

Roanoke County Schools

Three Year AHERA Reinspection

Glenvar High School
Facility 003

Reinspection Date:
February 12, 2008

Baratta & Associates, Inc
PO Box High School 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 003 Glenvar High School
Building Main

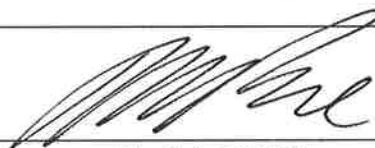
SCHOOL BUILDINGS

Building Name	Location	Check here for the presence of:				No ACBM
		ACBM		Suspect ACBM		
		Friable	Non- friable	Friable	Non- friable	
Glenvar High School	4549 Malus Drive Salem, VA 24153	X	X			

Inspector:

Name: Michael Baratta

Signature



Date

2/22/09

Accreditation Number: 3303 000065

Agency: Virginia DPOR

Virginia Department of Education
Energy and Facilities Services

LEA Roanoke County Schools
School: 003 Glenvar High School
Building: Main

**DETERMINATION OF EACH
SAMPLE AREA**

The asbestos containing boiler TSI (06) was reported removed in October 1991. Samples 06-1, 06-2 and 06-3 were taken to confirm this fact. Some inconsistency existed regarding the lay-in ceiling (LIC). H-K sample 24 (HA-03) tested positive but was not picked up in the H-K damage category or removal estimate documentation. This sample had come from the career center / guidance area. A gypsumboard ceiling now occupies that area. We designated the LIC in the SW corner of the second floor HA-11 and obtained two (2) samples of this product.

Homogeneous Area	Material	Sample Number	Location
06	Boiler TSI	06-1	Boiler 1, south side
		06-2	Boiler 2, south side
		06-3	Boiler 3, south side
10	Floor light wire insulation	10-1	Auditorium ceiling space
		10-2	Auditorium ceiling space
11	LIC 2' x 2', random pattern	11-1	208D, center of room
		11-2	208C, center of room

Name: Michael Baratta Signature  Date 2/22/09
Accreditation Number: 3303 000065 Agency: Virginia DPOR

First or
 Sample Locations
 L001
 February 12, 2008

AHERA Three Year Inspection
 Glenvar High School
 Roanoke County Schools
 Sample date

