

Roanoke County Schools

Three Year AHERA Reinspection

Clearbrook Elementary School

Facility 015

Reinspection Date:
April 15, 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 015 Clearbrook E/S
Building Main

SCHOOL BUILDINGS

Building Name	Location	Check here for the presence of:				No ACBM
		ACBM		Suspect ACBM		
		Friable	Non- friable	Friable	Non- friable	
015 Clearbrook E/S	5205 Franklin Road	X	X			

Inspector:

Name: Michael Baratta Signature  Date 6/17/08

Accreditation Number: 3303 000065 Agency: Virginia DPOR

Virginia Department of Education
Energy and Facilities Services

LEA Roanoke County Schools
School: 015 Clearbrook E/S
Building: Main

**DETERMINATION OF EACH
SAMPLE AREA**

Most of the floor tiles had been removed. One section remained near the gymnasium. We divided HA-13 into tile (13A) and mastic (13B) fractions and resampled them. H-K did not evaluate the ACT above the LIC in the North Hall. We designed the ACT HA-26 and took two (2) samples. Most of the TSI had been removed from the Boiler Room however several sections remained in the Upper Boiler Room. We took a sample of the pipe run TSI (25-1) and the fitting TSI (24-1) found in this room.

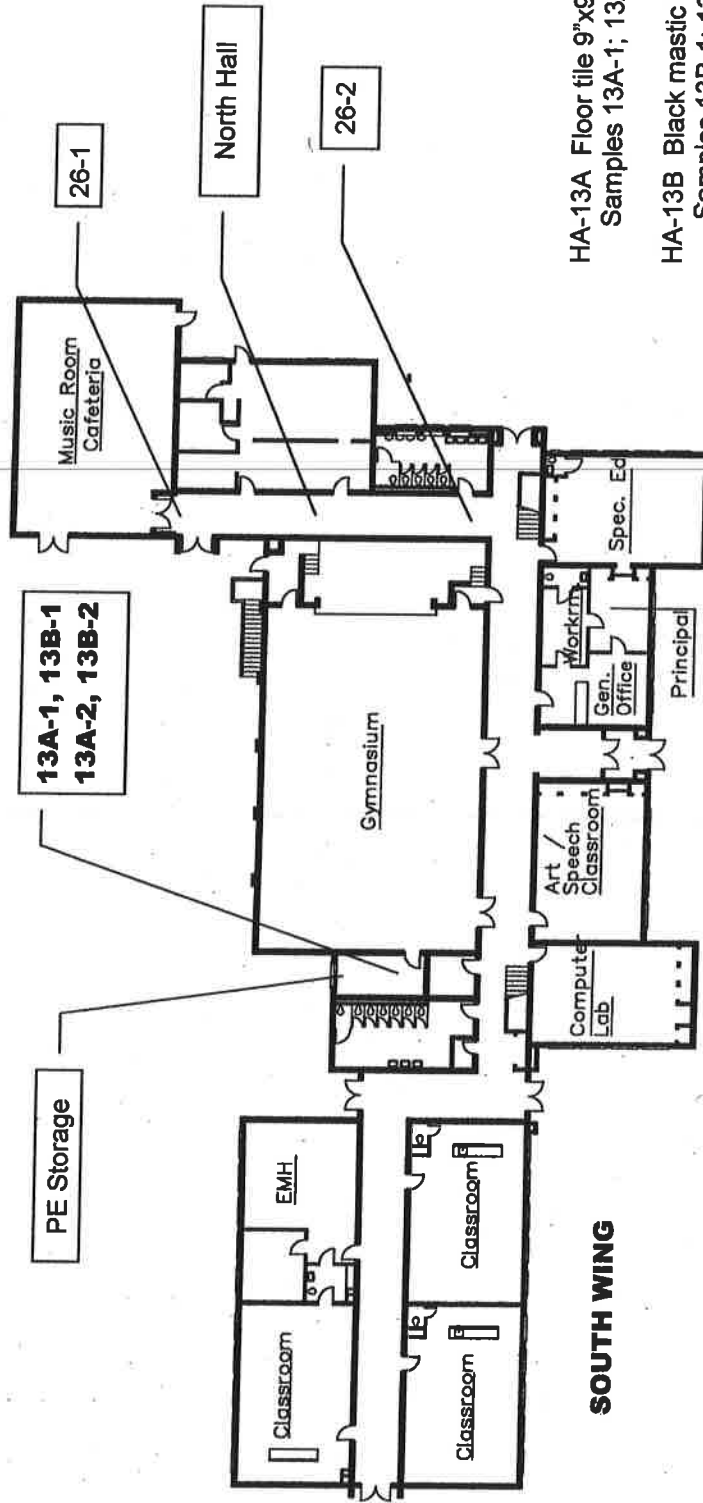
Homogeneous Area	Material	Sample Number	Location
HA-13A	Floor tile 9"x9", tan with red	13A-1	PE Storage Room
		13A-2	PE Storage Room
HA-13B	Black mastic for HA-13A	13B-1	PE Storage Room
		13B-2	PE Storage Room
HA-24	Pipe fitting TSI	24-1	ELL in Upper Boiler Room
HA-25	Pipe run TSI	25-1	Upper Boiler Room
HA-26	ACT 12" x12", perforated	26-1	W end of N hall, above LIC
		26-2	E end of N hall, above LIC

