AHERA - THREE YEAR REINSPECTION



MOUNT VERNON COMMUNITY SCHOOL

2601 COMMONWEALTH AVENUE
ALEXANDRIA, VIRGINIA 22305

ECS PROJECT NO. 47:11652-E4-16

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

SEPTEMBER 8, 2025

September 8, 2025

Mr. Lee Conroy
Alexandria City Public Schools
1716 North Beauregard Street
Alexandria, Virginia 22311

ECS Project No. 47:11652-E4-16

Reference: AHERA - Three Year Reinspection, Mount Vernon Community School, 2601 Commonwealth Avenue, Alexandria, Virginia

Dear Mr. Conroy:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced AHERA - Three Year Reinspection performed at Mount Vernon Community School located at 2601 Commonwealth Avenue in Alexandria, Virginia.

Previous asbestos surveys of the school identified asbestos-containing materials. ECS performed a walk through of the school to observe present conditions.

This report summarizes our observations, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:39012-EP and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Alexandria City Public Schools with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

Adam Truax
Environmental Senior Project Manager
atruax@ecslimited.com

Christopher J. Chapman, CIH
Director of Industrial Hygiene
cchapman@ecslimited.com

540-667-3750

804-767-5102

TABLE OF CONTENTS

PAGE

1.0 SITE DESCRIPTION 1

2.0 PURPOSE 1

3.0 METHODOLOGY 2

3.1 Asbestos Re-Inspection 2

4.0 RESULTS 2

4.1 Asbestos-Containing Materials 2

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS 3

5.1 Asbestos-Containing Materials 3

6.0 LIMITATIONS 3

TABLE OF APPENDICES

Appendix I: AHERA ACBM Tables

Appendix II: Floor Plan

Appendix III: Certifications/Licenses

Appendix IV: Previous Reports

1.0 SITE DESCRIPTION

The subject property consists of Mount Vernon Community School, a three-story brick school building located at 2601 Commonwealth Avenue in Alexandria, Virginia. The school was originally constructed in 1928 and has been improved with various renovations and additions in 1968, 1990, and 2003. Building finishes observed included concrete sub-floors, vinyl floor tiles, carpet, and/or ceramic tiles; the wall systems appeared to generally consist of concrete masonry unit (CMU) block walls, drywall wallboard, and/or ceramic wall tiles; and the ceiling systems appeared to generally consist of suspended drop ceilings with ceiling tiles and some plaster finishes.

At the time of re-inspection, an abatement was underway in various classroom on the first and second floors of the school building.

Based on a review of historical documentation, the following materials were previously identified as asbestos-containing and have since been abated.

- Asbestos-containing Black Pipe Bridging Mastic and associated Pipe Insulation from the exterior loading dock entryway in 2021. (ECS PROJECT NO. 47:11652- B)
- Asbestos-containing Black Mastic on Pipe Insulation within the former kitchen area in 2021. (ECS PROJECT NO. 47:11652-B2)
- Asbestos-containing Black Mastic under carpet and vinyl Floor Tile applications within Rooms 229, 219A, and 318, 12" x 12" vinyl Floor Tile and associated Black Mastic from 14 areas through the hallways on all three floors**, and Mudded Pipe Fittings in the janitor's closet on the first floor in 2024. (ECS PROJECT NO. 47:11652-B4)
- Asbestos-containing 12" x 12" vinyl Floor Tile and associated Mastic from Rooms 228, 230, 235, 317, 319, 320, 321, 322, and 323 in 2024. (ECS PROJECT NO. 47:11652-B5)
- Asbestos-containing 9" x 9" Floor Tile and associated Mastic under carpet in Room 123 in 2025. (ECS PROJECT NO. 47:11652-B6)

Note: Based on the age of the structure, it is likely that asbestos insulation on piping and ductwork is present and concealed behind solid walls/above solid ceilings. Floor tile and mastic is also assumed to be also present throughout the school, even in areas where it was reported abated (concealed under fixtures such as cabinets etc.).

** See Floor Plan appended to this report for Specific Locations.

2.0 PURPOSE

The purpose of this Asbestos Hazard Emergency Response Act (AHERA) three-year re-inspection of asbestos-containing materials was to assess previously identified asbestos-containing building materials (ACBMs) present on the subject property. The survey was performed on the interior areas of the subject building. This survey is intended to provide a supporting document for an AHERA management plan.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of Asbestos-Containing Materials (ACMs).

3.1 Asbestos Re-Inspection

The AHERA re-inspection survey was performed by David Stambaugh, a Virginia licensed asbestos inspector (license number 3303005057) who has received EPA-accredited training.

Before conducting the re-inspection, ECS reviewed existing inspection reports and then walked through areas where previously friable or non-friable ACBM were reported to be located, including assumed materials.

The scope of work for the re-inspection included the following items:

- Review the existing management plan to determine the areas requiring re-inspection.
- Visually reinspect and reassess the condition of known or assumed friable ACBM.
- Visually reinspect known or assumed non-friable ACBM and determine if it has become friable.
- Identify homogeneous areas that have changed conditions since previous re-inspections.
- Identify renovations or new materials that have been added to the building since the previous inspection.

At the request of the client, ECS did not sample additional materials during this inspection.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

- Friable ACMs are defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.
- Non-friable ACMs are defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
    - Category I non-friable ACM are listed as following: packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent (>1%) asbestos.
    - Category II non-friable ACM are listed as any material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Regulated Asbestos Containing Materials (RACM) are friable ACM or non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or has crumbled, been pulverized, or reduced to powder in the course of renovation and/or demolition operations.

A table of previously identified ACBM in the building is appended to this report.

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the AHERA - Three Year Reinspection, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

All known ACM materials identified in the plan that were observed by ECS during this survey were found to be in good to fair condition. No action is required. Continue management under the O&M Plan for the school.

If ACMs are to be removed, it is recommended that an industrial hygienist monitor the project. This involves collecting air samples from within and outside abatement work areas to monitor the asbestos abatement contractor's work practices over the course of the project. Only after the industrial hygienist has determined the identified ACMs have been removed should final clearance air samples be collected.

For any future renovation project, a more in-depth survey should be performed for asbestos in the path of construction. Where asbestos is found, an asbestos abatement plan should be prepared by an accredited professional as outlined in AHERA prior to performing any asbestos removal work.

The results of this survey should be added to the school's AHERA management plan.

6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of

services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

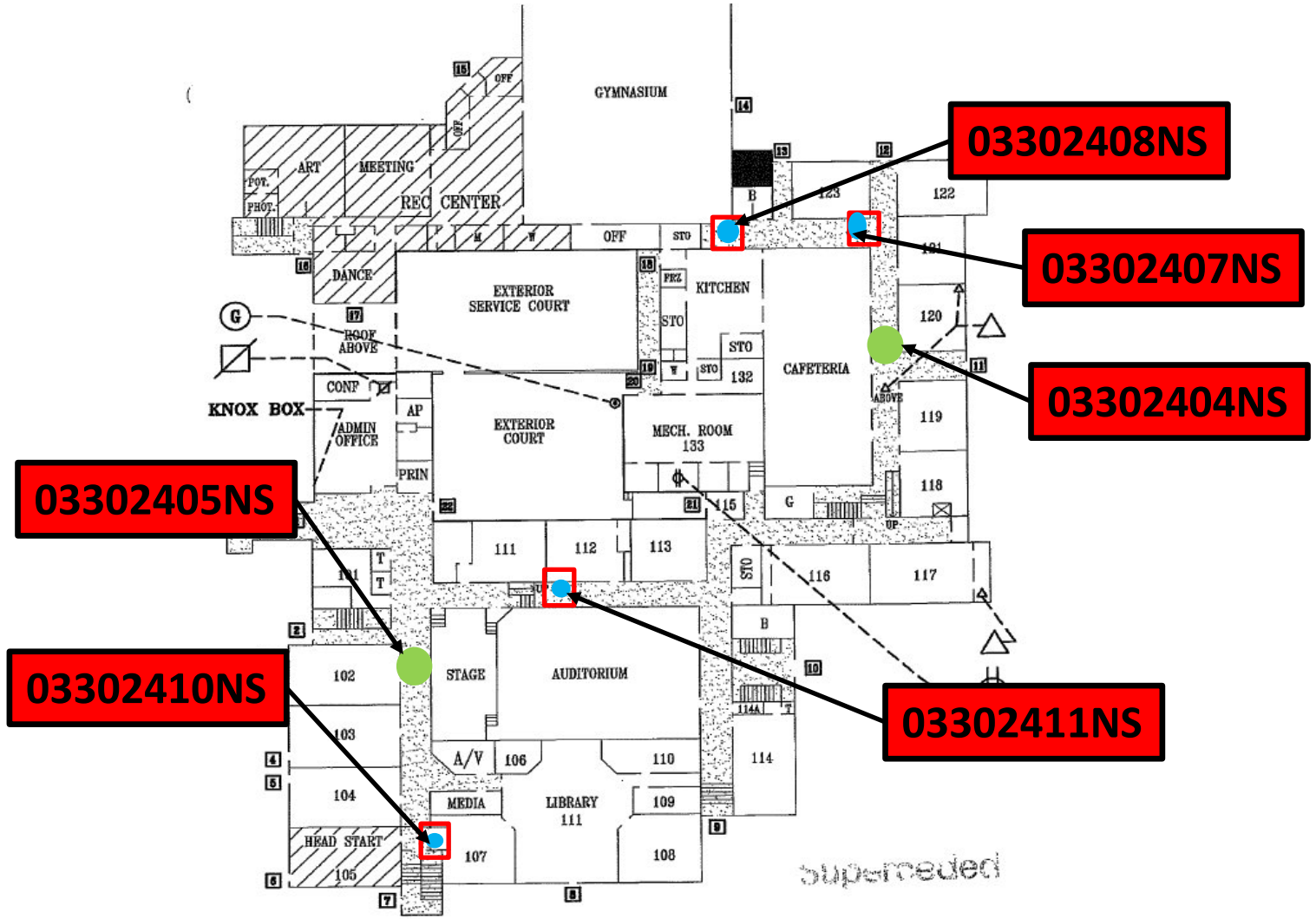
Appendix I: AHERA ACBM Tables

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS								
12" x 12" Beige Mottled Floor Tile and associated Mastic	Kitchen Staff Locker Room	NF	Intact	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Floor Tile: 5% Chrysotile Mastic: 5% Chrysotile
2" Pipe Insulation	Hallway between Classrooms 118-123	F	Intact	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		5% Chrysotile
9" x 9" Black Floor Tiles and associated Mastic	2nd Floor Storage by Janitor's Closet	NF	Intact	This material was observed in Janitors Closet near Room 221.	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
Surfacing Trowel on Ceiling	2nd Floor Storage by Janitor's Closet	F	Intact	Observed in Mechanical Room near 221	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
Brown Ceiling Mastic	Cafeteria on the 1st Floor (Observed above Drop Ceiling Tiles throughout the Building)	NF	Intact	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
Black Pipe Mastic	Hallway of Rooms 223-225 (Observed above Drop Ceiling Tile throughout the Building)	NF	Intact	This material was observed on fiberglass insulation. This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
Fire Doors	Hallways	F	Intact	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS THAT WERE NOT IDENTIFIED/OBSERVED BY ECS IN JUNE 30, 2025 SURVEY								
12" x 12" Olive Mottled Floor Tile and associated Mastic	Custodial Office/Mechanical Room in Boiler Room	NF	Intact	Area was inaccessable at the time of survey. Observed in Room 227.	30-Jun-25	Maintain in O & M Plan		Floor Tile: 3% Chrysotile Mastic: 3% Chrysotile
Orange Floor Tiles and associated Black and Yellow Mastic	Classroom 123 at Sink Cabinet (under 12" x 12" Floor Tile	NF	N/A	Abated in ECS Project No. 47:11652-B6	30-Jun-25	Remove from O & M Plan pending verification of removal		Verify Removal
Brown/Black Floor Tile and associated Black and Yellow Carpet Mastic	Classroom 123 (under Carpet)	NF	N/A	Abated in ECS Project No. 47:11652-B6	30-Jun-25	Remove from O & M Plan pending verification of removal		Verify Removal
Brown/Black Floor Tile and associated Black and Yellow Carpet Mastic	Classroom 123 (under Carpet)	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Black Mastic: 5:Chrysotile
Green Floor Tile and associated Black and Brown Carpet Mastic	Classroom 117 (under Carpet)	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain from O & M Plan		Floor Tile: 5% Chrysotile
Black Mastic associated with 12" x 12" Tan Mottled Vinyl Floor Tile	Kitchen Manager Office	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		10% Chrysotile
Tan Interior Door Caulk	Kitchen	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		5% Chrysotile
Unknown Size Gray/Beige Vinyl Floor Tile (Layer 3) and associated Black Mastic	Cafeteria	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Floor Tile: 5% Chyrsotile Mastic: 8% Chrysotile
White Plaster	AHU Room Across from Room 233	RACM	N/A	The material may be present above drop ceilings	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
TSI-Mudded Elbows (2"OD)	Hallway of Rooms 111-117 (Observed above Drop Ceiling Tile in the Book Room)	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
9" x 9" Maroon With Black Floor Tiles and associated Mastic	Wings Book Room	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
Black Mastic on Pipe and Foil Wrap Duct (on Fiberglass Pipe and Duct Insulation)	Above Drop Ceiling Tile in Room 112 on 1st Floor	NF	N/A	This material may be present in inaccessable areas.	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
Foil Wrap Duct (on Fiberglass Pipe and Duct Insulation)	Above Drop Ceiling Tile in Room 112 on 1st Floor	NF	N/A	This material may be present in inaccessable areas.	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
Black Mastic on Fiberglass Pipe	By Main Office on 1st Floor/Room 225	NF	N/A	This material may be present in inaccessable areas.	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results

Tan Pipe Mastic on 6" Pipe	Cafeteria	NF	N/A	This material may be present in inaccessable areas.	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
12" x 12" Light Green Floor Tiles and associated Mastic	Cafeteria	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
White Plaster on Steel Support Beam	Room 209 and throughout 2nd Floor	NF	N/A	This material may be present in inaccessable areas.	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
12" x 12" Tan Floor Tiles and associated Mastic	Book Room	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
9" x 9" Brown Floor Tiles and associated Mastic	Storage Room across from Boiler Room	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
Black Mastic on Fiberglass Duct Wrap	Room 224 Ceiling Cavity	NF	N/A	Area was in accessable area at the time of survey. Assumted to be present.	30-Jun-25	Maintain in O & M Plan		10% Chrysotile
9" x 9" Green Floor Tile	Room 112	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		5% Chrysotile
Black Mastic associated with 9" x 9" Orange Floor Tile	Room 221	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
TSI-Mudded Elbows (4"OD)	Janitor's Closet near Room 105 and Storage next to Closet on 1st Floor	NF	N/A	This material may be present in other areas	30-Jun-25	Maintain in O & M Plan		Verify Analytical Results
MATERIALS ASSUMED TO CONTAIN ASBESTOS								
Interior Pipe Wrap associated with Water Fountains and Radiators	Throughout the Building	NF	Intact	PACM until tested	30-Jun-25	Maintain in O & M Plan		Sampling if encountered/uncovered
Interior Door Caulk	Throughout the Building	NF	Intact	PACM until tested	1-Jul-25	Maintain in O & M Plan		Sampling if this material is to be disturbed
Ceiling Plaster	Auditorium on 1st Floor	F	Intact	PACM until tested	2-Jul-25	Maintain in O & M Plan		Sampling if encountered/uncovered
Thermal System Insulation (TSI)	Pipes within chases behind walls and above ceiling throughout the building	F	Intact	PACM until tested	3-Jul-25	Add to O & M Plan		Sampling if encountered/uncovered
Pipe Flange Gaskets	Throughout the Building	Unknown	Intact	PACM until tested	4-Jul-25	Add to O & M Plan		Sampling if encountered/uncovered
Electrical Panels: Transite Components	Mechanical Rooms	NF	Intact	PACM until tested	5-Jul-25	Add to O & M Plan		Sampling if encountered/uncovered
Floor Felt under Wood Flooring	Stage or other Areas of the Building	NF	Intact	PACM until tested	6-Jul-25	Add to O & M Plan		Sampling if encountered/uncovered
Mirror Mastic	Bathrooms	NF	Intact	PACM until tested	7-Jul-25	Add to O & M Plan		Sampling if encountered/uncovered
Chalkboards and associated Mastics	Classrooms	NF	Intact	PACM until tested	8-Jul-25	Add to O & M Plan		Sampling if encountered/uncovered
Waterproofing Membranes/Mastics	Behind Interior Finishes, Exterior Veneer and/or Subgrade Walls, and Under Ceramic Flooring	NF	Intact	PACM until tested	9-Jul-25	Add to O & M Plan		Sampling if encountered/uncovered
Asphalt-Based Roofing Materials and Caulks/Sealants	Roof	NF	Intact	PACM until tested	10-Jul-25	Add to O & M Plan		Sampling if encountered/uncovered

Notes: F = Friable; NF = Non-Friable; PACM = Presumed Asbestos Containing Material; O & M Plan = Operations and Maintenance Plan; NAD = No Asbestos Detected.

Appendix II: Floor Plan



ACPS Mount Vernon Community School
2601 Commonwealth Ave
Alexandria, VA 22301

First Floor Sample Locations

Regulated Work Area

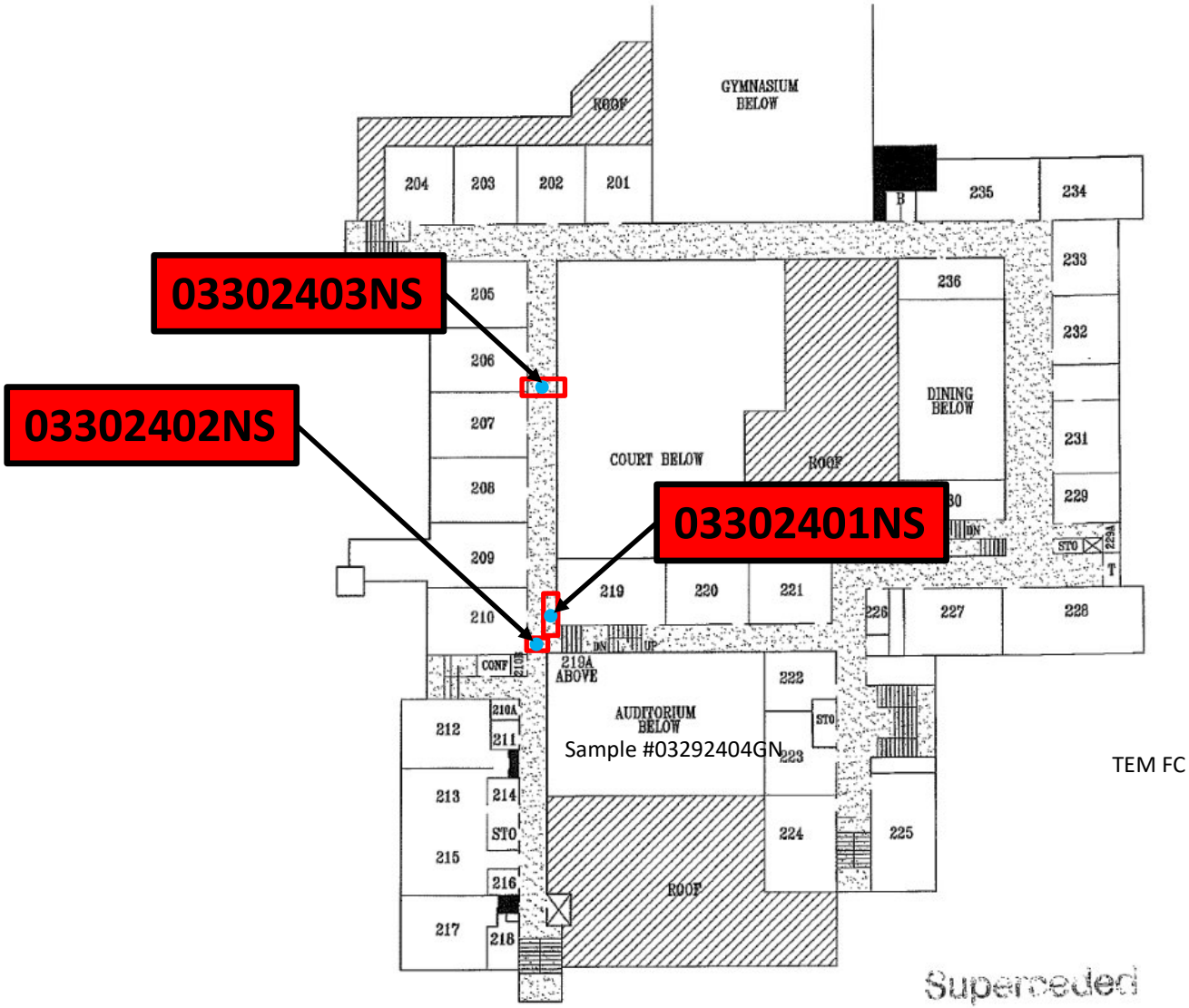
PCM Final Clearance Air Sample Location

PCM Daily Air Sample Location

Scale: NTS

Project # 47:11652-B4

3/30/24



ACPS Mount Vernon Community School
2601 Commonwealth Ave
Alexandria, VA 22301

Second Floor Sampling Locations

Regulated Work Area

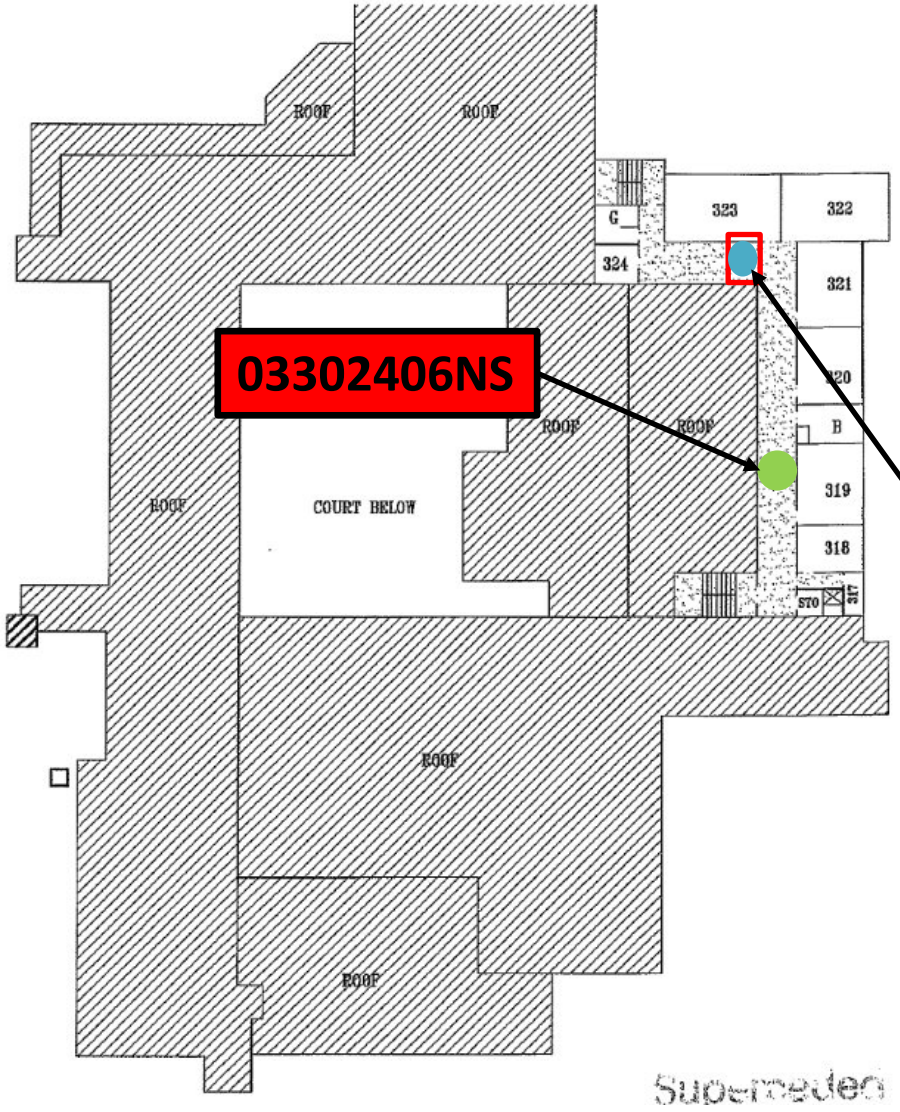
PCM Final Clearance Air Sample

PCM Daily Air Sample Location

Scale: NTS

Project # 47:11652-B4

3/30/24



ACPS Mount Vernon Community School
2601 Commonwealth Ave
Alexandria, VA 22301

Third Floor Sample Locations

Regulated Work Area

PCM Final Clearance Air Sample Location

PCM Daily Air Sample Location

Scale: NTS

Project # 47:11652-B4

3/30/24

Appendix III: Certifications/ Licenses

DPOR License Lookup License Number 3303005057

License Details

Name	STAMBAUGH, DAVID
License Number	3303005057
License Description	Asbestos Inspector License
Rank	Asbestos Inspector
Address	CLEAR BROOK, VA 22624
Initial Certification Date	2023-12-19
Expiration Date	2025-12-31