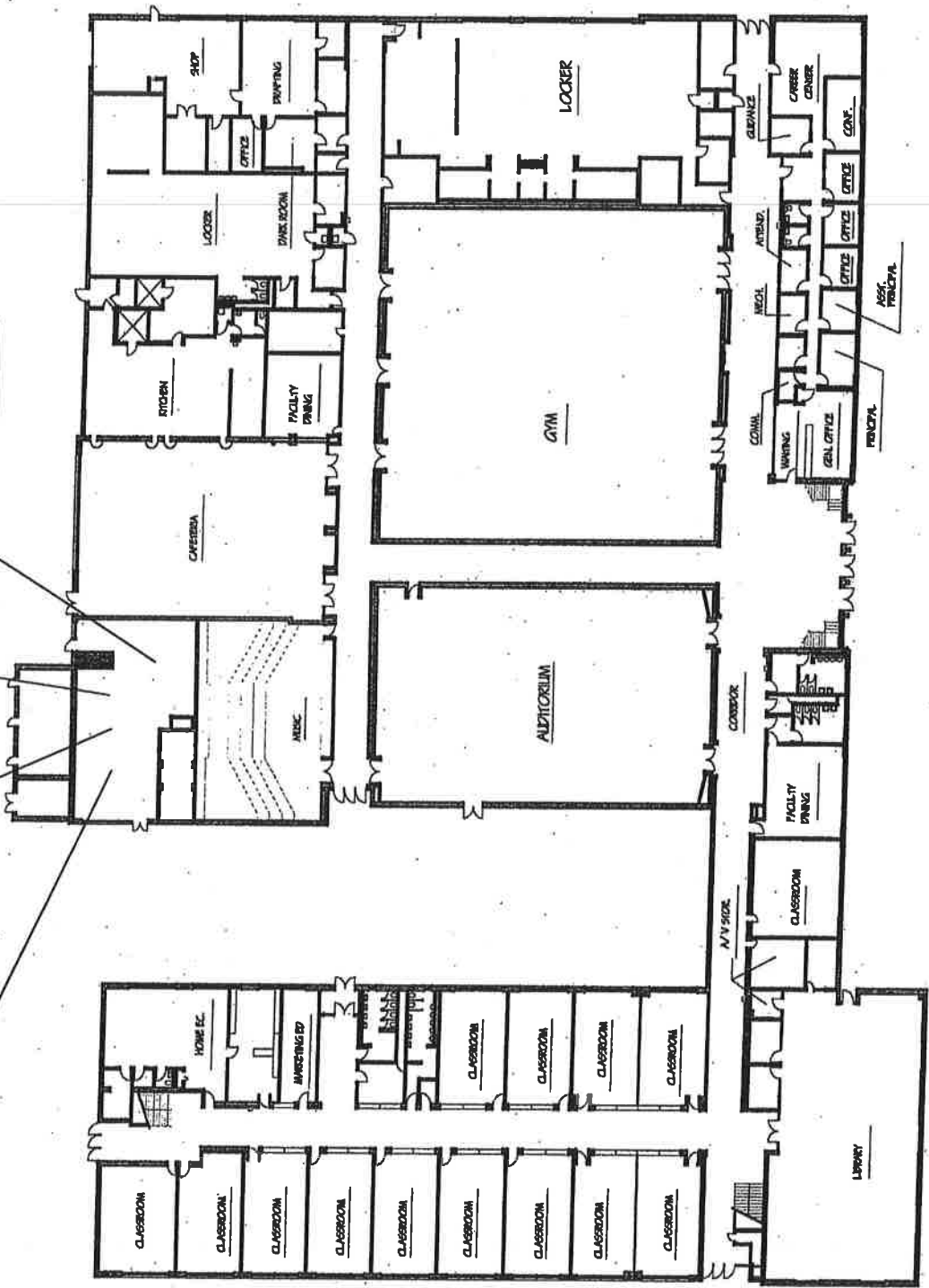
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Boiler Room