Name: Michael Baratta Signature  Date 6/17/09
Accreditation Number: 3303 000065 Agency: Virginia DPOR

AHERA Three Year Inspection
 Clearbrook Elementary School
 Roanoke County Schools
 Sample date

Building 015
 Sample Location
 L001
 April 15, 2008

Positive Samples in **Bold**



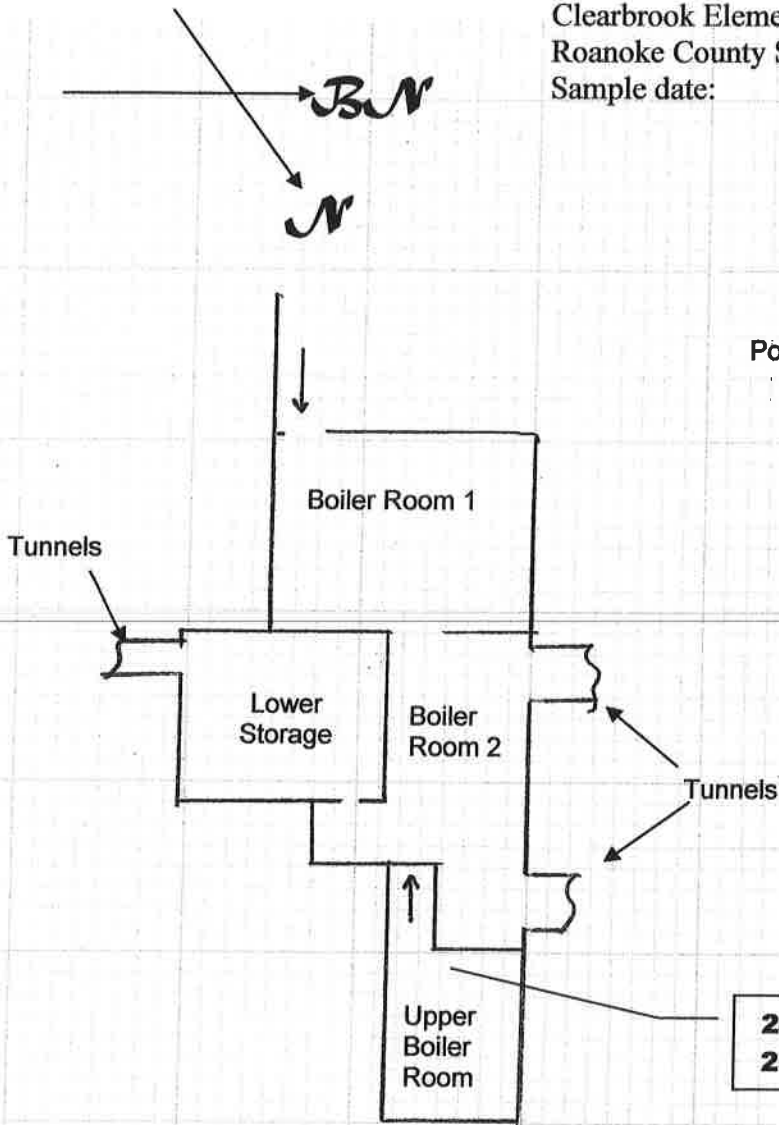
HA-13A Floor tile 9"x9", tan w/ red
 Samples 13A-1; 13A-2
 HA-13B Black mastic for HA-13A
 Samples 13B-1; 13B-2
 HA-26 ACT 12"x 12", perforated
 Samples 26-1; 26-2