The data located on this website are not the public records of the Department of Professional and Occupational Regulation (DPOR). All public records are physically located at DPOR's Public Records Section: 9960 Mayland Drive, Suite 400, Richmond, VA 23233. While DPOR works to ensure the accuracy of the data provided online, the data available on these pages are updated routinely but may not be up to date at all times (due to document processing delays, technical maintenance, etc.).

DPOR assumes no liability for any errors, omissions, or inaccuracies in the information provided or for any reliance on data provided online. While DPOR has attempted to ensure that the data contained herein are accurate and reflect the status of its regulants, DPOR makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability of this data. If discrepancies or errors are discovered, please inform DPOR so that appropriate action may be taken.

DPOR License Lookup build 1,524 (built 2025-04-18 11:59:26).

DPOR License Lookup License Number 3304001722

License Details

Name	TRUAX, ADAM MICHAEL
License Number	3304001722
License Description	Asbestos Management Planner License
Rank	Asbestos Management Planner
Address	RANSON, WV 25438
Initial Certification Date	2023-03-30
Expiration Date	2026-03-31

The data located on this website are not the public records of the Department of Professional and Occupational Regulation (DPOR). All public records are physically located at DPOR's Public Records Section: 9960 Mayland Drive, Suite 400, Richmond, VA 23233. While DPOR works to ensure the accuracy of the data provided online, the data available on these pages are updated routinely but may not be up to date at all times (due to document processing delays, technical maintenance, etc.).

DPOR assumes no liability for any errors, omissions, or inaccuracies in the information provided or for any reliance on data provided online. While DPOR has attempted to ensure that the data contained herein are accurate and reflect the status of its regulants, DPOR makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability of this data. If discrepancies or errors are discovered, please inform DPOR so that appropriate action may be taken.

DPOR License Lookup build 1,524 (built 2025-04-18 11:59:26).

Appendix IV: Previous Reports

AHERA ASBESTOS-CONTAINING MATERIALS SURVEY



MOUNT VERNON COMMUNITY SCHOOL

2601 COMMONWEALTH AVE
ALEXANDRIA, VIRGINIA 22301

ECS PROJECT NO. 47:11652-E2

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

APRIL 26, 2022

April 26, 2022

Mr. John Contreras
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
john.contreras@acps.k12.va.us

ECS Project No. 47:11652-E2

Reference: AHERA Asbestos-Containing Materials Survey, Mount Vernon Community School, 2601 Commonwealth Ave, Alexandria, Virginia

Dear Mr. Contreras:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced AHERA Asbestos-Containing Materials Survey performed at Mount Vernon Community School located at 2601 Commonwealth Ave in Alexandria, Virginia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:16069-EP and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Alexandria City Public Schools with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

Zach Harrell
Environmental Technician
Zharrell@ecslimited.com
571-334-3350

Christopher J. Chapman, CIH
Director of Industrial Hygiene
cchapman@ecslimited.com
804-258-2101

EXECUTIVE SUMMARY

The subject property consists of Mount Vernon Community School, a three-story brick school building located at 2601 Commonwealth Avenue in Alexandria, Virginia. The school was originally constructed in 1928 and has been improved with various renovations and additions in 1968, 1990, and 2003. Building finishes observed included concrete sub-floors, vinyl floor tiles, carpet, and/or ceramic tiles; the wall systems appeared to generally consist of concrete masonry unit (CMU) block walls, drywall wallboard, and/or ceramic wall tiles; and the ceiling systems appeared to generally consist of suspended drop ceilings with ceiling tiles and some plaster finishes.

The purpose of the survey was to determine if asbestos-containing building materials (ACBMs) present on the subject property. The survey was performed within interior areas of the school building excluding the roofs and exterior materials. This survey is intended to provide a supporting document for the Asbestos Hazard Emergency Response Act (AHERA) management plan for the school.

Based on the laboratory analysis of the bulk samples collected during the most recent survey, the following materials were reported to contain asbestos:

- 2' x 4' White Pinhole Ceiling Tile present in Rooms 101-105, the stairwell outside of room 105, 201-217, as well as used in select spots throughout the second floor hallways (map of general locations is attached)
- Gray Leveling Compound present in Cafeteria and Hall by Room 209

Based on a review of historical documentation the following materials were previously identified as asbestos-containing and ECS does not have records of them being abated.

- Black Mudded Pipe Elbows above drop ceilings
- Black Mastic on Fiberglass Duct Wrap above drop ceilings
- Mudded Pipe Elbows present in custodial closets and above drop ceilings
- Brown Ceiling Mastic above drop ceilings
- Various vinyl floor tiles and there associated mastics may be concealed under newer floor applications

Based on a review of historical documentation the following materials were previously identified as asbestos-containing and have since been abated.

- Black mastic on pipe insulation within the former kitchen area was abated in 2021 (reference ECS PROJECT NO. 47:11652-B2).
- Asbestos containing black pipe bridging mastic and associated pipe insulation were abated from the exterior loading dock entryway in 2021 (reference ECS PROJECT NO. 47:11652- B).

Recommendations regarding the removal and disposal of the ACMs identified by ECS can be found in Section 5.0 of this report. The executive summary is an integral portion of this report, however, ECS recommends the report be read in its entirety.

TABLE OF CONTENTS

PAGE

1.0 SITE DESCRIPTION 1

2.0 PURPOSE 1

3.0 METHODOLOGY 1

3.1 Asbestos-Containing Materials 1

4.0 RESULTS 2

4.1 Asbestos-Containing Materials 2

4.2 Suspect or Assumed Asbestos-Containing Materials 12

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS 13

5.1 Asbestos-Containing Materials 13

6.0 LIMITATIONS 14

TABLE OF APPENDICES

Appendix I: Figures

Appendix II: Site Photographs

Appendix III: Asbestos Bulk Sample Results

Appendix IV: Laboratory Report(s)

Appendix V: Certifications/Licenses

Appendix VI: AHERA ACBM and Suspect ACBM Categories Document

Appendix VII: Previous Reports

1.0 SITE DESCRIPTION

The subject property consists of Mount Vernon Community School, a three-story brick school building located at 2601 Commonwealth Avenue in Alexandria, Virginia. The school was originally constructed in 1928 and has been improved with various renovations and additions in 1968, 1990, and 2003. Building finishes observed included concrete sub-floors, vinyl floor tiles, carpet, and/or ceramic tiles; the wall systems appeared to generally consist of concrete masonry unit (CMU) block walls, drywall wallboard, and/or ceramic wall tiles; and the ceiling systems appeared to generally consist of suspended drop ceilings with ceiling tiles and some plaster finishes.

2.0 PURPOSE

The purpose of this Asbestos Hazard Emergency Response Act (AHERA) asbestos re-inspection was to determine if asbestos-containing building materials (ACBMs) are present on the subject building that had not been previously identified, to account for the ACMs previously identified with regards to their general location and condition, and finally to generally identify if any of the previously noted ACMs had been abated. The survey was performed within interior areas of the subject building. Exterior and roofing materials were not included in this survey. This survey is intended to provide a supporting document for the AHERA management plan for the school.

US EPA AHERA regulations requires all public and private schools to survey school buildings and associated support school buildings for ACMs, and to prepare management plans for identified ACMs.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of Asbestos-Containing Materials (ACMs).

3.1 Asbestos-Containing Materials

The non-invasive asbestos survey was performed by an asbestos inspector who has received EPA accredited training and are licensed by the Commonwealth of Virginia. Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were submitted to Scientific Analytical Institute, Inc. (SAI) in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. Scientific Analytical Institute, Inc. (SAI) is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis by currently approved EPA methodology by PLM.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Occupied classrooms, select inaccessible closets, and roofs were inaccessible during the survey. It is important to note that due to the COVID-19 pandemic, extra precautions were taken in order to avoid contact with students and staff, increasing the number of areas deemed inaccessible. Unidentified suspect ACMs may be located in these and/or other inaccessible areas.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

- Friable ACMs are defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.
- Non-friable ACMs are defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
    - Category I non-friable ACM are listed as following: packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent (>1%) asbestos.
    - Category II non-friable ACM are listed as any material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Regulated Asbestos Containing Materials (RACM) are friable ACM or non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or has crumbled, been pulverized, or reduced to powder in the course of renovation and/or demolition operations.

AHERA requires identified asbestos-containing building materials (ACBMs) to be categorized by a trained AHERA inspector into the following categories:

• (1) Damaged or significantly damaged thermal system insulation 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.

Definitions for the above-referenced categories can be found in the Appendices.

Scientific Analytical Institute, Inc. (SAI) submitted a signed final laboratory report to ECS on February 7, 2022. Two of the bulk samples submitted for analysis were reported to contain asbestos in detectable concentrations. These materials are summarized below. A complete list of the sampled materials submitted for analysis and sample locations are located in the Appendix of this report. Additional details regarding the overall locations of the materials identified as asbestos-containing are provided further in the report. Photographs of collected samples reported as asbestos-containing are also located in the Appendix of this report.

In total, 38 bulk samples from homogeneous areas were submitted to the laboratory of which 64 layers were analyzed.

Summary of Asbestos-Containing Materials Identified during the most recent survey;

Location	Material Description	Analytical Result	EPA Category	AHERA Category
Cafeteria and Hall by Room 209	Gray Leveling Compound	2% Chrysotile	Category II Non-Friable	Not Applicable
Room 103 and Other Areas	2' x 4' White Pinhole Ceiling Tile	6% Chrysotile 5% Amosite	RACM	(4) Damaged or significantly damaged friable miscellaneous ACBM.

Summary of Previously Identified Asbestos-Containing Materials

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
Custodial Office/ Mechanical Room in Boiler Room	12" x 12" Olive Mottled Floor Tile and associated Black Mastic	Floor Tile – 3% Chrysotile Mastic – 3% Chrysotile	Category I: Non-Friable	Not Applicable	Observed

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
Kitchen Staff Locker Room	12" x 12" Beige Mottled Floor Tile and associated Black Mastic	Floor Tile – 5% Chrysotile Mastic – 5% Chrysotile	Category I: Non-Friable	Not Applicable	Observed (pictured)
Hallway between Classrooms 118-123	2" Pipe Insulation	5% Chrysotile	RACM	(5) ACBM with potential for damage.	Observed
Classroom 123 at Sink Cabinet (under 12" x 12" Floor Tile)	Orange Floor Tile and associated Black and Yellow Carpet Mastic	Floor Tile – NAD Black Mastic – 5% Chrysotile Yellow Mastic – NAD	Category I: Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Classroom 123 (under Carpet)	Brown/ Black Floor Tile and associated Black and Yellow Carpet Mastic	Floor Tile – 5% Chrysotile Black Mastic – NAD Yellow Mastic – NAD	Category I: Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Classroom 111 (under Carpet)	Brown/ Black Floor Tile and associated Black and Yellow Carpet Mastic	Floor Tile – N/A Black Mastic – 3% Chrysotile Yellow Mastic – NAD	Category I: Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
Classroom 117 (under Carpet)	Green Floor Tile and associated Black and Brown Carpet Mastic	Floor Tile – 5% Chrysotile Black Mastic – NAD Brown Mastic – NAD	Category I: Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Kitchen Manager Office	Black Mastic associated with 12" x 12" Tan Mottled Vinyl Floor Tile	10% Chrysotile	Category I: Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Kitchen	Tan Interior Door Caulk	5% Chrysotile	Category II: Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Cafeteria	Unknown Size Gray/ Beige Vinyl Floor Tile (Layer 3)	5% Chrysotile	Category I: Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Cafeteria	Unknown Size Gray/ Beige Vinyl Floor Tile (Layer 3) and associated Black Mastic	Tile-5% Chrysotile Mastic-8% Chrysotile	Category I: Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
AHU Room across from Room 233	White Plaster	No analysis available	RACM	(5) ACBM with potential for damage.	Observed
2nd Floor Janitor's Closets, 1st Hallway Closets	9" x 9" Black Floor Tiles and associated Mastic	No analysis available	Category I Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
1st and 2nd Floor Storage Closets	Surfacing Trowel on Ceiling	No analysis available	RACM	(5) ACBM with potential for damage.	Not observed, assumed to have been abated or concealed by newer applications
Cafeteria on the 1st Floor (Observed above Drop Ceiling Tiles throughout the Building)	Brown Ceiling Mastic	No analysis available	Category II Non-Friable	Not Applicable	Observed

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
Hallway of Rooms 223-225 (Observed above Drop Ceiling Tile throughout the Building)	Black Pipe Mastic	No analysis available	Category II Non-Friable	Not Applicable	Observed (pictured)
Hallway of Rooms 111-117 (Observed above Drop Ceiling Tile in the Book Room)	TSI-Mudded Elbows (2"OD)	No analysis available	RACM	(5) ACBM with potential for damage.	Observed (pictured)
Hallways	Fire Doors	No analysis available	RACM	(7) Any remaining friable ACBM or friable suspected ACBM.	Observed
Janitor's Closet near Room 105, Storage next to Closet, & Hallway by Main Office on 1st Floor	TSI-Mudded Elbows (4"OD)	No analysis available	RACM	(5) ACBM with potential for damage.	Observed

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
Wings Book Room	9" x 9" Maroon With Black Floor Tiles and associated mastic	No analysis available	Category I Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Above Drop Ceiling Tile in Room 112 on 1st Floor	Black Mastic on Pipe and Foil Wrap Duct (on Fiberglass Pipe and Duct Insulation)	No analysis available	Category II Non-Friable	Not Applicable	Observed (pictured)
Above Drop Ceiling Tile in Room 112 on 1st Floor	Foil Wrap Duct (on Fiberglass Pipe and Duct Insulation)	No analysis available	RACM	(5) ACBM with potential for damage.	Observed (pictured)
By Main Office on 1st Floor/ Room 225 on 2nd Floor	Black Mastic on Fiberglass Pipe	No analysis available	Category II Non-Friable	Not Applicable	Observed
1st Floor Auditorium	Black Floor Mastic	No analysis available	Category II Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
Cafeteria	Tan Pipe Mastic on 6" Pipe	No analysis available	Category II Non-Friable	(5) ACBM with potential for damage.	Observed
Cafeteria	12" x 12" Light Green Floor Tiles and associated Mastic	No analysis available	Category I Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Room 209 and throughout 2nd Floor	White Plaster on Steel Support Beam	No analysis available	RACM	(5) ACBM with potential for damage.	Observed (pictured)
Book Room	12" x 12" Tan Floor Tiles and associated Mastic	No analysis available	Category I Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Storage Room across from Boiler Room	9" x 9" Brown Floor Tiles and associated Mastic	No analysis available	Category I Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Room 224 Ceiling Cavity	Black Mastic on Fiberglass Duct Wrap	10% Chrysotile	Category II Non-Friable	Not Applicable	Observed (pictured)

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
Room 112	9" x 9" Green Floor Tile	5% Chrysotile	Category I Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Room 221	Black Mastic associated with 9" x 9" Orange Floor Tile	3% Chrysotile	Category I Non-Friable	Not Applicable	Not observed, assumed to have been abated or concealed by newer applications
Notes: **1. Upon review of historical documentation, black mastic on pipe insulation within the former kitchen area was abated in 2021 (reference ECS PROJECT NO. 47:11652-B2).** **2. Asbestos containing black pipe bridging mastic and associated pipe insulation were abated from the exterior loading dock entryway in 2021 (reference ECS PROJECT NO. 47:11652- B).** ****No additional description of the vinyl floor tiles abated was provided in historical documentation reviewed.**					

Summary of Non Asbestos-Containing Materials Identified

Location	Material Description	Analytical Results
Materials Sampled in 2021 AHERA Survey		
Hall by Room 118, Closet by Room 105, and Room 219	Plaster Ceiling	NAD
Hall by Room 117 and Hall by Room 228	Light Rough Coat Plaster Ceiling	NAD
Hall by Room 117 and Hall by Room 219	Dark Patch Rough Coat Plaster Ceiling	NAD
Cafeteria, Room 319, Hall by Room 322, and Room 232	Plaster Wall	NAD

Location	Material Description	Analytical Results
Room 118	White Drywall Wallboard	NAD
Room 118	White Drywall Joint Compound	Both NAD
Cafeteria	Gray Drywall Ceiling Board	NAD
Room 118	Brown Fiberboard with Felt Paper	Both NAD
Room 118 and Boiler Room	White Fiberglass Pipe Insulation Wrap Mastic	Both NAD
Room 123	Black Waterproofing Paint	NAD
Room 123 and Room 105	Gray Sink Undercoat	NAD
Hall by Room 123	12" x 12" White with Blue Flecks Floor Tile with Yellow Mastic	Both NAD
Hall by Room 123	12" x 12" Gray with White Flecks Floor Tile with Yellow Mastic	Both NAD
A/V Room and Media Room	12" x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic	Both NAD
Previously Sampled Materials		
Boiler Room	Textured Plaster Ceiling (Rough Coat)	NAD
Custodial Storage	Textured Plaster Ceiling (2 Layers)	Coating – NAD Plaster – NAD
Hallway to Gymnasium & Kitchen	Gray Mastic on Duct	NAD
Cafeteria	Plaster Column (2 Layers)	Both NAD
Cafeteria, Hallway to Gymnasium, & Hallway at Exit 11	Plaster Wall (2 Layers)	Finish – NAD Base – NAD
Library	Brown Interior Window Caulk	NAD
Stage	Fire Door Insulation	NAD
Classroom 116, 117, & 209	Green Interior Window Caulk	NAD
Cafeteria	2 Coat Wall Plaster - Base and Finish	Both NAD
Kitchen	CMU Wall Surfacing Compound	NAD
Cafeteria	White Interior Door Caulk	NAD

Location	Material Description	Analytical Results
Kitchen	White Sink Caulk	NAD
Kitchen Manager Office	2'x4' Pinhole with Fissures Ceiling Tile	NAD
Kitchen Manager Office	2'x4' Flat Ceiling Tile	NAD
Kitchen/Cafeteria Entryway	White Ceramic Wall Tile Thin Set	NAD
Cafeteria	12" x 12" Beige with Blue Streaks Vinyl Floor Tile(Layer 1) and associated Yellow Mastic	Both NAD
Cafeteria	Unknown Size Blue Vinyl Floor Tile (Layer 2) and associated Yellow Mastic	Both NAD
Cafeteria	12" x 12" Blue Mottled Vinyl Floor Tile (Decorative Pattern Layer 1) and associated Yellow Mastic	Both NAD
Cafeteria	12" x 12" Navy/Gray Vinyl Floor Tile (Decorative Pattern Layer 1) and associated Yellow Mastic	Both NAD
Cafeteria	4" Gray Cove Base and associated Yellow Mastic	Both NAD
Notes: **NAD = No Asbestos Detected** **Locations reflect the area in which the material was sampled. These materials may be representative of and located in other homogenous areas throughout the school.**		

Miscellaneous Materials

ECS observed asbestos-containing Gray Leveling Compound in the Cafeteria and Hall by Room 209. This material may be present in other areas of the building. Note: generally asbestos-containing leveling compound can be found under furniture, partitions, other flooring materials, etc.