06-1

06-2

06-3



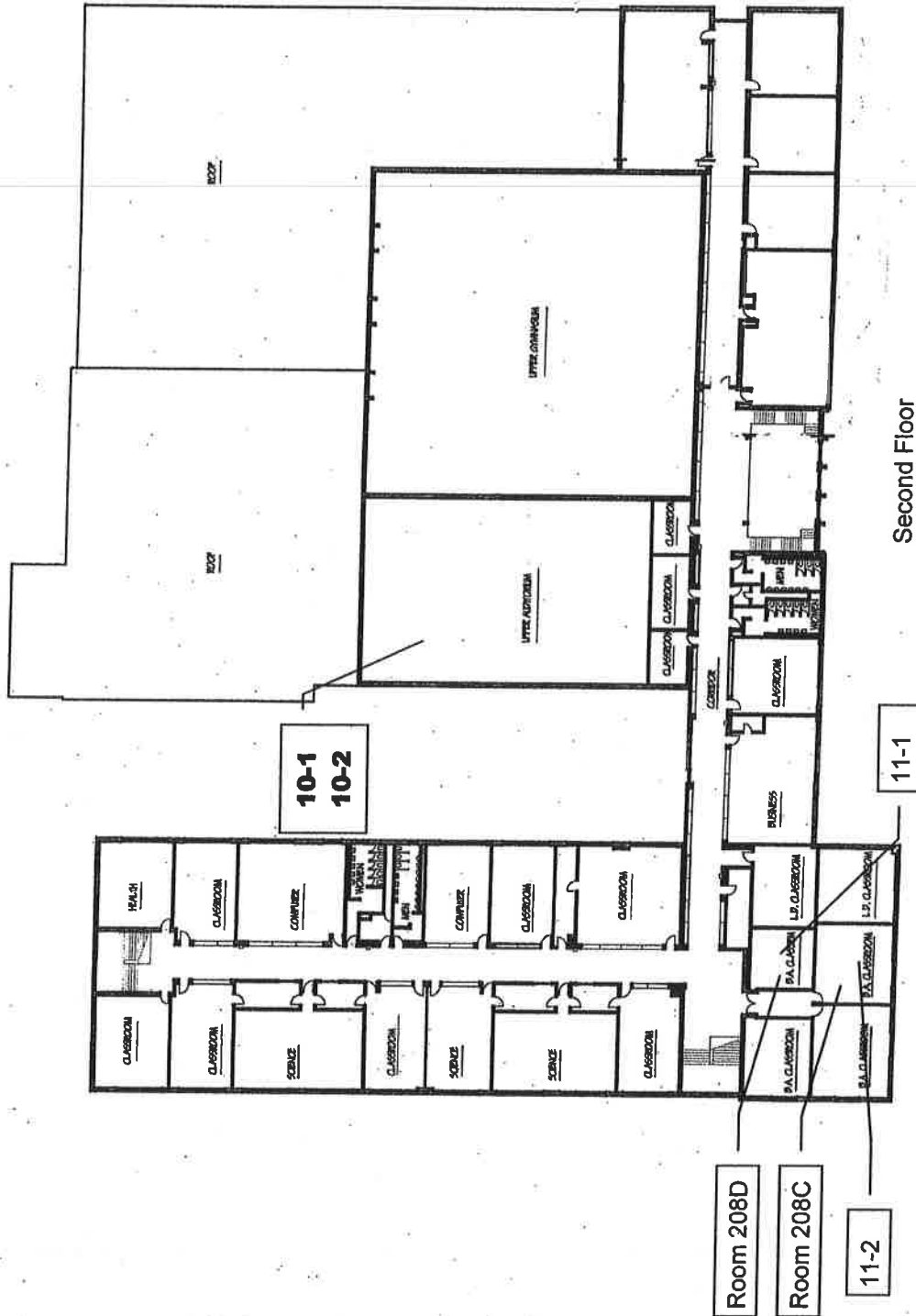
First Floor

*Positive Samples in **Bold**

HA-06 Boiler TSI
 Samples 06-1, 06-2, 06-3

AHERA Three Year Inspection
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 Roanoke County Schools
 Sample date:

Second Floor
 Sample Locations
 L001
 February 12, 2008



*Positive Samples in **Bold**

HA-10 Floor light wire insulation
 Samples 10-1, 10-2

HA 11 LIC 2'x2', random pattern
 Samples 11-1, 11-2

Virginia Department of Education
Energy and Facilities Services


LEA Roanoke County Schools
School: 003 Glenvar High School
Building: Main
Sample Date: February 12, 2008
Analysis Date: February 13, 2008
Analysis Method: PLM EPA 6000/M4-82-020

BULK SAMPLE ANALYSIS

Homogeneous Area	Sample Number	Material	Asbestos Content
06	06-1	Boiler TSI	NAD
	06-2		NAD
	06-3		NAD
10	10-1	Floor light wire insulation	75 % chrysotile
	10-2		70 % chrysotile
11	11-1	LIC 2' x 2', random pattern	NAD
	11-2		NAD

NAD – no asbestos detected

See attached AmeriSci PLM Bulk Asbestos Report Number 108021377

Name: Michael Baratta Signature  Date 2/22/09
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 02/13/08 AmeriSci Job # 108021377
Date Examined 02/13/08 P.O. #
Page 1 of 2
RE: L001; Glenvar High School; AHEM

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
06-1 Location: Boiler TSI	108021377-01	No	NAD (by CVES) by William M. Dunstan on 02/13/08
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 40 %, Non-fibrous 60 %			
06-2 Location: Boiler TSI	108021377-02	No	NAD (by CVES) by William M. Dunstan on 02/13/08
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 40 %, Non-fibrous 60 %			
06-3 Location: Boiler TSI	108021377-03	No	NAD (by CVES) by William M. Dunstan on 02/13/08
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 40 %, Non-fibrous 60 %			
10-1 Location: Wire Insulation	108021377-04	Yes	75 % (by CVES) by William M. Dunstan on 02/13/08
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 75.0 % Other Material: Cellulose 20 %, Non-fibrous 5 %			
10-2 Location: Wire Insulation	108021377-05	Yes	70 % (by CVES) by William M. Dunstan on 02/13/08
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 70.0 % Other Material: Fibrous glass 25 %, Non-fibrous 5 %			

See Reporting notes on last page

Client Name: Baratta & Associates, Inc.