● First Floor Plan ●

AHERA Three Year Inspection
Clearbrook Elementary /School
Roanoke County Schools
Sample date:

Building 015
Sample Locations
L001
April 15, 2008



Positive Samples in **Bold**

HA-24 Pipe Fitting TSI
Sample 24-1

HA-25 Pipe Run TSI
Sample 25-1

24-1
25-1

Virginia Department of Education
Energy and Facilities Services

LEA Roanoke County Schools
School: 015 Clearbrook E/S
Building: Main
Sample Date: April 15, 2008
Analysis Date: _____
Analysis Method: PLM EPA 6000/M4-82-020

BULK SAMPLE ANALYSIS

Homogeneous Area	Sample Number	Material	Asbestos Content
HA-13A	13A-1	Floor tile 9"x9", tan with red	6 % chrysotile
	13A-2		6 % chrysotile
HA-13B	13B-1	Black mastic for HA-13A	5 % chrysotile
	13B-2		4 % chrysotile
HA-24	24-1	Pipe fitting TSI	20 % chrysotile
HA-25	25-1	Pipe run TSI	43 % chrysotile
HA-26	26-1	ACT 12" x12", perforated	NAD
	26-2		NAD

NAD – no asbestos detected

See attached AmeriSci PLM Bulk Asbestos Report Number 108041427

Name: Michael Baratta Signature  Date 6/17/08
Accreditation Number: 3303 000065 Agency: Virginia DPOR



AmeriSci Richmond

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

April 16, 2008

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

RE: Baratta & Associates, Inc.
Job Number 108041427
P.O. #L001
L001; AHERA; Clearbrook E/S

Dear Michael Baratta:

Enclosed are the results for PLM asbestos analysis of the following Baratta & Associates, Inc. samples received at AmeriSci on Wednesday, April 16, 2008, for a 3 day turnaround:

13A-1, 13A-2, 13B-1, 13B-2, 24-1, 25-1, 26-1, 26-2

The 8 samples contained in zip lock bag were shipped to AmeriSci via Fed Ex 8621 8375 0356 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 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, appearing to read "T. Brian Keith". The signature is stylized and fluid, with a large initial "T" and "B".

T. Brian Keith
Asbestos Laboratory Director



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 04/16/08 **AmeriSci Job #** 108041427
Date Examined 04/16/08 **P.O. #**
Page 1 of 2
RE: L001; AHERA; Clearbrook E/S

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
13A-1 Location: Floor Tile	108041427-01	Yes	6 % (by CVES) by Donna M. Blackwell on 04/16/08
Analyst Description: Lt. Tan, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Chrysotile 6.0 % Other Material: Non-fibrous 94 %			
13A-2 Location: Floor Tile	108041427-02	Yes	6 % (by CVES) by Donna M. Blackwell on 04/16/08
Analyst Description: Lt. Tan, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Chrysotile 6.0 % Other Material: Non-fibrous 94 %			
13B-1 Location: Floor Tile Mastic	108041427-03	Yes	5 % (by CVES) by Donna M. Blackwell on 04/16/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 5.0 % Other Material: Non-fibrous 95 %			
13B-2 Location: Floor Tile Mastic	108041427-04	Yes	4 % (by CVES) by Donna M. Blackwell on 04/16/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 4.0 % Other Material: Non-fibrous 96 %			
24-1 Location: Floor Tile G Thermal System Insulation	108041427-05	Yes	20 % (by CVES) by Donna M. Blackwell on 04/16/08
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 20.0 % Other Material: Non-fibrous 80 %			