ECS observed asbestos-containing 2' x 4' White Pinhole Ceiling Tiles in Room 103. A map of additional locations of the ceiling tiles is attached to this report.

4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc. These areas were deemed inaccessible and were not assessed.

If these materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

Based upon our past experience in the identification of ACMs in similarly constructed buildings, the following additional suspect ACMs may also be located in inaccessible areas of the structure:

- **Boilers Components** in boilers (gasket, fire brick, etc.).
- **Vermiculite Filler** associated with Concrete Masonry Unit (Blocks/Walls) .
- **Duct Pin Mastic** associated with the HVAC Units.
- **Electrical Panels Asbestos Cement Components** in electrical systems.
- **Fire Door and associated Casing Insulation** in locations requiring a rated fire door and door casing.
- **Mastics** behind/under mirrors and behind/under dry-erase boards/chalk boards or lockers.
- **"Transite" Panels** in roofing components or possibly other applications .
- **Water Fountain Components** in water fountains (mastics, pipe cloth, etc).
- **Waterproofing Membrane/Mastics/Vapor Barriers/Sub-grade Pipe Conduit** within exterior wall cavities, behind interior finishes, exterior veneer and/or subgrade walls.
- **Thermal System Insulation (TSI)** on pipes within chases behind solid walls, within the inaccessible regions of crawl spaces, above the visible ductwork, or below subgrade.
- **Pipe Flange Gaskets** in heating and plumbing systems.
- **Air Handler Components** in the air handlers (interior components).
- **Freezer Components** and insulation.
- **Vibration Dampener Cloth** associated with HVAC Systems.
- **Roofing Materials** including caulk, flashing, membranes.
- **Felt Paper and Leveling Compound** associated with hardwood floors.
- **Asbestos-Cement Pipe Conduit** encased in duct banks and/or below sub-grade.
- **Laboratory Bench Tops**
- **Terrazzo** Stairs, Floors, Sinks, and Window Sills
- **Spray-On Fireproofing** above ceilings and behind walls.
- **CMU Block Coating**

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the AHERA Asbestos-Containing Materials Survey, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

ECS recommends where a material type has been identified as asbestos-containing that other materials with similar color, texture, age and size throughout the building's interior and exterior be assumed to contain asbestos. Please refer to Section 4.1 for a complete list of building materials that were reported positive for asbestos and to Section 4.2 for materials that were assumed to contain asbestos.

If the identified ACMs are scheduled to be disturbed in the future, it is recommended that this work be performed by a Commonwealth of Virginia licensed asbestos abatement contractor. The Commonwealth of Virginia requires 20 calendar-days notice prior to an asbestos project involving

greater than or equal to 10 linear feet or 10 squared feet. The EPA requires 10 working days notice prior to removal of regulated ACM (RACM) in quantities greater than or equal to 160 square feet, 260 linear feet, or 35 cubic feet. Note that EPA Region III no longer requires notification of asbestos projects but rather request all notification go to the appropriate state agencies. Notification requirements in general will be dependent on the means/methods used by the contractor to abate the material found in the building.

If ACMs are to be removed, it is recommended that an industrial hygienist monitor the project. This involves collecting air samples from within and outside abatement work areas to monitor the asbestos abatement contractor's work practices over the course of the project. The industrial hygienist should evaluate if the asbestos abatement work is in accordance with project specifications, U.S. EPA regulation 40 CFR Part 61-National Emission Standards for Hazardous Air Pollutants Subpart M: National Emission Standard for Asbestos, and U.S. Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 – Asbestos in Construction. The industrial hygienist should assess each work area to monitor the removal of ACMs. Only after the industrial hygienist has determined the identified ACMs have been removed should final clearance air samples be collected (if necessary).

Suspect ACMs not observed due to inaccessibility or not sampled due to the destructive means that sampling would require may also be encountered during construction activities. At the time of the survey, only limited destructive means were used to locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, exterior areas, sub-grade sealants, flooring located below underlayments, vapor barriers, pipe trenches and other subsurface utilities, etc. If additional suspect ACMs are uncovered which were not accessible during this survey, it is recommended that these materials either be assumed to contain asbestos or be sampled prior to disturbance upon discovery for asbestos content by an asbestos inspector in accordance with 29 CFR 1926.1101.

During this assessment, ECS observed that plasters had been reported to contain asbestos in past surveys'. ECS recommends a more detailed survey and assessment of the school to specially identify which plasters have asbestos, assess their condition and extent in the school, and develop remediation plans for any damaged materials.

The results of this survey should be added to the school's management plan.

6.0 LIMITATIONS

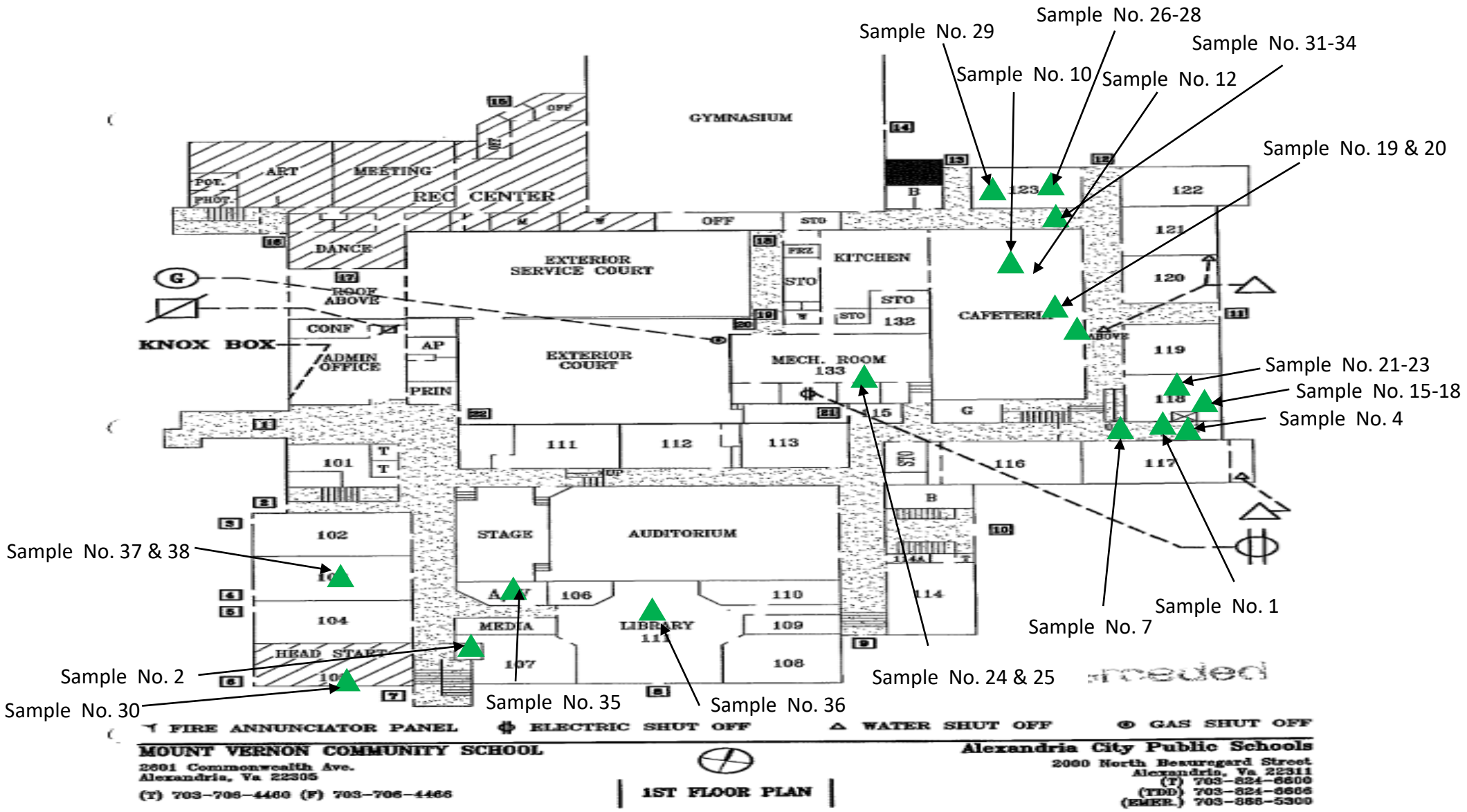
The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

During this study, samples were submitted for analysis at an accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No warranty, expressed or implied, is made.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

Appendix I: Figures



▲ Sample Areas

□ Inaccessible Areas (during survey)

Note: Inaccessible Areas Not Recorded During Survey

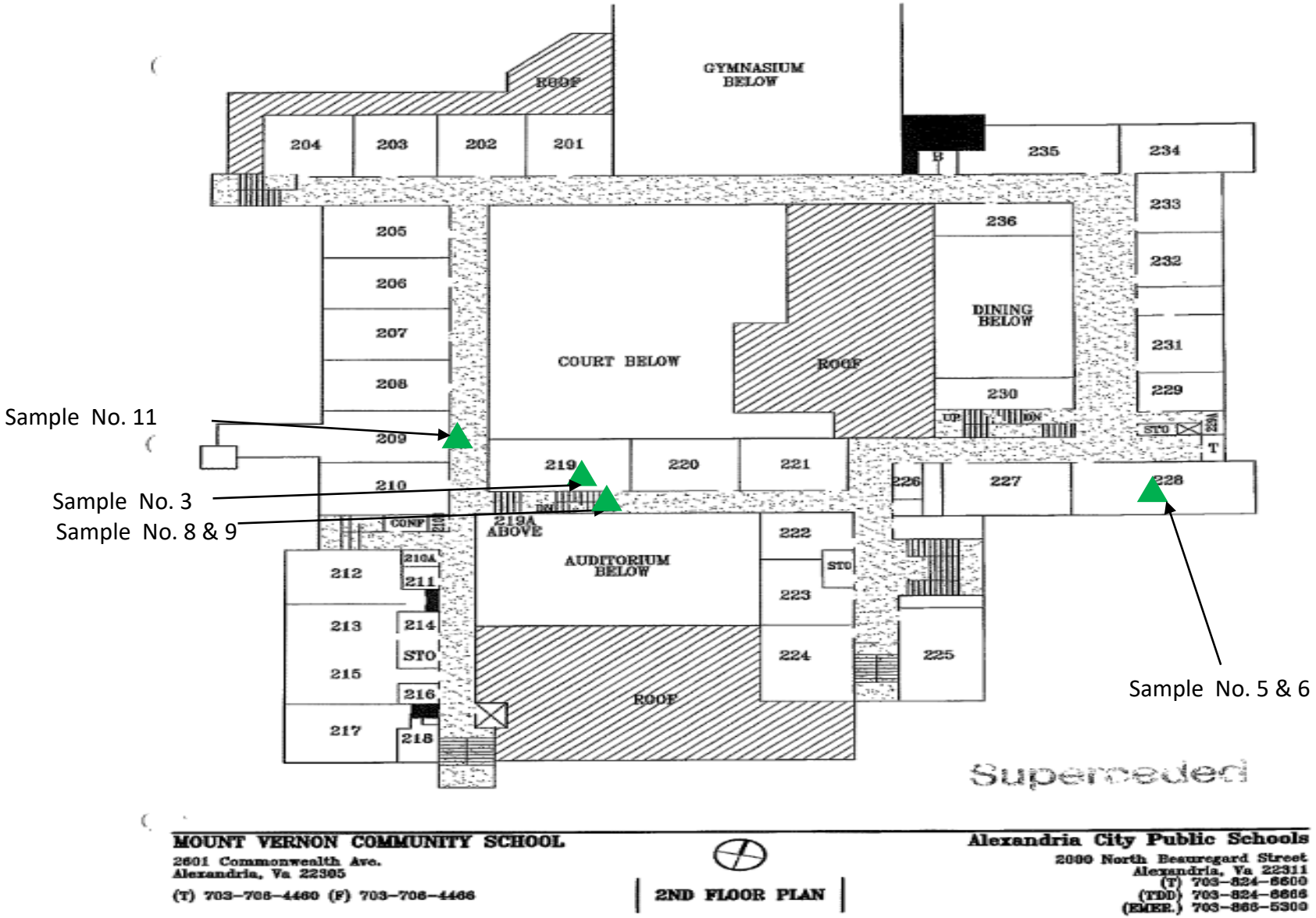
Mount Vernon Community School
2601 Commonwealth Avenue,
Alexandria, Virginia, 22305

Sample Location Sketch
First Level

Scale: NTS

Project No.
11652-E2

Site Visit:
1-28-22



▲ Sample Areas

□ Inaccessible Areas (during survey)

Note: Inaccessible Areas Not Recorded During Survey

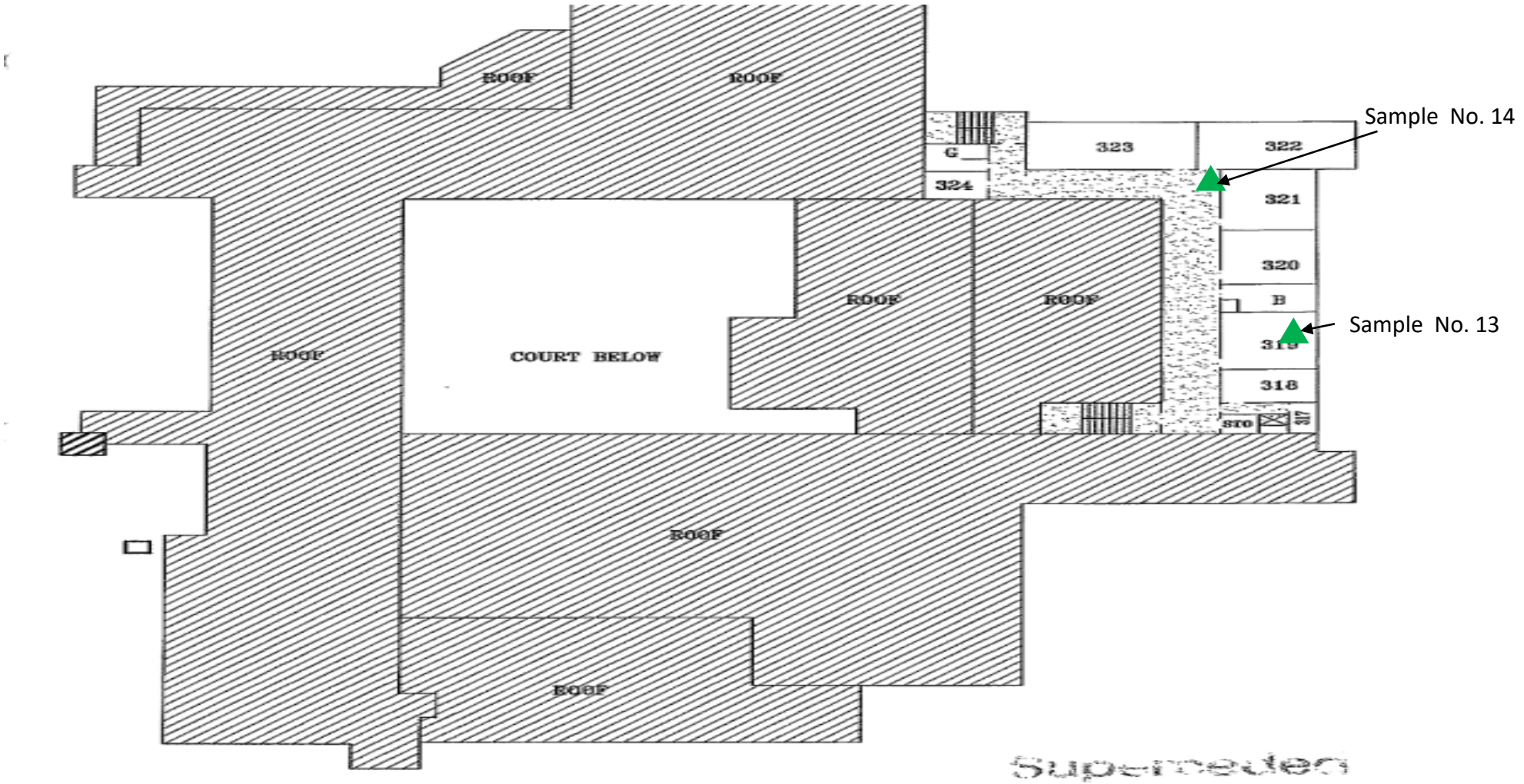
Mount Vernon Community School
2601 Commonwealth Avenue,
Alexandria, Virginia, 22305

Sample Location Sketch
Second Floor

Scale: NTS

Project No.
11652-E2

Site Visit:
1-28-22



MOUNT VERNON COMMUNITY SCHOOL
2601 Commonwealth Ave.
Alexandria, Va 22305
(T) 703-706-4460 (F) 703-706-4466

3RD FLOOR PLAN

Alexandria City Public Schools
2000 North Beauregard Street
Alexandria, Va 22311
(T) 703-824-6600
(TDD) 703-824-6666
(EMER.) 703-866-5300

▲ Sample Areas

☐ Inaccessible Areas (during survey)

Note: Inaccessible Areas Not Recorded During Survey

Mount Vernon Community School
2601 Commonwealth Avenue,
Alexandria, Virginia, 22305

Sample Location Sketch
Third Floor

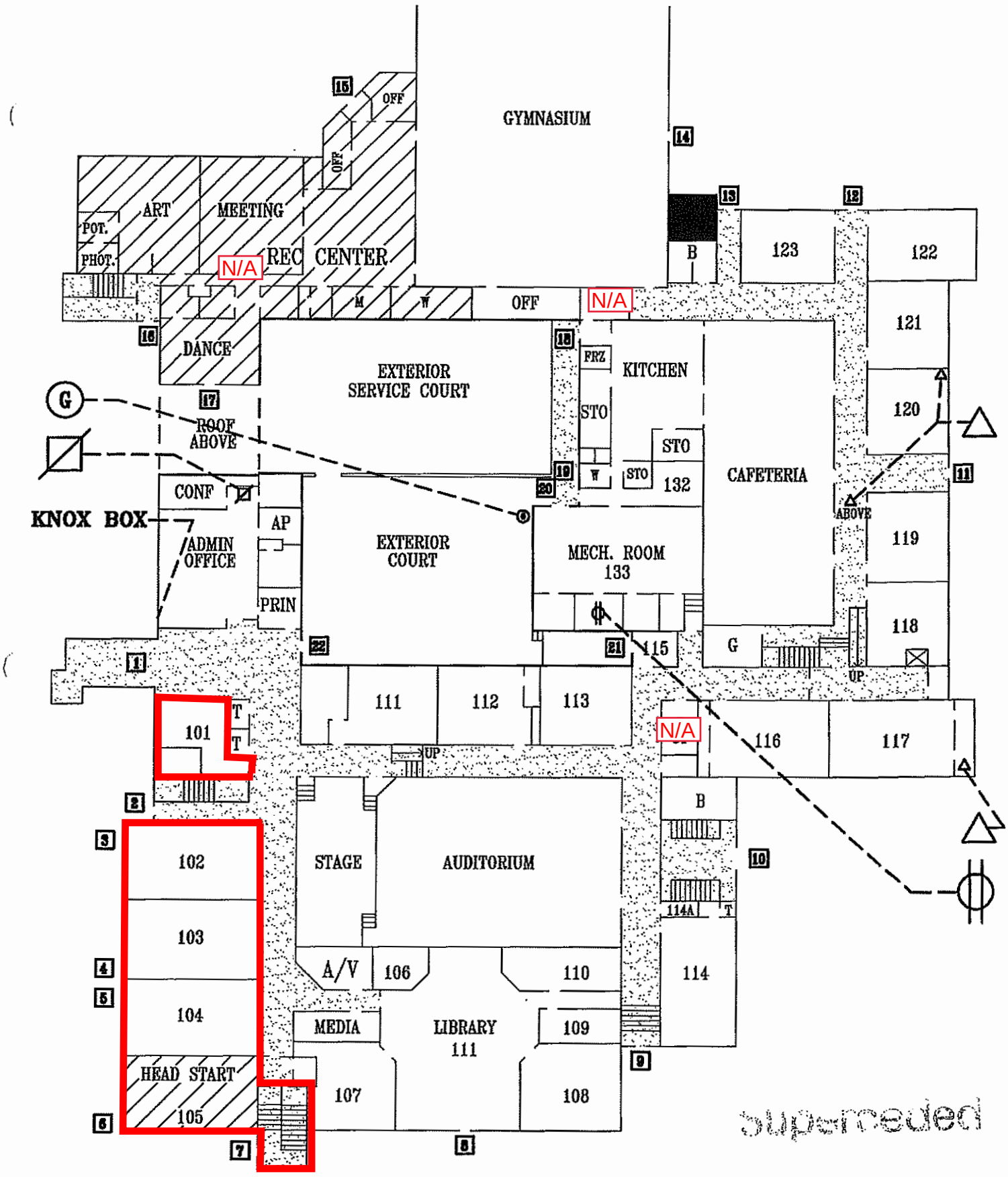
Scale: NTS

Project No.
11652-E2

Site Visit:
1-28-22

Areas of observed ACM Ceiling Tile

N/A Not accessible



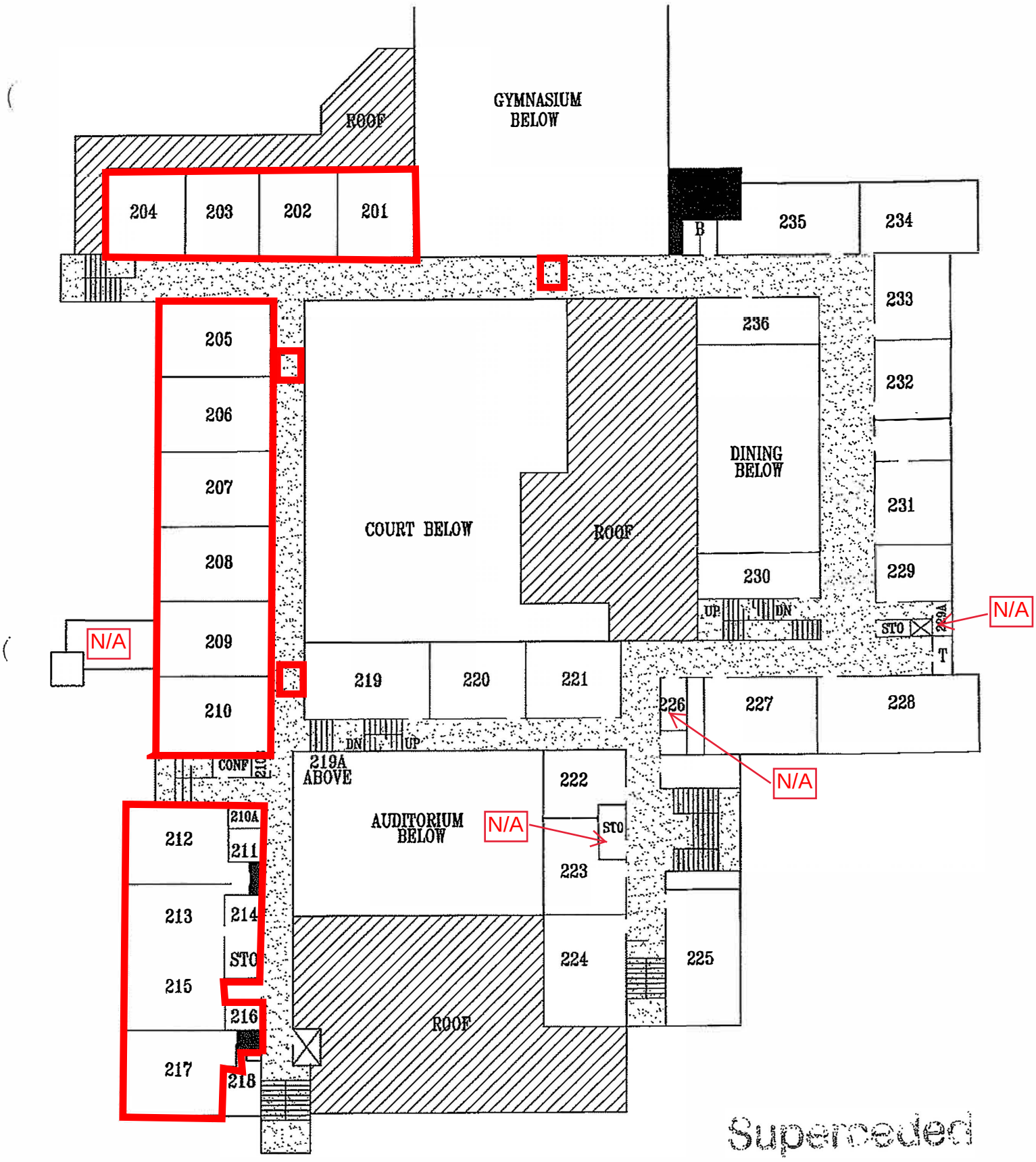
MOUNT VERNON COMMUNITY SCHOOL
2601 Commonwealth Ave.
Alexandria, Va 22305
(T) 703-706-4460 (F) 703-706-4466