PLM Bulk Asbestos Report

L001; Glenvar High School; AHEM

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
11-1 Location: Lay In Ceiling	108021377-06	No	NAD (by CVES) by William M. Dunstan on 02/13/08
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 30 %, Fibrous glass 40 %, Non-fibrous 30 %			
11-2 Location: Lay In Ceiling	108021377-07	No	NAD (by CVES) by William M. Dunstan on 02/13/08
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 30 %, Fibrous glass 40 %, Non-fibrous 30 %			

Reporting Notes:

Analyzed by: William M. Dunstan William M. Dunstan Date 2/12/08
 *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 003 Glenvar High School
Building Main**REASSESSMENT OF MATERIALS**Past or Initial Assessment: Hall-Kimbrell April 1989

Homogeneous Area	Description	Past Assessment Category #	Reassessment Category #
02	Hard plaster	Non-ACM	Non-ACM
03	Lay-in Ceiling Panels (LIC)	Non-ACM	Removed
04	Acoustical ceiling plaster (note 1)	1	6
05	Floor tile (note 2)	5	5
06	Boiler TSI	1	Removed Non-ACM
07	Breeching TSI	1	1
08	Fitting TSI	1	1
09	Tank TSI (note 3)	1	1
10	Stage lighting wire insulation	Not evaluated	5
11	LIC 2' x 2' random pattern	Not evaluated	Non-ACM

- Note 1 Acoustical ceiling plaster (04) is enclosed behind a gypsumboard enclosure
 Note 2 Carpeting had been placed atop of the asbestos containing floor tile in the auditorium
 Note 3 Tanks 1 & 2 have been removed from the Boiler Room. TSI-ACM remains on Tank 1

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 2/22/09Accreditation Number: 3303 000065 Agency: Virginia DPOR