PLM Bulk Asbestos Report

L001; AHERA; Clearbrook E/S

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
25-1 Location: Pipe Thermal System Insulation	108041427-06	Yes	43 % (by CVES) by Donna M. Blackwell on 04/16/08
Analyst Description: Lt. Gray, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 43.0 % Other Material: Cellulose 35 %, Non-fibrous 22 %			
26-1 Location: Acoustic Ceiling Tile	108041427-07	No	NAD (by CVES) by Donna M. Blackwell on 04/16/08
Analyst Description: White/Brown, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 30 %, Fibrous glass 45 %, Non-fibrous 25 %			
26-2 Location: Acoustic Ceiling Tile	108041427-08	No	NAD (by CVES) by Donna M. Blackwell on 04/16/08
Analyst Description: White/Brown, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 30 %, Fibrous glass 45 %, Non-fibrous 25 %			

Reporting Notes:

Analyzed by: Donna M. Blackwell Donna M Blackwell Date 4/16/08
 *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: TBL

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

LEA Roanoke County Schools
School 015 Clearbrook E/S
Building Main

REASSESSMENT OF MATERIALS

Past or Initial Assessment: Hall-Kimbrell April 1989

Homogeneous Area	Description	Past Assessment Category #	Reassessment Category #
03	LP steam pipe TSI	1	6 ¹
04	LP steam fitting TSI	1	6 ¹
05	LIC	Non-ACM	-
06	Floor tile	5	removed
07	LP steam pipe TSI	1	6 ²
08	LP steam fitting TSI	1	6 ²
09	Domestic CW pipe TSI	1	6 ²
10	LIC	Non-ACM	-
11	Floor tile	5	removed
12	LIC	Non-ACM	-
13A	Floor tile 9"x9", tan with red	5	5
13B	Black mastic for HA-13A	5	5
14	Domestic CW fitting TSI	Non-ACM	-
15	Floor tile 9"x9", brown	5	removed
16	Floor tile 9"x9", white	Non-ACM	removed
17	Floor tile 9"x9", brown	5	removed
18	Floor tile 12"x12", white	5	removed
19	Floor tile 12"x12", tan	5	removed
20	Floor tile 9"x9", tan	5	removed
21	Boiler TSI	1	removed 1993
22	Boiler Room fitting TSI	Non-ACM	removed 1993
23	Boiler Room pipe TSI	1	removed 1993
24	Boiler Room fitting TSI	1	1 ³ & 6 ⁴
25	Boiler Room pipe TSI	1	1 ³ & 6 ⁴
26	ACT 12"x12", perforated	Not evaluated	Non-ACM

Notes:

- 1 Riser in Girls Restroom
- 2 Above lay-in ceiling tiles in South Wing
- 3 Category 1 in Tunnels
- 4 Category 6 in Upper Boiler Room