1ST FLOOR PLAN

Alexandria City Public Schools
2000 North Beauregard Street
Alexandria, Va 22311
(T) 703-824-6600
(TDD) 703-824-6666
(EMER.) 703-866-5300

Areas of observed ACM Ceiling Tile

N/A Not accessible



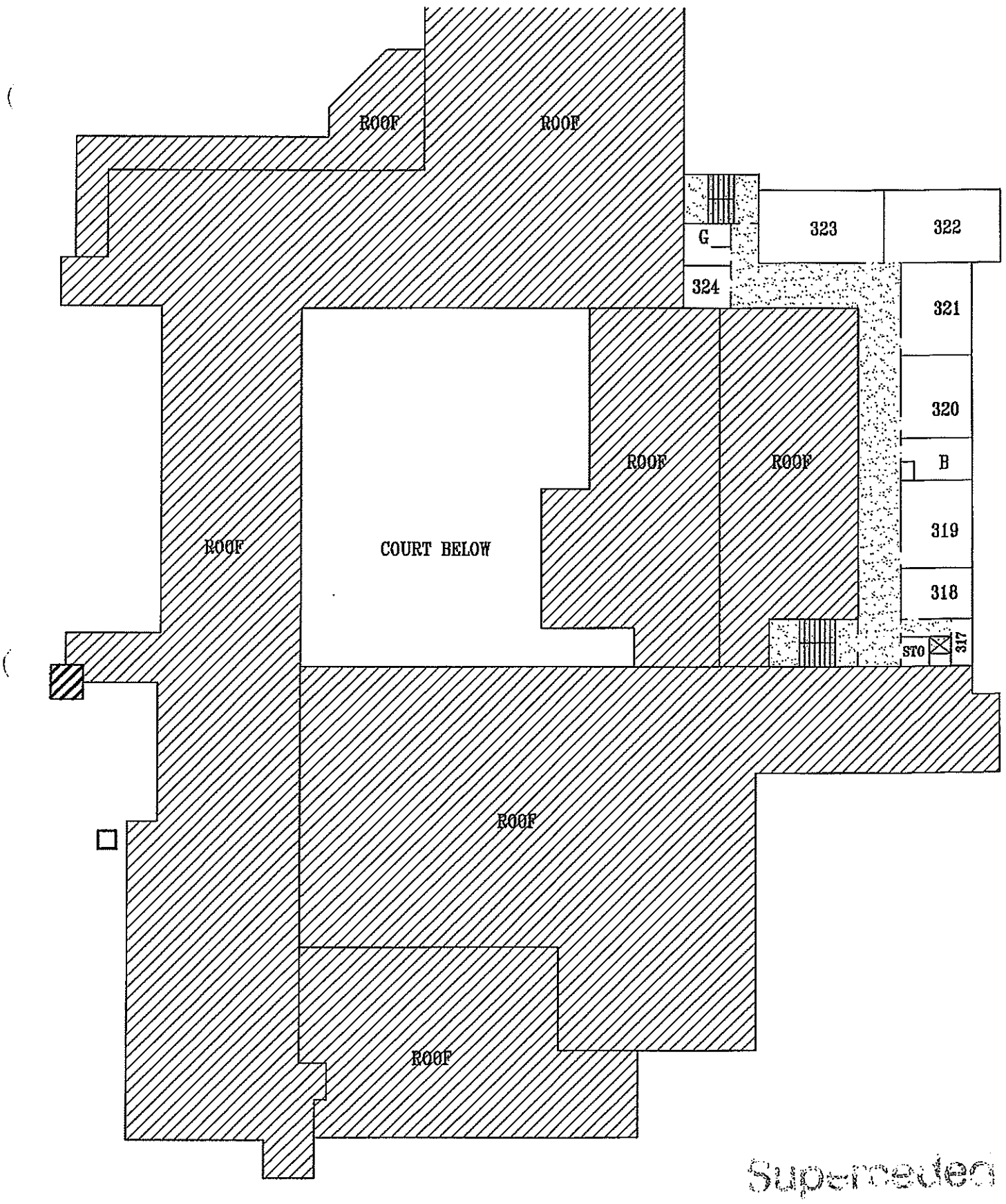
Superseded

MOUNT VERNON COMMUNITY SCHOOL
2601 Commonwealth Ave.
Alexandria, Va 22305
(T) 703-706-4460 (F) 703-706-4466

2ND FLOOR PLAN

Alexandria City Public Schools
2000 North Beauregard Street
Alexandria, Va 22311
(T) 703-824-6600
(TDD) 703-824-6666
(EMER.) 703-366-5300

Areas of observed ACM Ceiling Tile



Superseded

MOUNT VERNON COMMUNITY SCHOOL
2601 Commonwealth Ave.
Alexandria, Va 22305
(T) 703-706-4460 (F) 703-706-4466

3RD FLOOR PLAN

Alexandria City Public Schools
2000 North Beauregard Street
Alexandria, Va 22311
(T) 703-824-6600
(TDD) 703-824-6666
(EMER.) 703-866-5300

Appendix II: Site Photographs



1 - View of Mudded Pipe Elbows (Previously Reported as ACM)



2 - View of Black Duct Insulation Seam Mastic (previously reported as ACM)



3 - View of Damaged Plaster above Drop Ceiling



4 - View of Black HVAC insulation seam Mastic



5 - View of Plaster on Steel Supports (Previously Reported as ACM)



6 - View of Black Mudded Pipe Elbows (Previously reported as ACM)



7 - View of 2' x 4"Ceiling Tile (ACM)



8 - View of Mudded TSI Pipe in Closet



9 - View of Wall packing



10 - View of 2' x 4' Ceiling Tile (ACM)



11 - View 1' x 1' Ceiling Tile and associated Brown Dot Mastic



12 - View of Black Mastic on Pipe System and Mudded Pipe Elbows above Drop Ceiling

Appendix III: Asbestos Bulk Sample Results

SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

Sample #	Sampling Location	Material/Description	Analytical Results
1 - A	Hall by Room 118	Plaster Ceiling- Finish	NAD
1 - B	Hall by Room 118	Plaster Ceiling- Base	NAD
2 - A	Closet by Room 105	Plaster Ceiling- Finish	NAD
2 - B	Closet by Room 105	Plaster Ceiling- Base	NAD
3 - A	Room 219	Plaster Ceiling- Finish	NAD
3 - B	Room 219	Plaster Ceiling- Base	NAD
4	Hall by Room 117	Light Rough Coat Plaster Ceiling	NAD
5	Hall by Room 228	Light Rough Coat Plaster Ceiling	NAD
6	Hall by Room 228	Light Rough Coat Plaster Ceiling	NAD
7	Hall by Room 117	Dark Patch Rough Coat Plaster Ceiling	NAD
8	Hall by Room 219	Dark Patch Rough Coat Plaster Ceiling	NAD
9	Hall by Room 219	Dark Patch Rough Coat Plaster Ceiling	NAD
10	Cafeteria	Gray Leveling Compound	NAD
11	**Hall by Room 209**	**Gray Leveling Compound**	**2% Chrysotile**
12-A	Cafeteria	Plaster Wall- Finish	NAD
12-B	Cafeteria	Plaster Wall- Base 1	NAD
12-C	Cafeteria	Plaster Wall- Base 2	NAD
13	Room 319	Plaster Wall- Single Layer	NAD
14-A	Hall by Room 322	Plaster Wall- Finish	NAD
14-B	Hall by Room 322	Plaster Wall- Base	NAD
15	Room 118	White Drywall Wallboard	NAD
16	Room 118	White Drywall Wallboard	NAD
17	Room 118	White Drywall Wallboard and Joint Compund	NAD
18	Room 118	White Drywall Wallboard and Joint Compund	NAD
19-A	Cafeteria	Gray Drywall Ceiling Board- Finish	NAD
19-B	Cafeteria	Gray Drywall Ceiling Board- Base	NAD
19-C	Cafeteria	Gray Drywall Ceiling Board- Drywall	NAD
20	Cafeteria	Gray Drywall Ceiling Board	NAD

Table Notes:
Bold = Asbestos-Containing Materials
N/A = Not Analyzed
None Detected = No Asbestos Detected

SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

Sample #	Sampling Location	Material/Description	Analytical Results
21-A	Room 118	Brown Fiberboard with Felt Paper- Wrap	NAD
21-B	Room 118	Brown Fiberboard with Felt Paper- Insulation	NAD
22-A	Room 118	Brown Fiberboard with Felt Paper- Wrap	NAD
22-B	Room 118	Brown Fiberboard with Felt Paper- Insulation	NAD
23	Room 118	White Fiberglass Pipe Insulation Wrap Mastic	NAD
24	Boiler Room	White Fiberglass Pipe Insulation Wrap Mastic	NAD
25	Boiler Room	White Fiberglass Pipe Insulation Wrap Mastic	NAD
26	Room 123	Black Waterproofing Paint	NAD
27	Room 123	Black Waterproofing Paint	NAD
28	Room 123	Black Waterproofing Paint	NAD
29	Room 123	Gray Sink Undercoat	NAD
30	Room 105	Gray Sink Undercoat	NAD
31	Hall by Room 123	2" x 12" White with Blue Flecks Floor Tile with Yellow Mastic- Ti	NAD
32	Hall by Room 123	2" x 12" White with Blue Flecks Floor Tile with Yellow Mastic- Ti	NAD
33-A	Hall by Room 123	2" x 12" Gray with White Flecks Floor Tile with Yellow Mastic- Ti	NAD
33-B	Hall by Room 123	x 12" Gray with White Flecks Floor Tile with Yellow Mastic- Ma	NAD
34-A	Hall by Room 123	2" x 12" Gray with White Flecks Floor Tile with Yellow Mastic- Ti	NAD
34-B	Hall by Room 123	x 12" Gray with White Flecks Floor Tile with Yellow Mastic- Ma	NAD
35-A	AV Room	" x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic- T	NAD
35-B	AV Room	x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic- Ma	NAD
36-A	Media Room	" x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic- T	NAD
36-B	Media Room	x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic- Ma	NAD
37	**Room 103**	**2' x 4' White Pinhole Ceiling Tile**	**6% Chrysotile 5% Amosite**
38	**Room 103**	**2' x 4' White Pinhole Ceiling Tile**	**5% Chrysotile 5% Amosite**

Table Notes:
Bold = Asbestos-Containing Materials
N/A = Not Analyzed
None Detected = No Asbestos Detected

Appendix IV: Laboratory Report(s)

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP TESTING NVLAP LAB CODE 200664-0

Lab ID # 173190

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Michael Hamill

Project: 11652-E2/ Mount Vernon

Lab Order ID: 71984519
Analysis ID: 71984519_PLM
Date Received: 2/1/2022
Date Reported: 2/7/2022

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1 - A *71984519PLM_1*	Plaster Ceiling *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
1 - B *71984519PLM_40*	Plaster Ceiling *base*	**None Detected**		**100% Other**	Gray Non Fibrous Heterogeneous Crushed
2 - A *71984519PLM_2*	Plaster Ceiling *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
2 - B *71984519PLM_41*	Plaster Ceiling *base*	**None Detected**		**100% Other**	Gray Non Fibrous Heterogeneous Crushed
3 - A *71984519PLM_3*	Plaster Ceiling *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
3 - B *71984519PLM_42*	Plaster Ceiling *base*	**None Detected**		**100% Other**	Gray Non Fibrous Heterogeneous Crushed
4 *71984519PLM_4*	Light Rough Coat Plaster Ceiling	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed
5 *71984519PLM_5*	Light Rough Coat Plaster Ceiling	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (54)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP TESTING NVLAP LAB CODE 200664-0

AIHA ACCREDITED LABS.ORG Lab ID # 173190

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Michael Hamill

Project: 11652-E2/ Mount Vernon

Lab Order ID: 71984519
Analysis ID: 71984519_PLM
Date Received: 2/1/2022
Date Reported: 2/7/2022

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
6 *71984519PLM_6*	Light Rough Coat Plaster Ceiling	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed
7 *71984519PLM_7*	Dark Patch Rough Coat Plaster Ceiling	**None Detected**		**70% Other** **30% Vermiculite**	Gray, Gold Non Fibrous Heterogeneous Crushed
8 *71984519PLM_8*	Dark Patch Rough Coat Plaster Ceiling	**None Detected**		**90% Other** **10% Perlite**	Gray Non Fibrous Heterogeneous Crushed
9 *71984519PLM_9*	Dark Patch Rough Coat Plaster Ceiling	**None Detected**		**90% Other** **10% Perlite**	Gray Non Fibrous Heterogeneous Crushed
10 *71984519PLM_10*	Gray Leveling Compound	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed
11 *71984519PLM_11*	Gray Leveling Compound	**2% Chrysotile**		**98% Other**	Gray, Tan Non Fibrous Homogeneous Crushed, Dissolved
12 - A *71984519PLM_12*	Plaster Wall *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
12 - B *71984519PLM_43*	Plaster Wall *base 1*	**None Detected**		**95% Other** **5% Perlite**	Gray Non Fibrous Homogeneous Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (54)

Analyst

Approved Signatory

P-F-002 r15 1/16/2021

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP TESTING NVLAP LAB CODE 200664-0

INDUSTRIAL HYGIENE ISO/IEC 17025:2017 Accredited Laboratory AIHA LAP, LLC AIHAACCREDITEDLABS.ORG Lab ID # 173190

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Michael Hamill

Project: 11652-E2/ Mount Vernon

Lab Order ID: 71984519
Analysis ID: 71984519_PLM
Date Received: 2/1/2022
Date Reported: 2/7/2022

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
12 - C *71984519PLM_44*	Plaster Wall *base 2*	None Detected	2% Hair	98% Other	Gray Non Fibrous Heterogeneous Crushed
13 *71984519PLM_13*	Plaster Wall *single layer plaster*	None Detected		100% Other	Gray Non Fibrous Heterogeneous Crushed
14 - A *71984519PLM_14*	Plaster Wall *finish*	None Detected	2% Cellulose	98% Other	White Non Fibrous Heterogeneous Crushed
14 - B *71984519PLM_45*	Plaster Wall *base*	None Detected		100% Other	Gray Non Fibrous Heterogeneous Crushed
- A *71984519PLM_15*	Plaster Wall *finish*	None Detected	2% Cellulose	98% Other	White Non Fibrous Heterogeneous Crushed
- B *71984519PLM_46*	Plaster Wall *base*	None Detected	2% Cellulose	98% Other	Gray Non Fibrous Heterogeneous Crushed
15 *71984519PLM_16*	White Drywall Wallboard	None Detected	10% Cellulose 2% Fiber Glass	88% Other	Gray Non Fibrous Homogeneous Crushed
16 *71984519PLM_17*	White Drywall Wallboard	None Detected	10% Cellulose 2% Fiber Glass	88% Other	Gray Non Fibrous Homogeneous Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (54)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP TESTING NVLAP LAB CODE 200664-0

AIHA ACCREDITED LABS.ORG Lab ID # 173190

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Michael Hamill

Project: 11652-E2/ Mount Vernon

Lab Order ID: 71984519
Analysis ID: 71984519_PLM
Date Received: 2/1/2022
Date Reported: 2/7/2022

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
17 *71984519PLM_18*	White Drywall Joint Compound	None Detected		100% Other	White Non Fibrous Homogeneous Crushed
18 *71984519PLM_19*	White Drywall Joint Compound	None Detected		100% Other	White Non Fibrous Homogeneous Crushed
19 - A *71984519PLM_20*	Gray Drywall Ceiling Board *finish*	None Detected		100% Other	White Non Fibrous Homogeneous Crushed
19 - B *71984519PLM_47*	Gray Drywall Ceiling Board *base*	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Heterogeneous Crushed
19 - C *71984519PLM_48*	Gray Drywall Ceiling Board *drywall*	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous Crushed
20 *71984519PLM_21*	Gray Drywall Ceiling Board	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous Crushed
21 - A *71984519PLM_22*	Brown Fiberboard with Felt Paper *wrap*	None Detected	90% Cellulose	10% Other	White Fibrous Heterogeneous Teased, Crushed
21 - B *71984519PLM_49*	Brown Fiberboard with Felt Paper *insulation*	None Detected	98% Cellulose	2% Other	Brown Fibrous Heterogeneous Teased

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (54)

Analyst

Approved Signatory

P-F-002 r15 1/16/2021

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP TESTING NVLAP LAB CODE 200664-0

Lab ID # 173190

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Michael Hamill

Project: 11652-E2/ Mount Vernon

Lab Order ID: 71984519
Analysis ID: 71984519_PLM
Date Received: 2/1/2022
Date Reported: 2/7/2022

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
22 - A *71984519PLM_23*	Brown Fiberboard with Felt Paper *wrap*	**None Detected**	**90% Cellulose**	**10% Other**	White Fibrous Heterogeneous Teased, Crushed
22 - B *71984519PLM_50*	Brown Fiberboard with Felt Paper *insulation*	**None Detected**	**98% Cellulose**	**2% Other**	Brown Fibrous Heterogeneous Teased
23 *71984519PLM_24*	White Fiberglass Pipe Insulation Wrap Mastic	**None Detected**	**5% Wollastonite**	**95% Other**	White Non Fibrous Homogeneous Crushed, Ashed
24 *71984519PLM_25*	White Fiberglass Pipe Insulation Wrap Mastic	**None Detected**	**5% Wollastonite**	**95% Other**	White Non Fibrous Homogeneous Crushed, Ashed
25 *71984519PLM_26*	White Fiberglass Pipe Insulation Wrap Mastic	**None Detected**	**3% Wollastonite**	**97% Other**	White Non Fibrous Homogeneous Crushed, Ashed
26 *71984519PLM_27*	Black Waterproofing Paint	**None Detected**		**100% Other**	Black, Gray Non Fibrous Heterogeneous Crushed
27 *71984519PLM_28*	Black Waterproofing Paint	**None Detected**		**100% Other**	Black, Gray Non Fibrous Heterogeneous Crushed
28 *71984519PLM_29*	Black Waterproofing Paint	**None Detected**		**100% Other**	Black, Gray Non Fibrous Heterogeneous Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (54)

Analyst

Approved Signatory

P-F-002 r15 1/16/2021

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP TESTING NVLAP LAB CODE 200664-0

AIHA ACCREDITED LABS.ORG Lab ID # 173190

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Michael Hamill

Project: 11652-E2/ Mount Vernon

Lab Order ID: 71984519
Analysis ID: 71984519_PLM
Date Received: 2/1/2022
Date Reported: 2/7/2022