LOCATION OF ACBMS

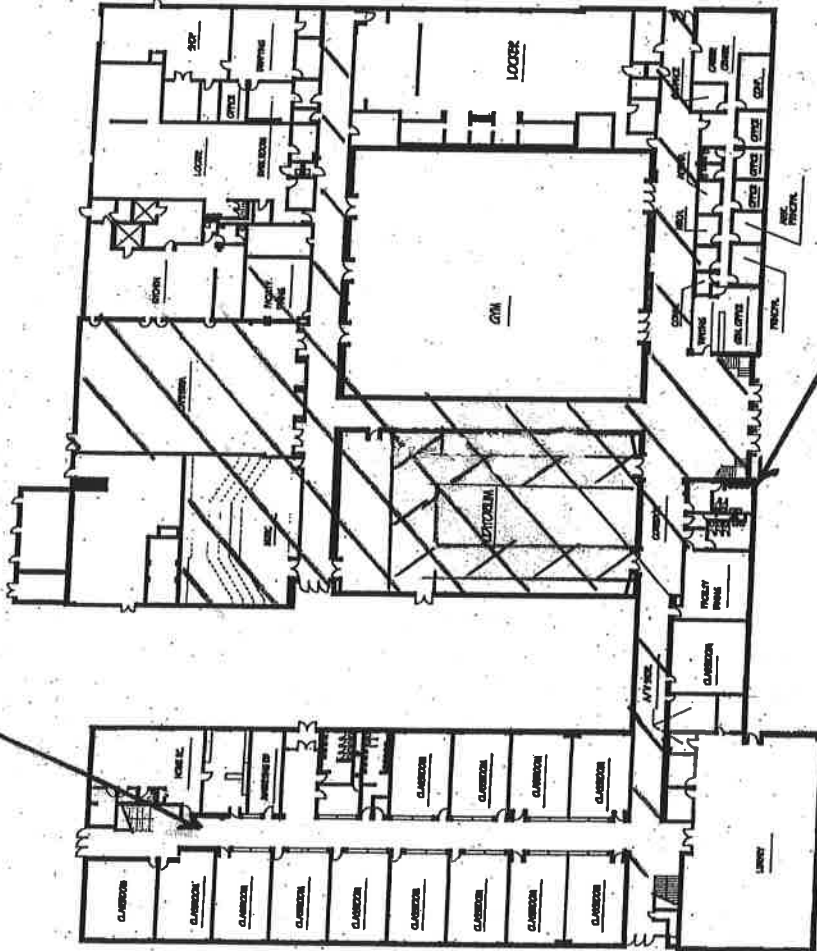
Glenvar High School

First Floor

Scale: see drawing

Reinspection Dates February 12, 2008

Asbestos containing ceiling plaster removed from this hall in Summer of 1999



Asbestos containing fitting muds in bathroom chases - Typical



First Floor

	Asbestos containing ceiling plaster enclosed with gypsumboard covering.
	Asbestos containing TSI on Fittings, Tank Number1 and Breeching
	Asbestos containing floor tiles under carpeting
	Asbestos containing insulation of stage lighting

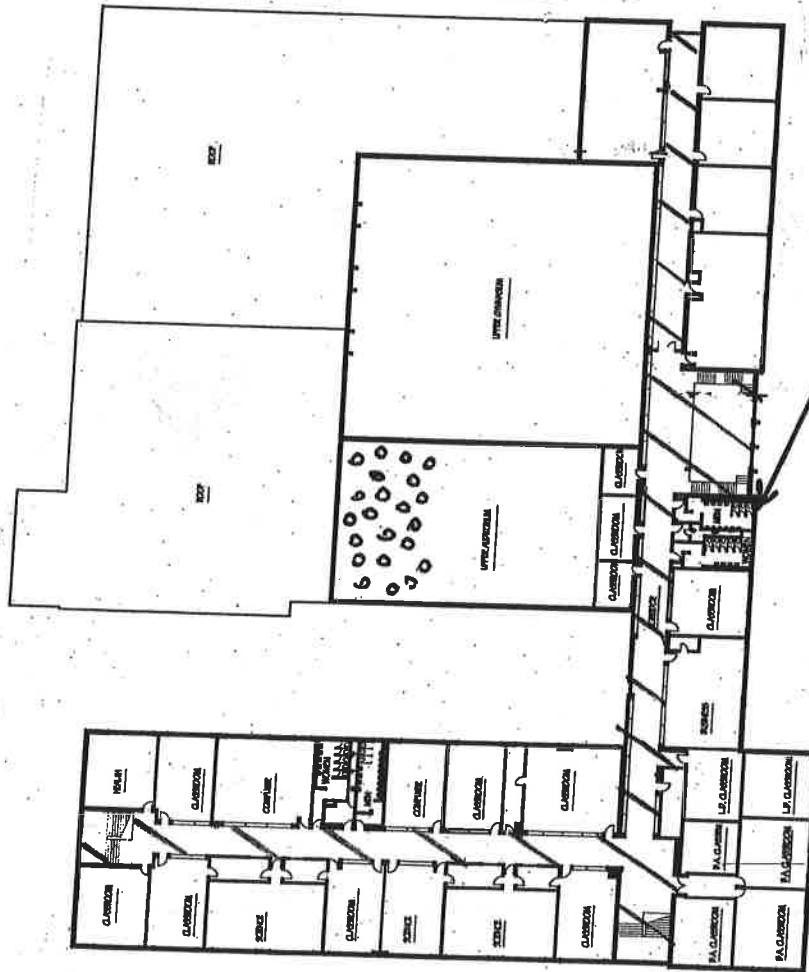
LOCATION OF ACBMs

Glenvar High School

Second floor

Scale: see drawing

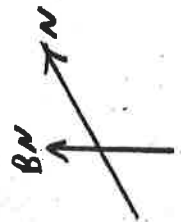
Reinspection Dates February 12, 2008



	Asbestos containing ceiling plaster enclosed with gypsumboard covering.
	Asbestos containing TSI on Fittings, Tank Number1 and Breeching
	Asbestos containing floor tiles under carpeting
	Asbestos containing insulation of stage lighting