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

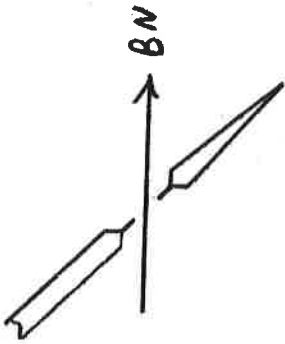
Signature



Date

6/17/09

Accreditation Number: 3303 000065 Agency: Virginia DPOR



LOCATION OF ACBMs




015 Clearbrook E/S

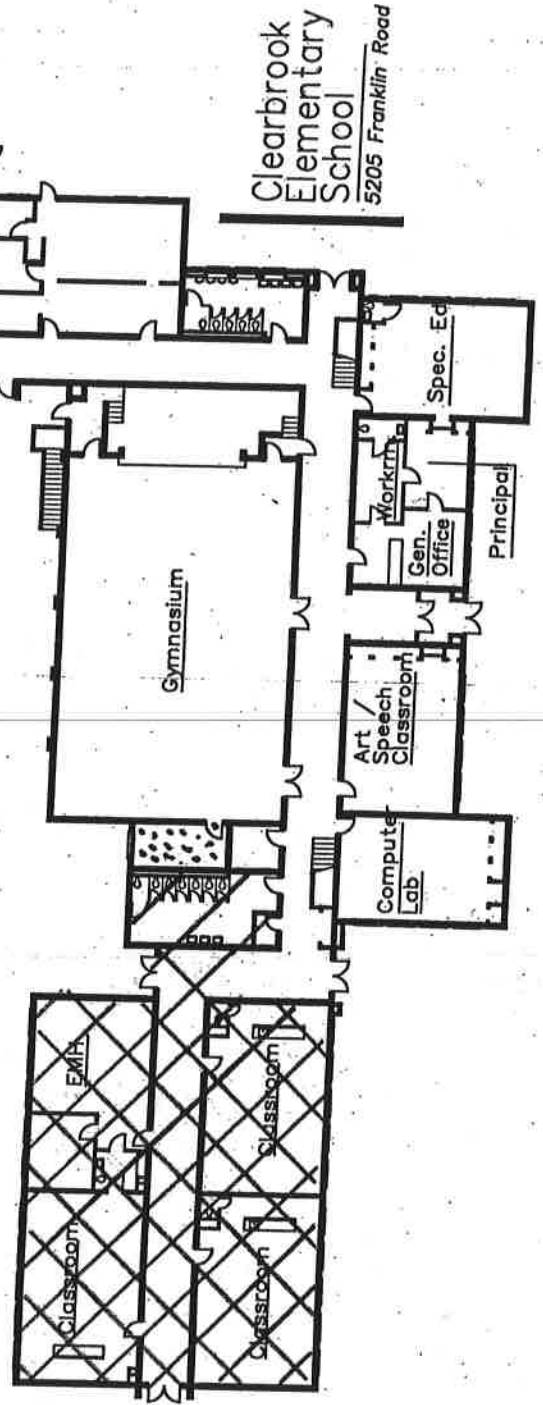
First Floor

Scale: see drawing

Reinspection Date: April 15, 2008

No ACMs on Second Floor

	Asbestos containing TSI
	Asbestos containing TSI above LIC panels
	Asbestos containing floor tiles and mastics