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
29 *71984519PLM_30*	Gray Sink Undercoat	None Detected		100% Other	Gray Non Fibrous Homogeneous Crushed, Dissolved
30 *71984519PLM_31*	Gray Sink Undercoat	None Detected		100% Other	Gray Non Fibrous Homogeneous Crushed, Dissolved
31 *71984519PLM_32*	12" x 12" White with Blue Flecks Floor Tile with Yellow Mastic *tile only*	None Detected		100% Other	White Non Fibrous Homogeneous Crushed, Dissolved
32 *71984519PLM_33*	12" x 12" White with Blue Flecks Floor Tile with Yellow Mastic *tile only*	None Detected		100% Other	White Non Fibrous Homogeneous Crushed, Dissolved
33 - A *71984519PLM_34*	12" x 12" Gray with White Flecks Floor Tile with Yellow Mastic *tile*	None Detected		100% Other	Gray Non Fibrous Homogeneous Crushed, Dissolved
33 - B *71984519PLM_51*	12" x 12" Gray with White Flecks Floor Tile with Yellow Mastic *mastic*	None Detected		100% Other	Yellow Non Fibrous Homogeneous Dissolved
34 - A *71984519PLM_35*	12" x 12" Gray with White Flecks Floor Tile with Yellow Mastic *tile*	None Detected		100% Other	Gray Non Fibrous Homogeneous Crushed, Dissolved
34 - B *71984519PLM_52*	12" x 12" Gray with White Flecks Floor Tile with Yellow Mastic *mastic*	None Detected		100% Other	Yellow Non Fibrous Homogeneous Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (54)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP TESTING NVLAP LAB CODE 200664-0

AIHA ACCREDITED LABS.ORG Lab ID # 173190

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Michael Hamill

Project: 11652-E2/ Mount Vernon

Lab Order ID: 71984519
Analysis ID: 71984519_PLM
Date Received: 2/1/2022
Date Reported: 2/7/2022

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
35 - A *71984519PLM_36*	12" x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic *tile*	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous Crushed, Dissolved
35 - B *71984519PLM_53*	12" x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
36 - A *71984519PLM_37*	12" x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic *tile*	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous Crushed, Dissolved
36 - B *71984519PLM_54*	12" x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
37 *71984519PLM_38*	2' x 4' White Pinhole Ceiling Tile	**6% Chrysotile** **5% Amosite**	**85% Fiber Glass**	**4% Other**	Gray, White Fibrous Heterogeneous Teased, Crushed
38 *71984519PLM_39*	2' x 4' White Pinhole Ceiling Tile	**5% Chrysotile** **5% Amosite**	**85% Fiber Glass**	**5% Other**	Gray, White Fibrous Heterogeneous Teased, Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (54)

Analyst

Approved Signatory

1198519

Client:	ECS Mid-Atlantic, LLC	***Instructions:***
Contact:	Michael Hamill	*Use Column "B" for your contact info*
Address:	14026 Thunderbolt Place, Suite	
Phone:	(703)-471-8400	*To See en Example Click the bottom Example Tab.*
Fax:		
Email:	mhamill@ecslimited.com	***Enter samples between "<<" and ">>" Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Project:	11652-E2/ Mount Vernon	
Client Notes:		*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	11652-E2/ Mount Vernon	*Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.*
Date Submitted:	1/28/2022 0:00	
Analysis:	PLM EPA 600/R-93/116	
TurnAroundTime:	72 hour	

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
1		Plaster Ceiling	Hall by Room 118
2		Plaster Ceiling	Closet by Room 105
3		Plaster Ceiling	Room 219
4		Light Rough Coat Plaster Ceiling	Hall by Room 117
5		Light Rough Coat Plaster Ceiling	Hall by Room 228
6		Light Rough Coat Plaster Ceiling	Hall by Room 228
7		Dark Patch Rough Coat Plaster Ceiling	Hall by Room 117
8		Dark Patch Rough Coat Plaster Ceiling	Hall by Room 219
9		Dark Patch Rough Coat Plaster Ceiling	Hall by Room 219
10		Gray Leveling Compound	Cafeteria
11		Gray Leveling Compound	Hall by Room 209
12		Plaster Wall	Cafeteria
13		Plaster Wall	Room 319
14		Plaster Wall	Hall by Room 322
		Plaster Wall	Room 232
15		White Drywall Wallboard	Room 118
16		White Drywall Wallboard	Room 118
17		White Drywall Joint Compound	Room 118
18		White Drywall Joint Compound	Room 118
19		Gray Drywall Ceiling Board	Cafeteria
20		Gray Drywall Ceiling Board	Cafeteria
21		Brown Fiberboard with Felt Paper	Room 118
22		Brown Fiberboard with Felt Paper	Room 118
23		White Fiberglass Pipe Insulation Wrap Mastic	Room 118
24		White Fiberglass Pipe Insulation Wrap Mastic	Boiler Room
25		White Fiberglass Pipe Insulation Wrap Mastic	Boiler Room
26		Black Waterproofing Paint	Room 123
27		Black Waterproofing Paint	Room 123
28		Black Waterproofing Paint	Room 123
29		Gray Sink Undercoat	Room 123
30		Gray Sink Undercoat	Room 105
31		12" x 12" White with Blue Flecks Floor Tile with Yellow Mastic	Hall by Room 123
32		12" x 12" White with Blue Flecks Floor Tile with Yellow Mastic	Hall by Room 123
33		12" x 12" Gray with White Flecks Floor Tile with Yellow Mastic	Hall by Room 123
34		12" x 12" Gray with White Flecks Floor Tile with Yellow Mastic	Hall by Room 123
35		12" x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic	A/V Room
36		12" x 12" Beige with Gray Streaks Floor Tile with Yellow Mastic	Media
37		2' x 4' White Pinhole Ceiling Tile	Room 103
38		2' x 4' White Pinhole Ceiling Tile	Room 103
>>			

2/1 10:30A

Accepted ☒

Returned ☐

Relinquished By

Received By

Appendix V: Certifications/ Licenses

License Details

Name	HAMILL, MICHAEL PETER
License Number	3303003941
License Description	Asbestos Inspector License
Rank	Asbestos Inspector
Address	NATIONAL HARBOR, MD 20745
Initial Certification Date	2014-04-16
Expiration Date	2022-04-30

The license information in this application was last updated at Tue Apr 26 02:50:17 EDT.

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
12-31-2022

NUMBER
3303004832

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS INSPECTOR LICENSE

ZACHARY DAVID HARRELL
1927 N CAMERON ST
ARLINGTON, VA 22207

DPOR

Mary Broz-Vaughan, Director

Status can be verified at http://www.dpor.virginia.gov

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)

DPOR COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS INSPECTOR LICENSE
NUMBER: 3303004832 EXPIRES: 12-31-2022

ZACHARY DAVID HARRELL
1927 N CAMERON ST
ARLINGTON, VA 22207

(FOLD)

Status can be verified at http://www.dpor.virginia.gov

DPOR-PC (02/2017)

Appendix VI: AHERA ACBM and Suspect ACBM Categories Document

AHERA ACBM and Suspect ACBM Categories

(1) Damaged or significantly damaged thermal system insulation ACM:

- (1) Means thermal system insulation ACM on pipes, boilers, tanks, ducts, and other thermal system insulation equipment where the insulation has lost its structural integrity, or its covering, in whole or in part, is crushed, water stained, gouged, punctured, missing, or not intact such that it is not able to contain fibers. Damage may be further illustrated by occasional punctures, gouges or other signs of physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris originating from the ACBM in question may also indicate damage.

(2) Damaged friable surfacing ACM:

- (2) Means friable surfacing ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or which has delaminated such that its bond to the substrate (adhesion) is inadequate, or which, for any other reason, lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

(3) Significantly damaged friable surfacing ACM:

- (3) Means damaged friable surfacing ACM in a functional space where the damage is extensive and severe.

(4) Damaged or significantly damaged friable miscellaneous ACM:

- (4) Means friable miscellaneous ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

(5) ACBM with potential for damage:

- (5) Means circumstances in which:

    - (1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities.

- (2) There are indications that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.

(6) ACBM with potential for significant damage:

- (6) Means circumstances in which:

  - (1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities.

  - (2) There are indications that there is a reasonable likelihood that the material or its covering will become significantly damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.

  - (3) The material is subject to major or continuing disturbance, due to factors including, but not limited to, accessibility or, under certain circumstances, vibration or air erosion.

(7) Any remaining friable ACBM or friable suspected ACBM:

- (1) Means any remaining friable ACBM or friable Suspected ACBM in a building.

Appendix VII: Previous Reports

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

March 10, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS - Mount Vernon Abatement Monitoring**
ECS Job # **47:11652-B**

Permits:
Location: **2601 Commonwealth Ave Alexandria, VA 22305**

X	Field Reports	**X**	For your use	**X**	As requested

CC:

ENCL: Field Report # 1 3/3/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

Michael P. Hamill, CIH
Environmental Senior Project Manager

Disclaimer

1. *This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.*
2. *The information in this report relates only to the activities performed on the report date.*
3. *Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.*
4. *Incomplete or non-conforming work will be reported for future resolution.*
5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS - Mount Vernon Abatement Monitoring**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-B**
Report No.	**1**
Day & Date	**Wednesday 3/3/2021**
Weather	**45 °/ Sunny**
On-Site Time	**7.00**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**7.00**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Time of	Arrival	Departure
Chargeable Items				**6:30A**	**1:30P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The work activities scheduled for today's shift are removal of asbestos-containing black pipe bridging mastic and associated pipe insulation from the exterior loading dock entryway.

EXTERIOR LOADINING DOCK WORK AREA

At 6:30 am, the undersigned spoke with Waco's supervisor to discuss the work activities for the day. The abatement contractor began setting up several critical barriers and laid down 6-mil poly sheeting within the general vicinity of the work area. One microtrap negative air filtration unit was added to the critical barriers.

At 7:30 am, the abatement contractor requested a pre-abatement survey of the regulated work area. The Pre-Abatement Checklist was completed and is attached to this report.

At 7:44 am am, PCM air samples were started inside and outside the work area. The sampling pumps were calibrated using a rotameter to 2.5 liters per minute.

At 11:45 am, the sampling pumps were checked using a rotameter. The flow rate was 2.5 liters per minute. The PCM air samples were stopped and gathered for analysis from inside and outside the work area. A new set of PCM were started inside and outside the work area which were calibrated at a flow rate of 2.5 liters per minute.

At 1:15 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.5 liters per minute. The PCM air samples were stopped and gathered for analysis from inside and outside the work area.

At 1:15 pm, the abatement contractor stated the specified material had been removed from the regulated work area and requested a final visual survey. The Final Clearance Visual Survey Checklist was completed and is attached to this report. In general, the Category II non-friable ACM mastic was removed

intact, therefore final clearance samples are not required by the applicable regulations.

GENERAL

ECS observed the abatement contractor placing the specified asbestos-containing materials in approved containers and 6-mil polyethylene bags which were double-bagged and sealed in general accordance with applicable regulations. The waste bags were placed in the abatement contractor's van for offsite disposal.

The regulated work area was surveyed to evaluate general compliance with the project specifications and applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

The PCM air sample cassettes was prepared and analyzed for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody which is attached.

The US EPA and Commonwealth of Virginia re-occupancy limit is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). The outside work area samples collected were reported below the re-occupancy limit which meet the project requirements.

The sample results reflect the conditions where the air samples were collected at the times and dates of collection.

Attachments



View of the Exterior Loading Dock Work Area.

Figure 1



View of Water Sprayer.

Figure 2



View of Negative Air Machines.

Figure 3



View of Asbestos-Containing Black Pipe Bridging Mastic.

Figure 4

Attachments



View of the work area following abatement activities.

Figure 5

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-B
Project Address: 2601 Commonwealth Ave
Alexandria, VA-22305

Date:
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
0303021-01AF	OWA by Critical Barrier Entrance	7:44 AM	11:45 AM	2.5	2.5	2.5	241	602.5	8.0	100	0.007
030321-02AF	IWA	7:44 AM	11:45 AM	2.5	2.5	2.5	241	602.5	31.5	100	0.026
030321-03AF	OWA by Critical Barrier Entrance	11:45 AM	1:15 PM	2.5	2.5	2.5	90	225.0	1.0	100	0.002
030321-04AF	IWA	11:45 AM	1:15 PM	2.5	2.5	2.5	90	225.0	6.0	100	0.013
030321-05AF	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
030321-06AF	Box Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: The US EPA and Commonwealth of Virginia re-occupancy limit is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). The outside work area samples collected were reported below the re-occupancy limit.

ECS Technician: Anna C. Franciosa

Date:

ECS Mid-Atlantic, LLC

Final Clearance Checklist

Project Number: 47:11652-B **Date:** 3/10/2021

Project Address: 2601 Commonwealth Ave
Alexandria, VA-22305

Work Area Location/Description: Exterior Loading Dock Courtyard / Black Pipe Bridging Mastic Removal

	Work Area Location/Description	Exterior Loading Dock Courtyard /
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	N/A
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	Floors	Satisfactory
	Walls	Satisfactory
	Ceiling	Satisfactory
	Windows	N/A
	Mechanical Equipment	N/A
	Ducts	N/A
	Pipes	Satisfactory
	Lighting	Satisfactory
	Other Surfaces	Satisfactory
	Specified ACM Removed	Satisfactory
	Work Area Encapsulated	Satisfactory
	Negative Air Filtration Functioning	Satisfactory
	Waste Bags Removed	Satisfactory
	Final Clearance Air Sample Type	N/A
	Number of Samples Collected	N/A
	Sample Volume (liters)	N/A
	Work Area Acceptable	Yes

Notes: In general, the Category II non-friable ACM mastic was removed intact, therefore final clearance samples are not required by the applicable regulations.

ECS Technician: John A O'Neil **Date:** 3/10/2021

ECS Mid-Atlantic, LLC

Pre-Abatement Work Area Checklist

Project Number: 47:11652-B **Date:** 3/10/2021

Project Address: 2601 Commonwealth Ave
Alexandria, VA-22305

Work Area Location/Description: Exterior Loading Dock Courtyard / Black Pipe Bridging Mastic Removal

	Work Area Location/Description	Exterior Loading Dock Courtyard /
Administrative	Training Certificates/Licenses	Satisfactory
	Permits	N/A
	EPA/State/Local Notification	Satisfactory
Work Area	Public Access Restricted	Satisfactory
	Warning Signs/Tape Posted	Satisfactory
Negative Air Filtration	Number of Units	1
	Pre-Filters In-Use/Available	Satisfactory
	Exhausted from Work Area	Satisfactory
	Pressure Differential Monometer Operating	N/A
Equipment	HEPA Vacuum Available	Satisfactory
	Amended Water Sprayers	Satisfactory
Decontamination Enclosure	Clean Room	Satisfactory
	Shower Water Available	N/A
	Waste Water Filtration In-Use	N/A
	Disposable Towels	Satisfactory
	Soap	Satisfactory
	Equipment Room	N/A
Personal Protective Equipment	Type of Respirator	Half Face APR
	Type of Filters Used	P100
	Disposable Protective Clothing	Satisfactory
	Work Area Acceptable	Yes

Notes: The ACM mastic is scheduled to be removed intact. Drop cloth and poly flaps were utilized to demarcate the work area.

ECS Technician: John A O'Neil **Date:** 3/10/2021

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-B **Date:** 3/10/2021

Project Address: 2601 Commonwealth Ave
Alexandria, VA-22305

Work Area Location/Description: Exterior Loading Dock Courtyard / Black Pipe Bridging Mastic Removal

	Work Area Location/Description	Exterior Loading Dock Courtyard /
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	N/A
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	4
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: John A O'Neil **Date:** 3/10/2021

LIMITED ASBESTOS-CONTAINING MATERIALS SURVEY

MOUNT VERNON ELEMENTARY SCHOOL

LIMITED ROOF SAMPLING

2601 COMMONWEALTH AVENUE
ALEXANDRIA, VIRGINIA 22314

ECS PROJECT NO. 47:1519-B1

FOR

ALEXANDRIA CITY PUBLIC SCHOOLS

JUNE 6, 2017

June 6, 2017

Mr. John Finnigan
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
john.finnigan@acps.k12.va.us

ECS Project No. 47:1519-B1

Reference: Limited Asbestos-Containing Materials Survey, Mount Vernon Elementary School - Limited Roof Sampling, 2601 Commonwealth Avenue, Alexandria, Virginia

Dear Mr. Finnigan:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced Limited Asbestos-Containing Materials Survey performed at Mount Vernon Elementary School located at 2601 Commonwealth Avenue in Alexandria, Virginia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:4510-EP and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Alexandria City Public Schools with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

Israel Santana, III
Environmental Project Manager
isantana@ecslimited.com
703-471-8400

Beverly Sedon
Senior Project Manager
bsedon@ecslimited.com
703-471-8400

EXECUTIVE SUMMARY

The site is improved with Mount Vernon Elementary School which is located at 2601 Commonwealth Avenue in Alexandria, Virginia. The school is currently occupied and utilized as a elementary school. The proposed renovations will consist of new HVAC systems being installed on the roof of the school.

The purpose of the survey was to determine if asbestos-containing materials (ACMs) are present on the roof where the new HVAC units will be located. This sampling event was performed only for those specific locations that will be impacted by the new HVAC units and associated installation.

During our assessment, a total of eight bulk samples were collected and a total of eighteen layers were analyzed by the laboratory. Based on the laboratory analysis of the bulk samples collected during the survey, asbestos was not detected in the samples of roofing materials where the HVAC system will be replaced.

TABLE OF CONTENTS

PAGE

1.0 SITE DESCRIPTION 1

2.0 PURPOSE 1

3.0 METHODOLOGY 1

3.1 Asbestos-Containing Materials 1

4.0 RESULTS 2

4.1 Asbestos-Containing Materials 2

4.2 Suspect or Assumed Asbestos-Containing Materials 2

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS 2

5.1 Asbestos-Containing Materials 2

6.0 LIMITATIONS 2

TABLE OF APPENDICES

Appendix I: Site Photographs

Appendix II: Bulk Sampling of Suspect ACMs

Appendix III: Asbestos Laboratory Analytical Report

1.0 SITE DESCRIPTION

The site is improved with Mount Vernon Elementary School which is located at 2601 Commonwealth Avenue in Alexandria, Virginia. The school is currently occupied and is utilized as an elementary school. The propsoed renovations will consist of new HVAC units on the roof of the school.

2.0 PURPOSE

The purpose of the Limited Asbestos-Containing Materials Survey was to identify asbestos-containing materials (ACMs) which may require special handling and/or disposal if removed during construction activities. The identification of ACMs may require trained labor, regulated work practices, and special disposal. The survey was limited to the specific locations where the HVAC units will be located. No other areas of the building or roof were included in the assessment at this time.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of ACMs.

3.1 Asbestos-Containing Materials

The non-invasive asbestos survey was performed by a Commonwealth Virginia licensed asbestos inspector (VA License Number 3303003536). Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis.

Unique bulk suspect ACM samples were submitted to Scientific Analytical Institute, Inc. (SAI) in Greensboro, NC for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis by currently approved EPA methodology by PLM.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas. ECS notes that the survey was only conducted on the roof where new HVAC units are proposed to be installed.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

Asbestos-Containing Material (ACMs) are defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM. A list of materials sampled and submitted for analysis and their reported analytical results is attached to this report.

Based on the laboratory results of the collected samples, none of the materials submitted for analysis were reported to contain asbestos.

4.2 Suspect or Assumed Asbestos-Containing Materials

Under the scope of services for this project ECS did not survey or test for additional materials. Other suspect ACMs may be present within the building.

If additional materials not referenced in this report are discovered during renovation, they should be assumed to contain asbestos and be treated as asbestos-containing materials (ACMs) or, otherwise, sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Limited Asbestos-Containing Materials Survey including future plans for renovation, the laboratory analysis, our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

None of the bulk samples submitted to SAI were reported to contain detectable concentrations of asbestos. Please note the survey was limited to the areas proposed for disturbance on the roof associated with the HVAC unit replacement. This report and assessment does not constitute a complete evaluation of all materials for the roof.

If additional suspect asbestos-containing materials are uncovered which were not accessible during this sampling event, it is recommended that these materials be sampled or tested immediately upon discovery for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, samples were submitted for analysis at an accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

Appendix I: Site Photographs



1 - View of RTU to be replaced.



2 - View of flashing sampled from the RTU.



3 - View of sealant on flashing sampled from the RTU.



4 - View of small air condition unit to be replaced.



5 - View of pipe pitch pocket sampled from the small air condition unit.



6 - View of small air condition unit to be replaced.



7 - View of pipe pitch pocket sampled from the small air condition unit.