Asbestos containing fitting muds in bathroom chases - Typical

Second Floor




Virginia Department of Education
Energy and Facilities Service

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School 003 Glenvar High School
Building: Main

**RESPONSE ACTIONS
RECOMMENDED**

Total cost to remove \$247,000

Each Location	Recommended Response Actions	Scheduled To Begin	Scheduled To Be Completed	Est. Cost To Remove
Surface Ceiling Material	Monitor for any future damage. Place in O & M plan until other needs require the ceiling to be removed	none	none	\$200,000
Floor Tile	Place in O & M plan until other needs require the floor tile to be removed	none	none	10,000
TSI in Boiler Room (Breeching, Fittings and Tank Number 1)	Repair damaged TSI. Place in O & M plan until other needs require the TSI be removed	none	none	\$25,000
Fitting TSI in Bathroom Chases	Remove damaged TSI	none	none	\$10,000
Stage Lighting	Place in O & M plan until other needs require the fixtures need to be removed	none	none	\$2,000

Management Planner:
Name: Michael Baratta Signature  Date 2/22/09
Accreditation Number: 3304 000208 Agency: Virginia DPOR

ASBESTOS MANAGEMENT, OPERATIONS AND MAINTENANCE PLAN

Glenvar High School

February 15, 2008

This Asbestos Management Operations and Maintenance Plan is based on the three year AHERA Reinspection performed by Baratta & Associates, Inc on February 12, 2008. It covers procedures to be followed in dealing with the Asbestos-Containing Materials (ACMs) found in the Glenvar High School.

SUMMARY

The thermal system insulation (TSI) on the boilers was removed in 1991. The asbestos containing TSI remains on the breeching, fittings and on Tank Number 1. Some of these items are damaged. We recommend the damaged areas be repaired.

Damaged fitting muds were observed in the bathroom chases. Access to these chases should be limited until the damaged fitting TSIs are abated.

The asbestos ceiling in the west wing on the first floor was removed in 1999. The balance of the asbestos containing ceiling plaster is enclosed with a gypsumboard covering. This protects it from further damage.

Asbestos floor tiles exist under the carpeting in the auditorium. The floor tiles are non-friable and protected by the carpet.

The wiring on some of the flood lights in the auditorium ceiling space were found to be insulated with asbestos containing insulation. Since few people enter this space, general asbestos hazard does not exist.

STAFF NOTIFICATION

The School should send all staff members a brief notice stating that Asbestos-Containing Materials exist in the building.

ACM IDENTIFICATION

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

Homogeneous Area	Material
04	Acoustical ceiling plaster
05	Floor tile under carpeting
07	Breeching TSI
08	Fitting TSI
09	Tank TSI
10	Stage lighting wire insulation

CARE OF THE ASBESTOS CONTAINING CEILING PLASTER

This plaster is found in some of the halls, auditorium and cafeteria areas. It has been enclosed behind a gypsumboard enclosure thus protecting it from physical damage. In its current condition, it does not present an asbestos related health hazard to the building occupants.

Do not drill or hang any objects from the ceiling.

If you notice the ceiling is water stained or shows other signs of damage, please report it to the principal so appropriate actions can be taken.

CARE OF THE THERMAL SYSTEM INSULATION (TSI)

Repair the damaged areas. Once the damaged areas are repaired, an asbestos warning sticker should be applied to the tanks and breeching. If any of the lagging experiences additional damage, the damaged TSI should be removed.

Damaged fitting muds were noted in the chases between the bathrooms. The chase accesses should be sealed. An asbestos warning sign should be placed on the door until the damaged fittings are removed.

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

CARE OF THE FLOOR TILES

These are found under the carpet in the auditorium. 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 floor tiles are tough, non-friable and covered with carpeting. It is doubtful anything other than forceful vandalism will deteriorate this material to a point where significant fiber release will occur.

CARE OF STAGE LIGHTING

The wiring on some of the stage lighting in the auditorium ceiling space is insulated with asbestos containing materials. Care should be taken not to dislodge any of the insulation while adjusting these lights.

When the light fixtures are retired, they should be disposed of as asbestos containing waste.

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.