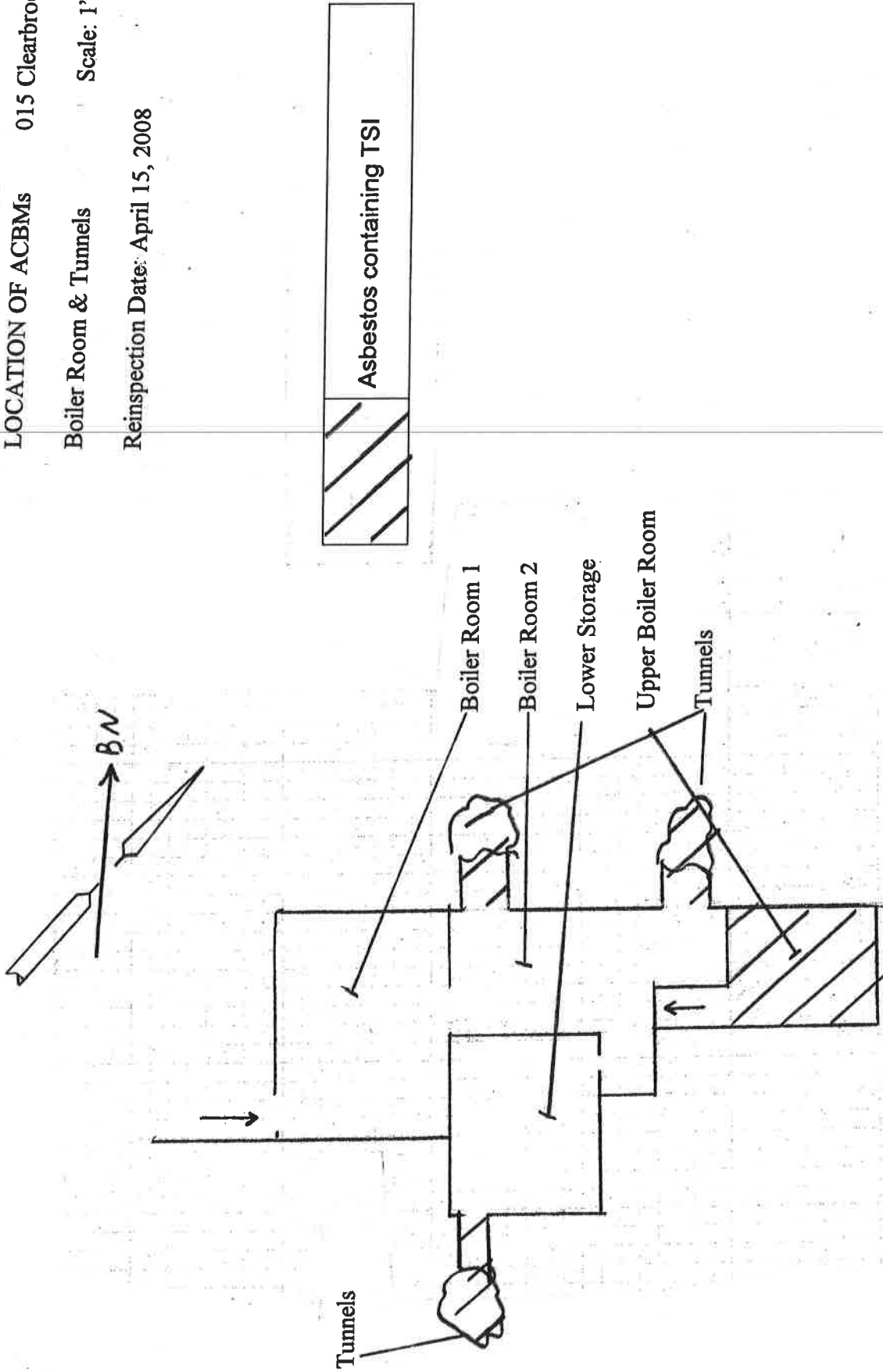
LOCATION OF ACBMs

015 Clearbrook E/S

Boiler Room & Tunnels

Scale: 1" = 16'

Reinspection Date: April 15, 2008



Virginia Department of Education
Energy and Facilities Service

LEA Roanoke County Schools
School 015 Clearbrook E/S
Building: Main

**RESPONSE ACTIONS
RECOMMENDED**

Total cost to remove \$126,000

Each Location	Recommended Response Actions	Scheduled To Begin	Scheduled To Be Completed	Est. Cost To Remove
Significantly damaged in TSI-ACM in tunnels	Seal Tunnels to restrict access. Place in O & M plan until other needs require the tunnels to be entered.	Not scheduled	Not scheduled	\$100,000
TSI-ACM in Upper Boiler Room	Place in O & M plan until other needs require the TSI-ACM to be removed.	Not scheduled	Not scheduled	\$2,000
TSI-ACM above LIC in West Wing	Place in O & M plan until other needs require the TSI-ACM to be removed.	Not scheduled	Not scheduled	\$20,000
TSI-ACM in Girls Room	Place in O & M plan until other needs require the TSI-ACM to be removed.	Not scheduled	Not scheduled	\$1,000
Floor tile and mastic in PE Storage Room	Monitor for any future damage. Place in O & M plan until other needs require the floor to be replaced.	Not scheduled	Not scheduled	\$3,000

Management Planner:

Name: Michael Baratta

Signature



Date

6/17/06

Accreditation Number: 3304 000208

Agency: Virginia DPOR

ASBESTOS MANAGEMENT, OPERATIONS AND MAINTENANCE PLAN

Clearbrook 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 15, 2008. It covers procedures to be followed in dealing with the Asbestos-Containing Materials (ACMs) found in the Clearbrook Elementary School.

SUMMARY

Asbestos containing thermal system insulation (TSI) in the following areas:

Tunnels
Upper Boiler Room
Girls Restroom
Above lay in ceiling panels in West Wing

Aside from the TSI found in the tunnels, these materials are in good condition and do not present a hazard to building occupants. The TSI in the tunnels are in very poor shape. Tunnel TSI will be addressed below.

The tan with red 9"x9" floor tiles (and associated black mastic) used in PE Storage Room are 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 this building.

ACM IDENTIFICATION

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

HA Number	Material	Location
03	LP steam pipe TSI	Girls Restroom
04	LP steam fitting TSI	
07	LP steam pipe TSI	Above lay-in ceiling tiles in South Wing
08	LP steam fitting TSI	
09	Domestic CW pipe TSI	

HA Number	Material	Location
13A	Floor tile 9"x9", tan with red	PE Storage
13B	Black mastic for HA-13A	
24	Boiler Room fitting TSI	Upper Boiler Room and in Tunnels
25	Boiler Room pipe TSI	

CARE OF THE TSI IN THE GIRLS' ROOM

This material is located in the corner of the girls' room. It is in good condition. Students should not stick pencils or other objects into the TSI.