Appendix II: Bulk Sampling of Suspect ACMs

TABLE I

BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
1	Roof	Mechaincal HVAC System Flashing (RTU)	NAD
2	Roof	Mechaincal HVAC System Flashing (RTU)	NAD
3	Roof	Mechaincal HVAC System Flashing Caulk (RTU)	NAD
4	Roof	Mechaincal HVAC System Flashing Caulk (RTU)	NAD
5A	Roof	Small Air Condition Unit Pipe Pitch Pocket (White Caulk)	NAD
5B	Roof	Small Air Condition Unit Pipe Pitch Pocket (Beige Caulk)	NAD
5C	Roof	Small Air Condition Unit Pipe Pitch Pocket (Gray Caulk)	NAD
5D	Roof	Small Air Condition Unit Pipe Pitch Pocket (Black Caulk)	NAD
6A	Roof	Small Air Condition Unit Pipe Pitch Pocket (White Caulk)	NAD
6B	Roof	Small Air Condition Unit Pipe Pitch Pocket (Beige Caulk)	NAD
6C	Roof	Small Air Condition Unit Pipe Pitch Pocket (Gray Caulk)	NAD
6D	Roof	Small Air Condition Unit Pipe Pitch Pocket (Black Caulk)	NAD
7A	Roof	Small Air Condition Unit Pipe Pitch Pocket (Gray Caulk)	NAD
7B	Roof	Small Air Condition Unit Pipe Pitch Pocket (Tan Caulk)	NAD
7C	Roof	Small Air Condition Unit Pipe Pitch Pocket (Black Caulk)	NAD
8A	Roof	Small Air Condition Unit Pipe Pitch Pocket (Gray Caulk)	NAD
8B	Roof	Small Air Condition Unit Pipe Pitch Pocket (Tan Caulk)	NAD
8C	Roof	Small Air Condition Unit Pipe Pitch Pocket (Black Caulk)	NAD

Table Notes:
NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

Appendix III: Asbestos Laboratory Analytical Report

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Beverly Sedon

Project: Mt. Vernon ES-ACPS

Lab Order ID: 1706650
Analysis ID: 1706650_PLM
Date Received: 3/31/2017
Date Reported: 3/31/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1 *1706650PLM_9*	Mechanical HVAC System Flashing (RTU)	**None Detected**	**85% Cellulose**	**15% Other**	Brown, Black Fibrous Heterogeneous Teased, Crushed
2 *1706650PLM_10*	Mechanical HVAC System Flashing (RTU)	**None Detected**	**85% Cellulose**	**15% Other**	Brown, Black Fibrous Heterogeneous Teased, Crushed
3 *1706650PLM_11*	Mechanical HVAC Unit Flashing Caulk (RTU)	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed
4 *1706650PLM_12*	Mechanical HVAC Unit Flashing Caulk (RTU)	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed
5 - A *1706650PLM_13*	Small Air Condition Unit Pipe Pitch Pocket *white caulk*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed, Ashed
5 - B *1706650PLM_17*	Small Air Condition Unit Pipe Pitch Pocket *beige caulk*	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous Crushed, Ashed
5 - C *1706650PLM_18*	Small Air Condition Unit Pipe Pitch Pocket *gray caulk*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed
5 - D *1706650PLM_19*	Small Air Condition Unit Pipe Pitch Pocket *black caulk*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Crushed, Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (18)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Beverly Sedon

Project: Mt. Vernon ES-ACPS

Lab Order ID: 1706650
Analysis ID: 1706650_PLM
Date Received: 3/31/2017
Date Reported: 3/31/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
6 - A *1706650PLM_14*	Small Air Condition Unit Pipe Pitch Pocket *white caulk*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed, Ashed
6 - B *1706650PLM_20*	Small Air Condition Unit Pipe Pitch Pocket *beige caulk*	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous Crushed, Ashed
6 - C *1706650PLM_21*	Small Air Condition Unit Pipe Pitch Pocket *gray caulk*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed
6 - D *1706650PLM_22*	Small Air Condition Unit Pipe Pitch Pocket *black caulk*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Crushed, Ashed
7 - A *1706650PLM_15*	Small Air Condition Unit Pipe Pitch Pocket *gray caulk*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed
7 - B *1706650PLM_23*	Small Air Condition Unit Pipe Pitch Pocket *tan caulk*	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous Crushed, Ashed
7 - C *1706650PLM_24*	Small Air Condition Unit Pipe Pitch Pocket *black caulk*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Crushed
8 - A *1706650PLM_16*	Small Air Condition Unit Pipe Pitch Pocket *gray caulk*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (18)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Beverly Sedon

Project: Mt. Vernon ES-ACPS

Lab Order ID: 1706650
Analysis ID: 1706650_PLM
Date Received: 3/31/2017
Date Reported: 3/31/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
8 - B	Small Air Condition Unit Pipe Pitch Pocket	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous
1706650PLM_25	*tan caulk*				Crushed, Ashed
8 - C	Small Air Condition Unit Pipe Pitch Pocket	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1706650PLM_26	*black caulk*				Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (18)

Analyst

Approved Signatory

Client:	ECS Mid-Atlantic, LLC	***Instructions:***
Contact:	Beverly Sedon	*Use Column "B" for your contact info*
Address:	14026 Thunderbolt Place,	
Phone:	(703)-471-8400	*To See an Example Click the bottom Example Tab.*
Fax:		
Email:	bsedon@ecslimited.com	
		Enter samples between "<<" and ">>"
Project:	Mt. Vernon ES-ACPS	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Client Notes:	**POSITIVE STOP (Except on Plaster and Drywall Samples)**	*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	1519	*Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.*
Date Submitted:	3/29/2017 0:00	
Analysis:	PLM EPA 600/R-93/116	
TurnAroundTime:	24 hour	

1701650

Scientific Analytical Institute
4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Sample Description	Data 2
<<		
1	Mechanical HVAC System Flashing (RTU)	Roof Above 2nd Floor
2	Mechanical HVAC System Flashing (RTU)	Roof Above 2nd Floor
3	Mechanical HVAC Unit Flashing Caulk (RTU)	Roof Above 2nd Floor
4	Mechanical HVAC Unit Flashing Caulk (RTU)	Roof Above 2nd Floor
5	Small Air Condition Unit Pipe Pitch Pocket	Roof Above 2nd Floor
6	Small Air Condition Unit Pipe Pitch Pocket	Roof Above 2nd Floor
7	Small Air Condition Unit Pipe Pitch Pocket	Roof Above 2nd Floor Lower Roof
8	Small Air Condition Unit Pipe Pitch Pocket	Roof Above 2nd Floor Lower Roof
>>		

Accepted ☑

Rejected ☐

3/31
930A

LIMITED ASBESTOS-CONTAINING MATERIALS SURVEY



MOUNT VERNON COMMUNITY SCHOOL

2601 COMMONWEALTH AVENUE
ALEXANDRIA, VIRGINIA 22305

ECS PROJECT NO. 47:1519-G3

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

MAY 22, 2020

May 22, 2020

Mr. Paul May
Alexandria City Public Schools
1340 Braddock Place
6th Floor - Facilities
Alexandria, Virginia 22314
paul.may@acps.k12.va.us

ECS Project No. 47:1519-G3

Reference: Limited Asbestos-Containing Materials Survey, Mount Vernon Community School, 2601 Commonwealth Avenue, Alexandria, Virginia

Dear Mr. May:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced Limited Asbestos-Containing Materials Survey performed at Mount Vernon Community School located at 2601 Commonwealth Avenue in Alexandria, Virginia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:13998-EP and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Alexandria City Public Schools with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

Anna C. Franciosa, E.I.T.
Project Manager
afranciosa@ecslimited.com
202-400-2188

Michael Hamill, CIH
Senior Project Manager
MHamill@ecslimited.com
703-471-8400

EXECUTIVE SUMMARY

The subject property is improved with the Mount Vernon Community School located at 2601 Commonwealth Avenue, in Alexandria, Virginia. The school is currently partially occupied and utilized as an elementary school. The school is proposed for renovations of its kitchen and cafeteria. According to Ms. Carol Cheney, of the Alexandria City Public Schools (ACPS) Facilities Team, the proposed renovations will be mainly superficial with no significant renovations to the building's HVAC systems.

The purpose of the survey was to determine if asbestos-containing materials (ACMs) are located within the cafeteria and kitchen that may be disturbed during proposed renovations. No other interior or exterior areas of the school were included in this survey. The school was not in session at the time of the survey.

Based on the laboratory analysis of the bulk samples collected during the survey, the following materials were reported to contain asbestos:

- Unknown Size Gray/Beige Vinyl Floor Tiles and associated Black Mastic (Layer 3);
- 12" x 12" Tan Mottled Vinyl Floor Tiles and associated Black Mastic; and
- Tan Interior Door Caulk.

Recommendations regarding the removal and disposal of the ACMs identified by ECS can be found in Section 5.0 of this report.

The executive summary is an integral portion of this report, however, ECS recommends the report be read in its entirety.

TABLE OF CONTENTS

PAGE

1.0 SITE DESCRIPTION 1

2.0 PURPOSE 1

3.0 METHODOLOGY 1

3.1 Asbestos-Containing Materials 1

4.0 RESULTS 2

4.1 Asbestos-Containing Materials 2

4.2 Suspect or Assumed Asbestos-Containing Materials 4

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS 5

5.1 Asbestos-Containing Materials 5

6.0 LIMITATIONS 6

TABLE OF APPENDICES

Appendix I: Drawings

Appendix II: Site Photographs

Appendix III: Asbestos Bulk Sample Results

Appendix IV: Laboratory Report(s)

Appendix V: Certifications/Licenses

Appendix VI: Previous Reports

1.0 SITE DESCRIPTION

The subject property is improved with the Mount Vernon Community School located at 2601 Commonwealth Avenue, in Alexandria, Virginia. The school is currently partially occupied and utilized as an elementary school. The school is proposed for renovations of its kitchen and cafeteria. The cafeteria and kitchen are centrally located within the building. The cafeteria flooring system was comprised of vinyl floor tiles with CMU and plaster wall systems. Ceramic floor tiles and CMU walls were observed throughout the kitchen area. The cafeteria and kitchen both contained a suspended ceiling tile grid system.

According to Ms. Carol Cheney of the Alexandria City Public Schools (ACPS) Facilities Team, the proposed renovations will be mainly superficial with no significant renovations to the building's HVAC systems. ECS was requested to survey cafeteria and kitchen for suspect asbestos-containing materials that may be disturbed during proposed renovations. No other interior or exterior areas of the school were included in this survey. The school was not in session at the time of the survey.

2.0 PURPOSE

The purpose of the Limited Asbestos-Containing Materials Survey was to identify asbestos-containing materials (ACMs) which may require special handling and/or disposal if removed during construction activities. The identification of ACMs may require trained labor, regulated work practices, and special disposal.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of Asbestos-Containing Materials (ACMs).

3.1 Asbestos-Containing Materials

The non-destructive asbestos survey was performed by an asbestos inspector who has received EPA accredited training and is licensed by the Commonwealth of Virginia. Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were submitted to Scientific Analytical Institute, Inc. in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. Scientific Analytical Institute, Inc. is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis by currently approved EPA methodology by PLM.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

- Friable ACMs are defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. Non-friable ACMs are defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I non-friable ACM are listed as following: packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent (>1%) asbestos.
- Category II non-friable ACM are listed as any material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Regulated Asbestos Containing Materials (RACM) are friable ACM or non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or has crumbled, been pulverized, or reduced to powder in the course of renovation and/or demolition operations.

Five of the bulk samples submitted for analysis were reported to contain asbestos in detectable concentrations. These materials are summarized below. A complete list of the sampled materials submitted for analysis and sample locations are located in the Appendix of this report. Additional details regarding the overall locations of the materials identified as asbestos-containing are provided further in the report. Photographs of collected samples reported as asbestos-containing are also located in the Appendix of this report.

In total, 32 bulk samples from 15 homogeneous areas were submitted to the laboratory of which 43 layers were analyzed.

Summary of Asbestos-Containing Materials Identified

Location	Material Description	Analytical Results	Category	Estimated Quantity
Cafeteria	Unknown Size Gray/Beige Vinyl Floor Tile (Layer 3)and associated Black Mastic	Tile-5% Chrysotile Mastic-8% Chrysotile	Category I: Non-Friable	7,750 SF
Kitchen Manager Office & Staff Locker Room	12" x 12" Tan Mottled Vinyl Floor Tileand associated Black Mastic	Tile-5% Chrysotile Mastic-10% Chrysotile	Category I: Non-Friable	250 SF
Kitchen	Tan Interior Door Caulk	5% Chrysotile	Category II: Non-Friable	100 LF
SF: Square Feet; LF: Linear Feet **Note: Quantity estimates are based on approximate measurements as paced out by ECS during the site visit.**				

Flooring Materials:

Multiple layers of vinyl floor tiles were observed throughout the cafeteria. The third layer of vinyl floor tiles, an unknown sized gray/beige vinyl floor tile, and associated black mastic were reported to contain asbestos. These floor tiles appeared to be limited to the cafeteria area. Including a 20% contingency factor, approximately 7,750 square feet of unknown sized gray/beige vinyl floor tiles and associated black mastic are located in the cafeteria.

Asbestos-containing 12" x 12" tan mottled vinyl floor tiles and associated black mastic were observed in the kitchen manager's office. The majority of the kitchen area was covered with ceramic tiles. The 12" x 12" tan mottled vinyl floor tiles were also observed in the staff locker room off of the staff bathroom. Including a 20% contingency factor, approximately 200 square feet of 12" x 12" tan mottled vinyl floor tiles are located in these areas.

Note: The first and second layers of vinyl floor tiles and associated yellow mastics were not reported to contain asbestos in the cafeteria. The identified asbestos-containing flooring materials and associated floor mastics referenced above should be assumed to be present in other areas of the subject building including beneath furniture, shelves, carpet, cabinets, partition walls, etc.

Miscellaneous Materials:

Asbestos-containing tan interior door caulk was observed on the entryway between the kitchen and freezer/refrigerator area. Tan interior door caulk was not observed consistently throughout the kitchen and cafeteria areas. White interior door caulk, which was not reported to contain asbestos, was also observed on the entry doors to the cafeteria. In general, the tan interior door caulk

is presumed to be associated with original door casings. Including a 20% contingency factor, approximately 100 linear feet of asbestos-containing tan interior door caulk is located throughout the kitchen.

Previous Reports:

ECS previously performed other limited asbestos-containing material survey reportsat the Mount Vernon Community School (ESC Project No. 47:1519 dated February 2016, ECS Project No. 47:1519-B dated June 2016, and ECS Project No. 47:1519-B1 dated June 2017). Previous materials that were reported to be asbestos-containing included:

- 9" x 9" Green Floor Tiles within Classrooms 112 and 113;
- Black Mastic Associated with 9" x 9" Orange Floor Tiles within Classrooms 221; and
- Black Mastic on HVAC Duct Wrap within Room 224.

Copies of previous reports for the Mount Vernon Community School are included in the Appendix of this report.

4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc. These areas were deemed inaccessible and were not assessed.

If these materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

Based upon our past experience in the identification of ACMs in similarly constructed buildings, the following additional suspect ACMs may also be located in inaccessible areas of the structure:

- **Mastics/Adhesives** associated with ceramic floor tiles;
- **Mirror Mastics** behind and/or under mirrors;
- **Pipe Flange Gaskets** in heating and plumbing systems;
- **Acoustical Wall Boards** in the cafeteria;
- **Thermal System Insulation (TSI)** on pipes within chases behind walls and above ceilings;
- **Water Fountain Components**;
- Concrete Masonry Unit (Blocks/Walls) with **Vermiculite Filler**;
- **Fire Doors and associated Casing Insulation** in locations requiring a rated fire door and door casing;
- **Waterproofing Membrane/Mastics/Vapor Barriers** behind interior finishes and/or subgrade walls; and
- **Other Interior and Exterior Materials** outside the scope of this survey.

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Limited Asbestos-Containing Materials Survey, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

ECS recommends where a material type has been identified as asbestos-containing that other materials with similar color, texture, age and size throughout the building's interior and exterior be assumed to contain asbestos. Please refer to Section 4.1 for a complete list of building materials that were reported positive for asbestos and to Section 4.2 for materials that were assumed to contain asbestos.

Asbestos-containing materials to be disturbed as part of renovations/demolition must be properly removed by a Virginia-licensed asbestos abatement contractor prior to disturbance by construction activities. The Commonwealth of Virginia requires 20 calendar-days notice prior to the removal of friable ACM. The EPA requires 10 working days notice prior to removal of regulated ACM (RACM) in quantities greater than or equal to 160 square feet, 260 linear feet, or 35 cubic feet. Notification requirements in general will be dependent on the means/methods used by the contractor to abate the material found in the building.

If ACMs are to be removed, it is recommended that an industrial hygienist monitor the project. This involves collecting air samples from within and outside abatement work areas to monitor the asbestos abatement contractor's work practices over the course of the project. The industrial hygienist should evaluate if the asbestos abatement work is in accordance with project specifications, U.S. EPA regulation 40 CFR Part 61-National Emission Standards for Hazardous Air Pollutants Subpart M: National Emission Standard for Asbestos, and U.S. Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 – Asbestos in Construction. The industrial hygienist should assess each work area to monitor the removal of ACMs. Only after the industrial hygienist has determined the identified ACMs have been removed should final clearance air samples be collected (if necessary).

Suspect ACMs not observed due to inaccessibility or not sampled due to the destructive means that sampling would require may also be encountered during construction activities. At the time of the survey, only limited destructive means were used to locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, exterior areas, sub-grade sealants, flooring located below underlayments, vapor barriers, pipe trenches and other subsurface utilities, etc. If additional suspect ACMs are uncovered which were not accessible during this survey, it is recommended that these materials either be assumed to contain asbestos or be sampled prior to disturbance upon discovery for asbestos content by an asbestos inspector in accordance with 29 CFR 1926.1101.

ECS is currently preparing a project specification be prepared to delineate and quantify known and suspect hazardous and regulated materials in the buildings and to outline proper procedures for the abatement. This will help protect the owner's liability in better defining the scope of work

and contractors' roles and responsibilities in the abatement process and holding the contractor accountable for the performance of the project. The specification typically defines the Contractor's scope of work and outline requirements and procedures that must be followed for the project. The intent of the specification is to give performance requirements for the Contractor so that the project can be completed safely and in compliance with applicable federal and state regulations. Typically, the specification document serves as part of the site owner's contract with the contractor.

Should any identified ACM remain in place, ECS recommends the development and implementation of a site-specific Asbestos Operations and Maintenance Plan detailing routine maintenance and repair operations, contractor notification procedures, and all other requirements under OSHA – reference 29 CFR 1926.1101.

6.0 LIMITATIONS

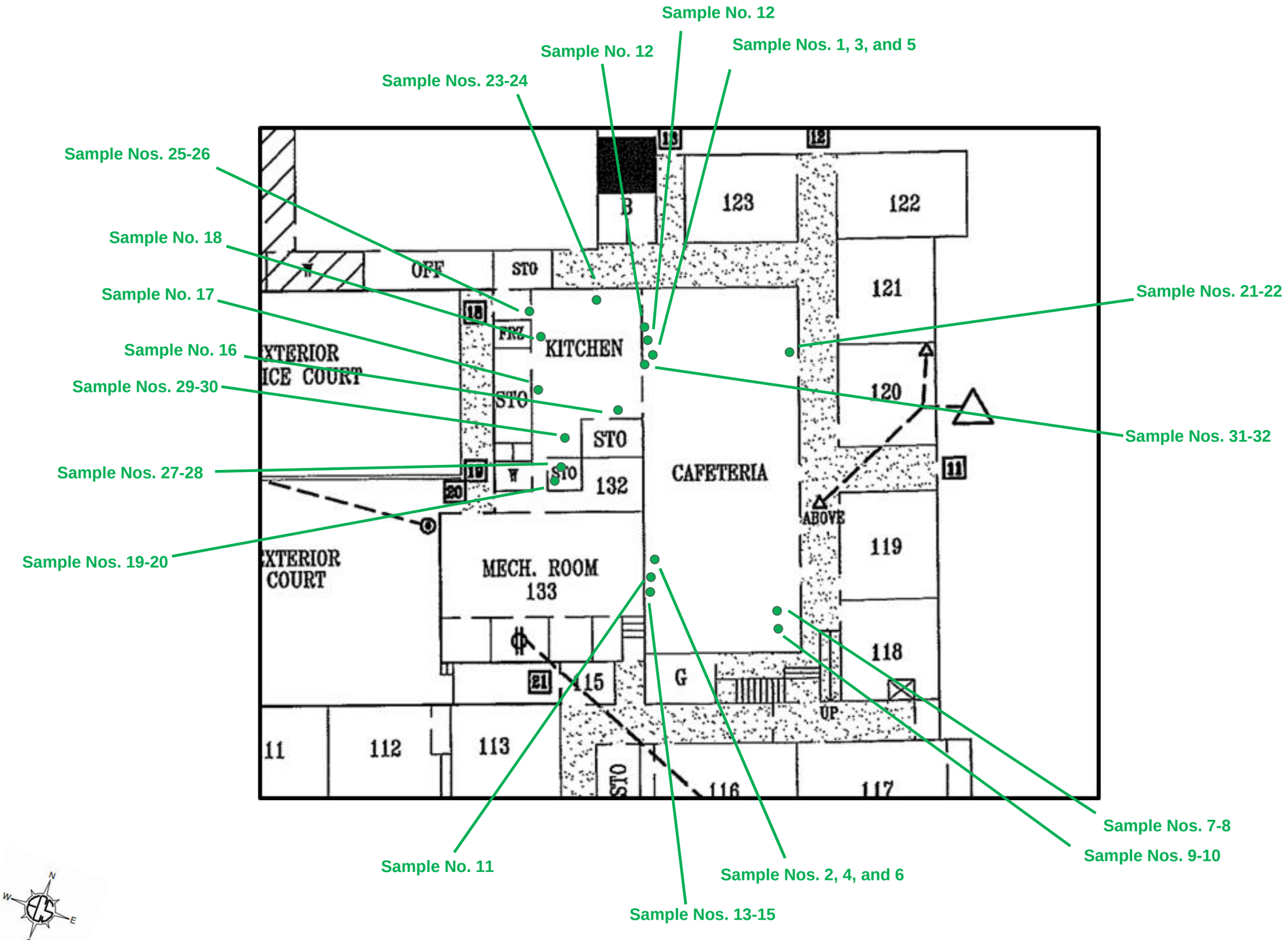
The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, samples were submitted for analysis at an accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No warranty, expressed or implied, is made.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

Appendix I: Drawings



Note: All Locations are Approximate.

MOUNT VERNON
COMMUNITY SCHOOL
KITCHEN/CAFETERIA

ECS

ASBESTOS-CONTAINING
MATERIAL SAMPLING
LOCATIONS

ECS REVISIONS

ENGINEER	DRAFTING
SRG	ACF

SCALE: Not to Scale

PROJECT NO.: 47:1519-G3

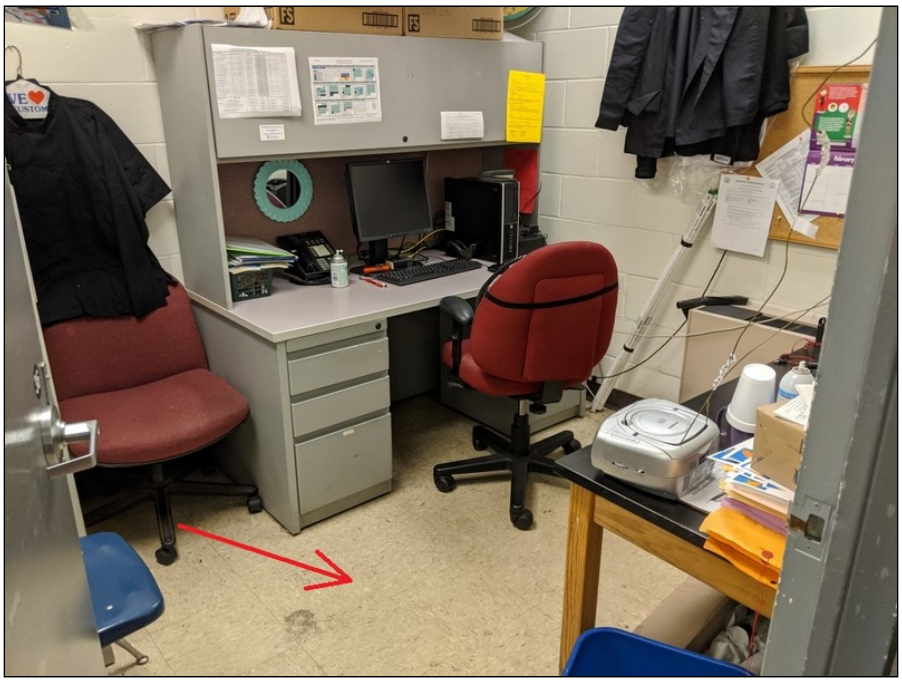
SHEET: 1 of 1

SITE VISIT: 3/17/20

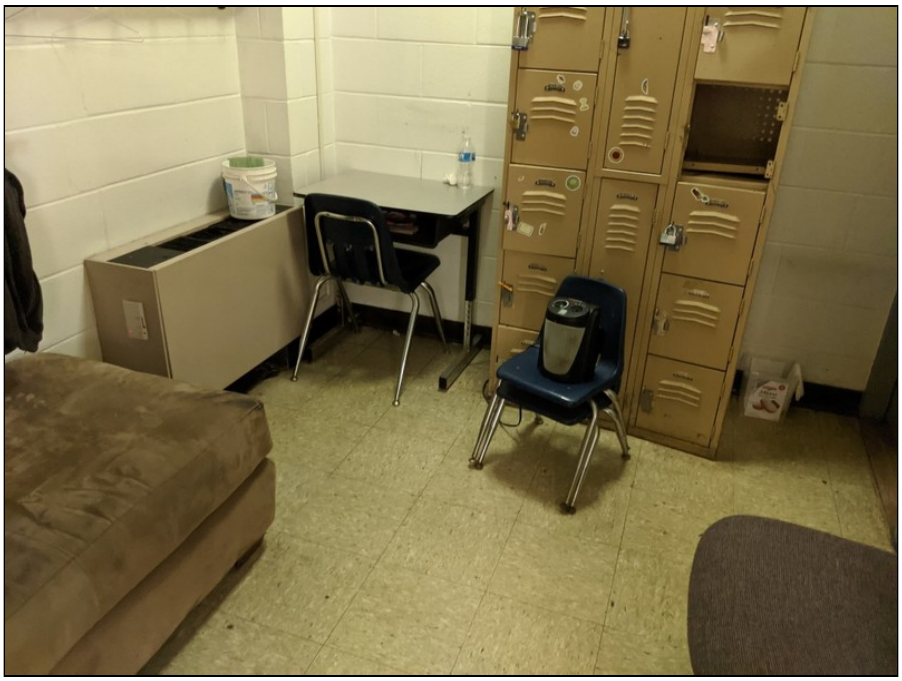
Appendix II: Site Photographs



1 - View of Asbestos-Containing Unknown Size Gray/Beige Vinyl Floor Tile & Associated Black Mastic (Layer 3) Sample Nos. 05-06



2 - View of Asbestos-Containing 12" x 12" Tan Mottled Vinyl Floor Tiles & Associated Black Mastic (Sample No. 19)



3 - View of Asbestos-Containing 12" x 12" Tan Mottled Vinyl Floor Tiles in Staff Locker Room



4 - View of Asbestos-Containing Tan Interior Door Caulk (Sample No. 25)



5 - View of Kitchen Area



6 - View of Cafeteria Area

Appendix III: Asbestos Bulk Sample Results

TABLE

SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

Sample #	Sampling Location	Material/Description	Analytical Results
01 - A	Cafeteria	12" x 12" Beige with Blue Streaks Vinyl Floor Tile(Layer 1)	NAD
01 - B	Cafeteria	Yellow Mastic Associated with 12" x 12" Beige with Blue Streaks Vinyl Floor Tile(Layer 1)	NAD
02 - A	Cafeteria	12" x 12" Beige with Blue Streaks Vinyl Floor Tile(Layer 1)	NAD
02 - B	Cafeteria	Yellow Mastic Associated with 12" x 12" Beige with Blue Streaks Vinyl Floor Tile(Layer 1)	NAD
03 - A	Cafeteria	Unknown Size Blue Vinyl Floor Tile (Layer 2)	NAD
03 - B	Cafeteria	Yellow Mastic Associated with Unknown Size Blue Vinyl Floor Tile (Layer 2)	NAD
04 - A	Cafeteria	Unknown Size Blue Vinyl Floor Tile (Layer 2)	NAD
04 - B	Cafeteria	Yellow Mastic Associated with Unknown Size Blue Vinyl Floor Tile (Layer 2)	NAD
5	**Cafeteria**	**Unknown Size Gray/Beige Vinyl Floor Tile (Layer 3)**	**Asbestos: 5% Chrysotile**
06 - A	**Cafeteria**	**Unknown Size Gray/Beige Vinyl Floor Tile (Layer 3)**	**N/A**
06 - B	**Cafeteria**	**Black Mastic Associated with Unknown Size Gray/Beige Vinyl Floor Tile (Layer 3)**	**Asbestos: 8% Chrysotile**
07 - A	Cafeteria	12" x 12" Blue Mottled Vinyl Floor Tile (Decorative Pattern Layer 1)	NAD
07 - B	Cafeteria	Yellow Mastic Associated with 12" x 12" Blue Mottled Vinyl Floor Tile (Decorative Pattern Layer 1)	Insufficient Sample
08 - A	Cafeteria	12" x 12" Blue Mottled Vinyl Floor Tile (Decorative Pattern Layer 1)	NAD
08 - B	Cafeteria	Yellow Mastic Associated with 12" x 12" Blue Mottled Vinyl Floor Tile (Decorative Pattern Layer 1)	NAD
09 - A	Cafeteria	12" x 12" Navy/Gray Vinyl Floor Tile (Decorative Pattern Layer 1)	NAD
09 - B	Cafeteria	Yellow Mastic Associated with 12" x 12" Navy/Gray Vinyl Floor Tile (Decorative Pattern Layer 1)	NAD
10 - A	Cafeteria	12" x 12" Navy/Gray Vinyl Floor Tile (Decorative Pattern Layer 1)	NAD
10 - B	Cafeteria	Yellow Mastic Associated with 12" x 12" Navy/Gray Vinyl Floor Tile (Decorative Pattern Layer 1)	NAD
11 - A	Cafeteria	4" Gray Covebase	NAD
11 - B	Cafeteria	Yellow Mastic Associated with 4" Gray Covebase	NAD
12 - A	Cafeteria	4" Gray Covebase	NAD
12 - B	Cafeteria	Yellow Mastic Associated with 4" Gray Covebase	NAD
13 - A	Cafeteria	2 Coat Wall Plaster - Finish	NAD
13 - B	Cafeteria	2 Coat Wall Plaster - Base	NAD
14 - A	Cafeteria	2 Coat Wall Plaster - Finish	NAD

Table Notes:
Bold = Asbestos-Containing Materials
N/A = Not Analyzed
NAD = No Asbestos Detected

TABLE

SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

Sample #	Sampling Location	Material/Description	Analytical Results
14 - B	Cafeteria	2 Coat Wall Plaster - Base	NAD
15 - A	Cafeteria	2 Coat Wall Plaster - Finish	NAD
15 - B	Cafeteria	2 Coat Wall Plaster - Base	NAD
16	Kitchen	CMU Wall Surfacing Compound	NAD
17	Kitchen	CMU Wall Surfacing Compound	NAD
18	Kitchen	CMU Wall Surfacing Compound	NAD
19 - A	**Kitchen Manager Office**	**12" x 12" Tan Mottled Vinyl Floor Tile**	**Asbestos: 5% Chrysotile**
19 - B	**Kitchen Manager Office**	**Black Mastic Associated with 12" x 12" Tan Mottled Vinyl Floor Tile**	**Asbestos: 10% Chrysotile**
20 - A	**Kitchen Manager Office**	**12" x 12" Tan Mottled Vinyl Floor Tile**	**N/A**
20 - B	**Kitchen Manager Office**	**Black Mastic Associated with 12" x 12" Tan Mottled Vinyl Floor Tile**	**N/A**
21	Cafeteria	White Interior Door Caulk	NAD
22	Cafeteria	White Interior Door Caulk	NAD
23	Kitchen	White Sink Caulk	NAD
24	Kitchen	White Sink Caulk	NAD
25	**Kitchen**	**Tan Interior Door Caulk**	**Asbestos: 5% Chrysotile**
26	**Kitchen**	**Tan Interior Door Caulk**	**N/A**
27	Kitchen Manager Office	2'x4' Pinhole with Fissures Ceiling Tile	NAD
28	Kitchen Manager Office	2'x4' Pinhole with Fissures Ceiling Tile	NAD
29	Kitchen	2'x4' Flat Ceiling Tile	NAD
30	Kitchen	2'x4' Flat Ceiling Tile	NAD
31	Kitchen/Cafeteria Entryway	White Ceramic Wall Tile Thin Set	NAD
32	Kitchen/Cafeteria Entryway	White Ceramic Wall Tile Thin Set	NAD

Table Notes:
Bold = Asbestos-Containing Materials
N/A = Not Analyzed
NAD = No Asbestos Detected

Appendix IV: Laboratory Report(s)

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP LAB CODE 200644-0

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Anna Franciosa
Michael Hamill

Project: Columbia Pike Library

Lab Order ID: 71938965
Analysis ID: 71938965_PLM
Date Received: 3/18/2020
Date Reported: 3/24/2020

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
01 - A *71938965PLM_1*	12" x 12" Beige with Blue Streaks Vinyl Floor Tile with Yellow Mastic (Layer 1) *tile*	**None Detected**		**100% Other**	Beige, Blue Non Fibrous Heterogeneous Dissolved
01 - B *71938965PLM_33*	12" x 12" Beige with Blue Streaks Vinyl Floor Tile with Yellow Mastic (Layer 1) *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
02 - A *71938965PLM_2*	12" x 12" Beige with Blue Streaks Vinyl Floor Tile with Yellow Mastic (Layer 1) *tile*	**None Detected**		**100% Other**	Beige, Blue Non Fibrous Heterogeneous Dissolved
02 - B *71938965PLM_34*	12" x 12" Beige with Blue Streaks Vinyl Floor Tile with Yellow Mastic (Layer 1) *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
03 - A *71938965PLM_3*	Unknown Size Blue Vinyl Floor Tile with Yellow Mastic (Layer 2) *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Heterogeneous Dissolved
03 - B *71938965PLM_35*	Unknown Size Blue Vinyl Floor Tile with Yellow Mastic (Layer 2) *mastic*	**None Detected**		**100% Other**	Yellow, Brown Non Fibrous Homogeneous Dissolved
04 - A *71938965PLM_4*	Unknown Size Blue Vinyl Floor Tile with Yellow Mastic (Layer 2) *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Heterogeneous Dissolved
04 - B *71938965PLM_36*	Unknown Size Blue Vinyl Floor Tile with Yellow Mastic (Layer 2) *mastic*	**None Detected**		**100% Other**	Yellow, Brown Non Fibrous Homogeneous Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Eloisa Blake (48)

Analyst

Approved Signatory

P-F-002 r15 1/16/2021

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP LAB CODE 200644-0

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Anna Franciosa
Michael Hamill

Project: Columbia Pike Library

Lab Order ID: 71938965
Analysis ID: 71938965_PLM
Date Received: 3/18/2020
Date Reported: 3/24/2020

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
05 *71938965PLM_5*	Unknown Size Bgray/Beige Vinyl Floor Tile with Black Mastic (Layer 3) *tile only*	**5% Chrysotile**		**95% Other**	Gray, Beige Non Fibrous Heterogeneous Dissolved
06 - A *71938965PLM_6*	Unknown Size Bgray/Beige Vinyl Floor Tile with Black Mastic (Layer 3) *tile*	**Not Analyzed**			
06 - B *71938965PLM_37*	Unknown Size Bgray/Beige Vinyl Floor Tile with Black Mastic (Layer 3) *mastic*	**8% Chrysotile**		**92% Other**	Black Non Fibrous Homogeneous Dissolved
07 - A *71938965PLM_7*	12" x 12" Blue Mottled Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1) *tile*	**None Detected**		**100% Other**	Blue, Gray Non Fibrous Heterogeneous Dissolved
07 - B *71938965PLM_38*	12" x 12" Blue Mottled Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1) *mastic - insufficient sample*	**Not Analyzed**			
08 - A *71938965PLM_8*	12" x 12" Blue Mottled Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1) *tile*	**None Detected**		**100% Other**	Blue, Gray Non Fibrous Heterogeneous Dissolved
08 - B *71938965PLM_39*	12" x 12" Blue Mottled Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1) *mastic - small sample*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
09 - A *71938965PLM_9*	12" x 12" Navy/Gray Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1)	**None Detected**		**100% Other**	Gray Non Fibrous Heterogeneous Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Eloisa Blake (48)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP LAB CODE 200644-0

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Anna Franciosa
Michael Hamill

Project: Columbia Pike Library

Lab Order ID: 71938965
Analysis ID: 71938965_PLM
Date Received: 3/18/2020
Date Reported: 3/24/2020

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
09 - B *71938965PLM_40*	12" x 12" Navy/Gray Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1) *mastic - small sample*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
10 - A *71938965PLM_10*	12" x 12" Navy/Gray Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1) *tile*	**None Detected**		**100% Other**	Gray Non Fibrous Heterogeneous Dissolved
10 - B *71938965PLM_41*	12" x 12" Navy/Gray Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1) *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
11 - A *71938965PLM_11*	4" Gray Covebase with Yellow Mastic *covebase*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved
11 - B *71938965PLM_42*	4" Gray Covebase with Yellow Mastic *mastic*	**None Detected**		**100% Other**	Cream Non Fibrous Homogeneous Dissolved
12 - A *71938965PLM_12*	4" Gray Covebase with Yellow Mastic *covebase*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved
12 - B *71938965PLM_43*	4" Gray Covebase with Yellow Mastic *mastic*	**None Detected**		**100% Other**	Cream Non Fibrous Homogeneous Dissolved
13 - A *71938965PLM_13*	2 Coat Wall Plaster *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Eloisa Blake (48)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP LAB CODE 200644-0

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Project: Columbia Pike Library

Attn: Anna Franciosa
Michael Hamill

Lab Order ID: 71938965
Analysis ID: 71938965_PLM
Date Received: 3/18/2020
Date Reported: 3/24/2020

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
13 - B	2 Coat Wall Plaster	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71938965PLM_44	*base*				Crushed
14 - A	2 Coat Wall Plaster	None Detected		100% Other	White Non Fibrous Homogeneous
71938965PLM_14	*finish*				Crushed
14 - B	2 Coat Wall Plaster	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71938965PLM_45	*base*				Crushed
15 - A	2 Coat Wall Plaster	None Detected		100% Other	White Non Fibrous Homogeneous
71938965PLM_15	*finish*				Crushed
15 - B	2 Coat Wall Plaster	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71938965PLM_46	*base*				Crushed
16	CMU Wall Surfacing Compound	None Detected		100% Other	Gray, White, Black Non Fibrous Heterogeneous
71938965PLM_16					Crushed
17	CMU Wall Surfacing Compound	None Detected		100% Other	Gray, White, Black Non Fibrous Heterogeneous
71938965PLM_17					Crushed
18	CMU Wall Surfacing Compound	None Detected		100% Other	Gray, White, Black Non Fibrous Heterogeneous
71938965PLM_18					Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Eloisa Blake (48)

Analyst

Approved Signatory

P-F-002 r15 1/16/2021

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP LAB CODE 200644-0

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Anna Franciosa
Michael Hamill

Project: Columbia Pike Library

Lab Order ID: 71938965
Analysis ID: 71938965_PLM
Date Received: 3/18/2020
Date Reported: 3/24/2020

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
19 - A *71938965PLM_19*	12" x 12" Tan Mottled Vinyl Floor Tile with Black Mastic *tile*	**5% Chrysotile**		**95% Other**	Tan Non Fibrous Heterogeneous Dissolved
19 - B *71938965PLM_47*	12" x 12" Tan Mottled Vinyl Floor Tile with Black Mastic *mastic*	**10% Chrysotile**		**90% Other**	Black Non Fibrous Homogeneous Dissolved
20 - A *71938965PLM_20*	12" x 12" Tan Mottled Vinyl Floor Tile with Black Mastic *tile*	**Not Analyzed**			
20 - B *71938965PLM_48*	12" x 12" Tan Mottled Vinyl Floor Tile with Black Mastic *mastic*	**Not Analyzed**			
21 *71938965PLM_21*	White Interior Door Caulk	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
22 *71938965PLM_22*	White Interior Door Caulk	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
23 *71938965PLM_23*	White Sink Caulk	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
24 *71938965PLM_24*	White Sink Caulk	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Eloisa Blake (48)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP LAB CODE 200644-0

Customer: ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Anna Franciosa
Michael Hamill

Project: Columbia Pike Library

Lab Order ID: 71938965
Analysis ID: 71938965_PLM
Date Received: 3/18/2020
Date Reported: 3/24/2020

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
25 *71938965PLM_25*	Tan Interior Door Caulk	**5% Chrysotile**		**95% Other**	Tan Non Fibrous Homogeneous Dissolved
26 *71938965PLM_26*	Tan Interior Door Caulk	**Not Analyzed**			
27 *71938965PLM_27*	2'x4' Pinhole with Fissures Ceiling Tile	**None Detected**	**40% Cellulose** **30% Fiber Glass**	**30% Other**	Grayish Fibrous Heterogeneous Teased, Ashed
28 *71938965PLM_28*	2'x4' Pinhole with Fissures Ceiling Tile	**None Detected**	**40% Cellulose** **30% Fiber Glass**	**30% Other**	Grayish Fibrous Heterogeneous Teased, Ashed
29 *71938965PLM_29*	2'x4' Flat Ceiling Tile	**None Detected**	**15% Cellulose**	**85% Other**	Grayish Non Fibrous Heterogeneous Crushed
30 *71938965PLM_30*	2'x4' Flat Ceiling Tile	**None Detected**	**15% Cellulose**	**85% Other**	Grayish Non Fibrous Heterogeneous Crushed
31 *71938965PLM_31*	White Ceramic Wall Tile Thin Set	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed, Dissolved
32 *71938965PLM_32*	White Ceramic Wall Tile Thin Set	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed, Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Eloisa Blake (48)

Analyst

Approved Signatory

71938965

Client:	ECS Mid-Atlantic, LLC
Contact:	Anna Franciosa
Address:	14026 Thunderbolt Place, Suite
Phone:	(703)-471-8400
Fax:	
Email:	afranciosa@ecslimited.com mhamill@ecslimited.com
Project:	Columbia Pike Library
Client Notes:	**Positive Stop**
P.O. #:	47:1519-G3
Date Submitted:	3/17/20
Analysis:	PLM EPA 600/R-93/116
TurnAroundTime:	5-Day TAT

Instructions:
Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.

Only Enter your data on the first sheet "Sheet1"

Note: Date 1 and Date 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Date 1	Sample Description	Date 2
<<			
01	HA1	12" x 12" Beige with Blue Streaks Vinyl Floor Tile with Yellow Mastic (Layer 1)	Cafeteria
02	HA1	12" x 12" Beige with Blue Streaks Vinyl Floor Tile with Yellow Mastic (Layer 1)	Cafeteria
03	HA2	Unknown Size Blue Vinyl Floor Tile with Yellow Mastic (Layer 2)	Cafeteria
04	HA2	Unknown Size Blue Vinyl Floor Tile with Yellow Mastic (Layer 2)	Cafeteria
05	HA3	Unknown Size Bgray/Beige Vinyl Floor Tile with Black Mastic (Layer 3)	Cafeteria
06	HA3	Unknown Size Bgray/Beige Vinyl Floor Tile with Black Mastic (Layer 3)	Cafeteria
07	HA4	12" x 12" Blue Mottled Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1)	Cafeteria
08	HA4	12" x 12" Blue Mottled Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1)	Cafeteria
09	HA5	12" x 12" Navy/Gray Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1)	Cafeteria
10	HA5	12" x 12" Navy/Gray Vinyl Floor Tile with Yellow Mastic (Decorative Pattern Layer 1)	Cafeteria
11	HA6	4" Gray Covebase with Yellow Mastic	Cafeteria
12	HA6	4" Gray Covebase with Yellow Mastic	Cafeteria
13	HA7	2 Coat Wall Plaster	Cafeteria
14	HA7	2 Coat Wall Plaster	Cafeteria
15	HA7	2 Coat Wall Plaster	Cafeteria
16	HA8	CMU Wall Surfacing Compound	Kitchen
17	HA8	CMU Wall Surfacing Compound	Kitchen
18	HA8	CMU Wall Surfacing Compound	Kitchen
19	HA9	12" x 12" Tan Mottled Vinyl Floor Tile with Black Mastic	Kitchen Manager Office
20	HA9	12" x 12" Tan Mottled Vinyl Floor Tile with Black Mastic	Kitchen Manager Office
21	HA10	White Interior Door Caulk	Cafeteria
22	HA10	White Interior Door Caulk	Cafeteria
23	HA11	White Sink Caulk	Kitchen
24	HA11	White Sink Caulk	Kitchen
25	HA12	Tan Interior Door Caulk	Kitchen
26	HA12	Tan Interior Door Caulk	Kitchen
27	HA13	2'x4' Pinhole with Fissures Ceiling Tile	Kitchen
28	HA13	2'x4' Pinhole with Fissures Ceiling Tile	Kitchen
29	HA14	2'x4' Flat Ceiling Tile	Kitchen
30	HA14	2'x4' Flat Ceiling Tile	Kitchen
31	HA15	White Ceramic Wall Tile Thin Set	Kitchen/Cafeteria Entryway
32	HA15	White Ceramic Wall Tile Thin Set	Kitchen/Cafeteria Entryway
>>			

Accepted ☑

Rejected ☐

Relinquished By Anna Franciosa

Received By 3/18 10:30am

Appendix V: Certifications/ Licenses

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
07-31-2020

NUMBER
3303004294

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS INSPECTOR LICENSE

ANNA CHRISTINA FRANCIOSA
1310 L STREET, NW
SUITE 425
WASHINGTON, DC 20005

Mary Broz-Vaughan, Acting Director

Status can be verified at http://www.dpor.virginia.gov

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)

COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS INSPECTOR LICENSE
NUMBER: 3303004294 EXPIRES: 07-31-2020

ANNA CHRISTINA FRANCIOSA
1310 L STREET, NW
SUITE 425
WASHINGTON, DC 20005

(FOLD)

DPOR-PC (02/2017)

Appendix VI: Previous Reports



LIMITED ASBESTOS CONTAINING MATERIAL SURVEY

MOUNT VERNON ELEMENTARY SCHOOL
2601 COMMONWEALTH AVENUE
ALEXANDRIA, VIRGINIA

ECS PROJECT NO. 47:1519

FOR

ALEXANDRIA CITY PUBLIC SCHOOLS

MARCH 2, 2016

ECS MID-ATLANTIC, LLC
"Setting the Standard for Service"
Geotechnical • Construction Materials • Environmental • Facilities

March 2, 2016

Mr. John Finnigan
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
john.finnigan@acps.k12.va.us

ECS Project No. 47:1519

Reference: Limited Asbestos Containing Material Survey, Mount Vernon Elementary School, 2601 Commonwealth Avenue, Alexandria, Virginia

Dear Mr. Finnigan:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced non-invasive sampling for the school facility. This work was performed in general conformance with ECS Proposal No. 47:420-EP. The following is a summary of results of the above referenced work performed on February 22, 2016.