An asbestos warning sticker should be applied to this pipe.

Any patching, repair work or removal should be carried out by a licensed asbestos abatement contractor.

CARE OF THE THERMAL SYSTEM INSULATION (TSI) ABOVE THE SOUTH WING CEILING

These ACMs are hidden by the lay-in ceiling panels. They do not present an asbestos related health hazard to those occupying the building.

Care should be taken when removing any ceiling tiles as TSI debris may have fallen on top of the tiles.

Should you notice any suspect asbestos containing debris in the ceiling space, please contact the Principal so an evaluation can be made and appropriate action taken.

CARE OF THE FLOOR TILES

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

This 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 THERMAL SYSTEM INSULATION (TSI) IN TUNNELS

These tunnels are located under the floor. The damaged ACMs in the tunnels do not present an asbestos related health hazard to those occupying the main floor.

The tunnels should be sealed off to prevent entry by unauthorized personnel. An asbestos warning label should also be applied to the tunnel entrances in the Boiler Room.

CARE OF THE THERMAL SYSTEM INSULATION (TSI) IN THE UPPER BOILER ROOM

Custodial and maintenance personnel should take care not to damage or disturb the TSI in the Upper Boiler Room while performing their duties. Any damaged areas should be report to the Principal so repairs can be made.

Any patching, repair work or removal should be carried out by a licensed asbestos abatement contractor.

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.

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

EXPIRES ON
07-31-2008

3600 West Broad Street, Richmond, VA 23230
Telephone: 1 (804) 367-8500

NUMBER
3303 000065

VIRGINIA ASBESTOS LICENSE
INSPECTOR LICENSE

MICHAEL BARATTA
1150 SHADY RUN RD
VINTON, VA 24179



Jay W. DeBoer
Jay W. DeBoer, Director

ALTERATION OF THIS DOCUMENT, USE AFTER EXPIRATION, OR USE BY PERSONS OR FIRMS OTHER THAN THOSE NAMED MAY RESULT IN CRIMINAL PROSECUTION UNDER THE CODE OF VIRGINIA.

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

EXPIRES ON
09-30-2008

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: 1 (804) 367-8500

NUMBER
3304 000208

VIRGINIA ASBESTOS LICENSE
MANAGEMENT PLANNER LICENSE

MICHAEL BARATTA
1150 SHADY RUN RD
VINTON, VA 24179



Jay W. DeBoer
Jay W. DeBoer, Director

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

EXPIRES ON
04-30-2009

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: 1 (804) 367-8500

NUMBER
3305 000206

VIRGINIA ASBESTOS LICENSE
PROJECT DESIGNER LICENSE

MICHAEL BARATTA
1150 SHADY RUN RD
VINTON, VA 24179



Jay W. DeBoer
Jay W. DeBoer, Director

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Asbestos Contractors and Labs

Asbestos Analytical Laboratory License

 BUSINESS NAME: AMERICA SCIENCE TEAM
RICHMOND INC

TRADING NAME: AMERISCI RICHMOND

 ADDRESS: 13635 GENITO ROAD
MIDLOTHIAN, VA 23112-0000

 BUSINESS TYPE: ASBESTOS ANALYTICAL
LABORATORY

LICENSE NO: 3333000266

INITIAL CERTIFICATION DATE: MARCH 25, 2004

EXPIRATION DATE: MARCH 31, 2009

Open Complaints: None

"Open Complaints" reflect only those complaints for which a departmental investigation has determined that sufficient evidence exists to establish probable cause of a violation of the law or regulations. Only those cases that have proceeded through an investigation to the adjudication stage are displayed.

State law prohibits the disclosure of any information about open complaints [Code of Virginia Section 54.1-108]. Members of the public may review official records and obtain copies only after a complaint investigation is closed.

Closed Complaints: None

"Closed Complaints" reflect complaints closed since 1990. Cases closed without disciplinary action are purged after three years in accordance with DPOR's record retention policy.

To inquire about any disciplinary actions prior to 1990, contact the department's Public Records Section at (804) 367-8583 or RecordsMat@dpor.virginia.gov