Black mastic on fiberglass ductwork insulation was found to contain asbestos.

ECS appreciates this opportunity to provide testing services for your project. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS MID ATLANTIC, LLC

Beverly E. Sedon
Senior Environmental Project Manager

Stephen R. Geraci
Regional Environmental Manager

I:_e-projects\1501-1600\1519 ACPS Mount Vernon\1519 Mount Vernon Report.doc

TABLE OF CONTENTS

	PAGE
BACKGROUND	**1**
METHODS AND RESULTS	**1**
Asbestos	1
RECOMMENDATIONS	**2**
Asbestos	2
LIMITATIONS	3
ATTACHMENTS	
Table 1 – Bulk Sampling of Suspect Asbestos-Containing Material	
Laboratory Results and Chain of Custody	
Photographs	

BACKGROUND

As requested by Mr. John Finnigan of ACPS, ECS visited the school facility on February 22, 2016 to survey a select area (Room 224) for suspect asbestos containing materials within the ceiling cavity.

Due to water intrusions associated with the roofing, the upper ceiling materials located above the drop ceiling had delaminated causing a few ceiling tiles to fall. ECS was requested to assess the material in the ceiling cavity since repairs were proposed to be performed.

This survey was limited to the accessible materials in the ceiling cavity proposed for possibly disturbance by repair activity: ceiling plaster, 1' x 1' ceiling tile and associated brown mastic, and black mastic on the duct insulation. No other areas or materials were included in this assessment at this time.

During the survey, ECS attempted to access suspect asbestos-containing building materials within the ceiling cavity. However, due to the destructive means required to access materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect asbestos-containing materials may be located in these and/or other inaccessible areas.

METHODS AND RESULTS

Asbestos

The asbestos sampling was performed by a Commonwealth of Virginia licensed asbestos inspector who has received EPA accredited training. Samples of suspect asbestos-containing material (ACM) were collected utilizing hand tools and placed into individual, labeled plastic bags. A total of 9 unique bulk suspect ACM samples were shipped to SAI, Inc in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately.

SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is found to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis. In total, 12 layers were analyzed.

Table 1 below summarizes the materials reported to contain asbestos. A list of the sampled materials and reported results is located in Table 2 attached to this report. Photographs of collected samples reported as asbestos containing are also attached to this report.

TABLE 1
ASBESTOS-CONTAINING MATERIALS SUMMARY

General Location	Material	Friability
Room 224 – Ceiling Cavity	Black Mastic on HVAC Duct Wrap	Category II Non-Friable

The asbestos containing black mastic was observed on the HVAC duct wrap (a foil with fiberglass insulation wrap). The material appeared to be in good condition.

RECOMMENDATIONS

Asbestos

Federal, state and local regulations require asbestos-containing materials be removed prior to disturbance by either renovations or demolishing the building. If the materials are proposed for disturbance associated with the repair activities, ECS recommends the identified asbestos-containing materials be removed by a Commonwealth of Virginia licensed asbestos abatement contractor prior to disturbance. Any assumed or newly discovered material(s) should be sampled by an accredited asbestos inspector prior to disturbance.

Prior to removal of Regulated Asbestos Containing Materials (RACMs) and selected non-friable materials, notification is required by either Virginia and/or the EPA. This notification, if appropriate, must be filed by a Virginia certified asbestos abatement contractor 20 calendar days before starting asbestos abatement activities, and for US EPA 10 working days prior to start of work.

If asbestos-containing materials are to be removed, it recommended that a Commonwealth of Virginia licensed asbestos Project Monitor observe the project. The monitor should review and monitor the abatement contractor's work practices over the course of the project. The Project Monitor should inform the building owner if the asbestos abatement contractor is not performing the work in accordance with federal and state regulations for asbestos. ECS can provide these services for an additional fee is requested.

Suspect asbestos containing materials not observed due to inaccessibility or not sampled due to the destructive means that sampling requires during the survey may be encountered during renovation activities. At the time of the survey, destructive means were not used to

locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, exterior areas, sub-grade sealants, flooring located below underlayments, areas behind walls, pipe chases, vapor barriers, etc. were deemed inaccessible and were not assessed. If additional suspect asbestos-containing materials are uncovered during renovation activities which were not accessible during this survey, it is recommended that these materials be sampled immediately upon discovery for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

The survey was limited to the sampled materials proposed for disturbance noted on the findings table attached to this report. No other materials within the unit or building were proposed to be disturbed or removed at the time of our survey and therefore, were not sampled. If additional materials are encountered during renovation work, or of additional areas of the unit are to be disturbed, it is recommended that these areas/materials be sampled for asbestos content or assumed to be asbestos containing. Additionally, if the roofing materials are proposed for disturbance, they should be assessed for asbestos prior to disturbance.

ECS recommends that the findings of this report be included in the AHERA Operations and Maintenance Plan (O&M Plan) for the school facility.

LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, suspect asbestos samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which suspect asbestos samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

The client agrees to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, information that may be necessary to prevent any danger to public health, safety, or the environment.

ATTACHMENT

TABLE 1
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIAL

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
1	Room 224 - Ceiling Cavity	1' x 1' Pinhole Ceiling Tile	NAD
2	Room 224 - Ceiling Cavity	1' x 1' Pinhole Ceiling Tile	NAD
3	Room 224 - Ceiling Cavity	Brown Ceiling Tile Mastic	NAD
4	Room 224 - Ceiling Cavity	Brown Ceiling Tile Mastic	NAD
5	**Room 224 - Ceiling Cavity**	**Black Mastic on Fiberglass Duct Wrap**	**Asbestos: 10% Chrysotile**
6	Room 224 - Ceiling Cavity	Black Mastic on Fiberglass Duct Wrap	N/A
7 - A	Room 224 - Ceiling Cavity	Ceiling Plaster - Finish	NAD
7 - B	Room 224 - Ceiling Cavity	Ceiling Plaster - Base	NAD
8 - A	Room 224 - Ceiling Cavity	Ceiling Plaster - Finish	NAD
8 - B	Room 224 - Ceiling Cavity	Ceiling Plaster - Base	NAD
9 - A	Room 224 - Ceiling Cavity	Ceiling Plaster - Finish	NAD
9 - B	Room 224 - Ceiling Cavity	Ceiling Plaster - Base	NAD

NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop

ATTACHMENT

LABORATORY RESULTS AND CHAIN OF CUSTODY

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Project: ACPS-Mt. Vernon

Lab Order ID: 1603568
Analysis ID: 1603568_PLM
Date Received: 2/23/2016
Date Reported: 2/23/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1 *1603568PLM_1*	1' x 1' Pinhole Ceiling Tile	**None Detected**	**95% Cellulose**	**5% Other**	White, Brown Fibrous Heterogeneous Dissolved, Teased
2 *1603568PLM_2*	1' x 1' Pinhole Ceiling Tile	**None Detected**	**95% Cellulose**	**5% Other**	White, Brown Fibrous Heterogeneous Dissolved, Teased
3 *1603568PLM_3*	Brown Ceiling Tile Mastic	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
4 *1603568PLM_4*	Brown Ceiling Tile Mastic	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
5 *1603568PLM_5*	Black Mastic on Duct Wrap	**10% Chrysotile**	**30% Cellulose** **10% Fiber Glass**	**50% Other**	Black, Tan Fibrous Heterogeneous Dissolved, Teased
6 *1603568PLM_6*	Black Mastic on Duct Wrap	**Not Analyzed**			
7 - A *1603568PLM_7*	Ceiling Plaster *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
7 - B *1603568PLM_12*	Ceiling Plaster *base*	**None Detected**		**100% Other**	Tan Non Fibrous Heterogeneous Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (12)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Project: ACPS-Mt. Vernon

Lab Order ID: 1603568
Analysis ID: 1603568_PLM
Date Received: 2/23/2016
Date Reported: 2/23/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
8 - A *1603568PLM_8*	Ceiling Plaster *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
8 - B *1603568PLM_10*	Ceiling Plaster *base*	**None Detected**		**80% Other** **20% Quartz**	Gray Non Fibrous Homogeneous Crushed
9 - A *1603568PLM_9*	Ceiling Plaster *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
9 - B *1603568PLM_11*	Ceiling Plaster *base*	**None Detected**		**80% Other** **20% Quartz**	Gray Non Fibrous Homogeneous Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (12)

Analyst

Approved Signatory

Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 1003568
Client Code: _____

Company Contact Information

Company: ECS	Contact: Beverly Sedon
Address: 1402 Le Thunderbolt PL Ste 100 Chantilly, VA 20151	Phone ☐:
	Fax ☐:
	Email ☒: bsedon@ecslimited.com

Billing/Invoice Information

Company: Same	
Contact:	
Address:	

Turn Around Times

90 Min. ☐	48 Hours ☐
3 Hours ☐	72 Hours ☐
6 Hours ☒	96 Hours ☐
12 Hours ☐	120 Hours ☐
24 Hours ☐	144+Hours ☐

PO Number: ACPS - Mt. Vernon
Project Name/Number: ACPS- Mt. Vernon

Asbestos Test Types

PLM EPA 600/R-93/116	☒
Positive stop ☒	
PLM Point Count	☐
PCM NIOSH 7400	☐
TEM AHERA	☐
TEM Level II	☐
TEM NIOSH 7402	☐
TEM Bulk Qualitative	☐
TEM Bulk Chatfield	☐
TEM Bulk Quantitative	☐
TEM Wipe ASTM D6480-99	☐
TEM Microvac ASTM D5755-02	☐
TEM Water EPA 100.2	☐
Other: _____	☐

Sample ID #	Description/Location	Volume/Area	Comments
9	See Elec Cor		

Accepted ☑

Rejected ☐

Total # of Samples 9

Relinquished by	Date/Time	Received by	Date/Time
B Arden	2/23/2016	B Shelley	2/23 1030

1603568

Client:	ECS Mid-Atlantic, LLC
Contact:	Beverly Sedon
Address:	14026 Thunderbolt Place, Suite
Phone:	301-672-2096 (cell)
Fax:	
Email:	bsedon@ecslimited.com
Project:	Mt Vernon
Client Notes:	**Positive Stop**
P.O. #.	Mt Vernon
Date Submitted:	2/22/2016 0:00
Analysis:	PLM EPA 600/R-93/116
TurnAroundTime:	6 Hour TAT

Instructions:
Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
1	HA1	1' x 1' Pinhole Ceiling Tile	
2	HA1	1' x 1' Pinhole Ceiling Tile	
3	HA2	Brown Ceiling Tile Mastic	
4	HA2	Brown Ceiling Tile Mastic	
5	HA3	Black Mastic on Duct Wrap	
6	HA3	Black Mastic on Duct Wrap	
7	HA4	Ceiling Plaster	
8	HA4	Ceiling Plaster	
9	HA4	Ceiling Plaster	
>>			

2.23
3:45

ATTACHMENT

PHOTOGRAPHS



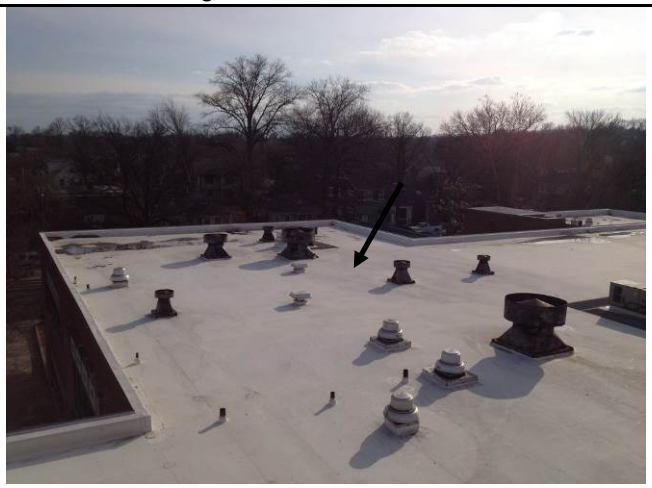
1. View of the ceiling cavity in Room 224 where the upper ceiling tile and plaster materials are delaminating.



2. View of the ceiling cavity in Room 224 where the upper ceiling tile and plaster materials are delaminating.



3. View of the ceiling cavity in Room 224 and location of black mastic (ACM) on the duct wrap, Samples 5-6.



4. View of the approximate location of the roof over Room 224 with ponded water and leaves over Room 225.



5. View of ponded water on the roof over the east portion of the building.



REPORT OF LIMITED ASBESTOS-CONTAINING MATERIALS SURVEY

MOUNT VERNON ELEMENTARY SCHOOL
2601 COMMONWEALTH AVENUE
ALEXANDRIA, VIRGINIA

ECS PROJECT NO. 47:1519-B

FOR

ALEXANDRIA CITY PUBLIC SCHOOLS

JUNE 21, 2016

June 21, 2016

Mr. John Finnigan
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
john.finnigan@acps.k12.va.us

ECS Project No. 47:1519-B

Reference: Report for Limited Asbestos-Containing Materials Survey, Mount Vernon Elementary School, 2601 Commonwealth Avenue, Alexandria, Virginia

Dear Mr. Finnigan:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above-referenced non-invasive sampling for the school facility. This work was performed in general conformance with ECS Proposal No. 47:1017-EP, dated April 27, 2016. The following is a summary of results of the above referenced work performed on May 20, 2016.

The 9" x 9" green floor tile and black mastic associated with the 9" x 9" orange floor tile were found to contain asbestos.

ECS appreciates this opportunity to provide testing services for your project. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS MID-ATLANTIC SERVICES, LLC

Diana D. Krass
Senior Industrial Hygiene Manager

Stephen R. Geraci
Environmental Regional Manager

I:_e-projects\1501-1600\1519-B Mount Vernon ACM Sampling.doc

TABLE OF CONTENTS

	PAGE
SITE DESCRIPTION	**1**
METHODS AND RESULTS	**1**
RECOMMENDATIONS	**3**
LIMITATIONS	**4**

ATTACHMENTS: Photographs
Table 2 – Bulk Sampling of Suspect Asbestos-Containing Materials
Laboratory Results and Chains of Custody

SITE DESCRIPTION

As requested by Mr. John Finnigan of ACPS, ECS visited the school facility on May 20, 2016 to perform a survey and collect representative samples of flooring materials from classrooms 112, 113, 116, 219, 220, 221, 224 and 228.

This survey was limited to the flooring systems within above-referenced subject areas that are proposed for renovations. No other areas or materials were included in this sampling event. At the time of this survey, the school facility was vacant.

METHODS AND RESULTS

Asbestos-Containing Materials

The asbestos sampling was performed by a Commonwealth of Virginia licensed asbestos inspector who has received EPA accredited training. Samples of suspect asbestos-containing material (ACM) were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were shipped to SAI, Inc. in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately.

SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis. Multiple samples of each unique material were submitted. Samples were analyzed using “Positive Stop” methodology. If one sample of a homogeneous material is found to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis. In total, fourteen (14) bulk samples were collected and thirty-four (34) layers were analyzed.

ACBM is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM. ACMs are categorized as follows:

- A friable ACBM is defined as any ACBM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

- A non-friable ACBM is defined as any ACBM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

    - Category I non-friable ACBMs include: packing, gaskets, resilient floor coverings and asphalt roofing products containing more than one percent (>1%) asbestos.

- Category II non-friable ACBMs are any non-friable material, excluding Category I non-friable ACBM, containing more than one percent (>1%) asbestos.

Table 1 below summarizes the materials reported to contain asbestos. A list of the sampled materials and reported results is located in Table 2 attached to this report. Photographs of collected samples reported as asbestos-containing are also attached to this report.

TABLE 1
ASBESTOS-CONTAINING MATERIALS SUMMARY

Sample Location	Material	Category	Asbestos Concentration
Classrooms 112 and 113 (underneath carpet)	9" x 9" Green Floor Tile	Category I Non-Friable	5% Chrysotile
Classroom 221	Black Mastic associated with 9" x 9" Orange Floor Tile	Category I Non-Friable	3% Chrysotile

Asbestos-containing 9" x 9" green floor tiles were sampled from Classrooms 112 and 113, and were found in other locations:

- Classrooms 113 and 116, observed underneath carpet and two layers of 12" x 12" floor tiles;
- Classroom 219, observed underneath carpet;
- Classroom 220, observed underneath carpet and one layer of 12" x 12" floor tile:
- Classroom 221, observed underneath carpet and one layer of 12" x 12" floor tile, mixed with 9" x 9" orange floor tiles.

In classrooms 224 and 228, ECS observed non-asbestos containing residual yellow/black floor mastics and tan floor tile (unknown size) underneath carpet.

Identified asbestos-containing floor tiles and associated mastics should also be assumed to be present underneath other flooring systems, cabinets, shelves, and/or partition walls. ECS observed multiple flooring systems within the classrooms. All other collected bulk samples of observed floor tiles and associated mastics not referenced above were reported negative for asbestos.

RECOMMENDATIONS

Asbestos-Containing Materials

The materials listed in Table 1 consist of non-friable materials which contains greater than one percent (> 1%) asbestos. By definition, these materials are considered asbestos-containing materials (ACMs). Friable materials (i.e., able to be crumbled, pulverized, and/or reduced to powder by hand pressure when dry) will easily produce airborne asbestos fibers if disturbed. Non-friable materials may also produce airborne asbestos fibers if disturbed.

ECS recommends where a material type has been identified as asbestos-containing that all similar type (age, color, texture, etc.) materials throughout the building's interior and exterior be assumed to contain asbestos.

Federal, state and local regulations require asbestos-containing materials (ACMs) be removed prior to disturbance by either renovations or demolishing the building. ECS recommends the identified ACMs and any assumed ACMS found to be present within the building be removed by a Commonwealth of Virginia certified asbestos abatement contractor prior to disturbance. Any assumed or newly discovered material(s) should be sampled by an accredited asbestos inspector prior to disturbance.

Prior to removal of Regulated Asbestos Containing Materials (RACMs) and selected non-friable materials, notification may be required by either by Virginia and/or the EPA if the quantity of material exceeds 10 linear feet. This notification, if appropriate, must be filed by a Virginia certified asbestos abatement contractor 20 calendar days before starting asbestos abatement activities.

If ACMs are to be removed, it is generally required that a Commonwealth of Virginia licensed asbestos Project Monitor observe the project and collect final clearance samples. This involves collecting air samples from within and outside abatement work areas and also monitoring the abatement contractor's work practices over the course of the project. The Project Monitor should inform the building owner if the asbestos abatement contractor is not performing the work in accordance with project specifications (if applicable), and federal and state regulations for asbestos.

If additional areas of the building are scheduled to be renovated, further assessment of these areas is required under both OSHA and EPA prior to disturbance by a Virginia licensed asbestos inspector.

As good practice, ECS recommends development of asbestos Operations and Management Plan in general accordance with OSHA regulations, including procedures for training, notification of outside contractors, labeling etc.

LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, suspect asbestos samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which suspect asbestos samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

The client agrees to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, information that may be necessary to prevent any danger to public health, safety, or the environment.

ATTACHMENT

PHOTOGRAPHS



1. View of Classroom 112.



2. Classroom 112, View of Asbestos-Containing 9” x 9” Green Floor Tile. Sample No. 1-B.



3. View of Classroom 113.



4. Classroom 113, View of Asbestos-Containing 9” x 9” Green Floor Tile underneath Floor Tiles.



5. View of Classroom 221.



6. Classroom 221, View of Black Mastic associated with 9” x 9” Orange Floor Tile.

Limited Asbestos-Containing Materials Survey
Mount Vernon Elementary School
Alexandria, Virginia

Site Photographs
ECS Project No. 47:1519-B
Site Visit: May 20, 2016

ATTACHMENT

TABLE 2 – BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
1 - A	Classroom 112	Yellow Mastic associated with 9" x 9" Green Floor Tile	NAD
1 - B	**Classroom 112**	**9" x 9" Green Floor Tile**	**Asbestos: 5% Chrysotile**
1 - C	Classroom 112	Black Mastic associated with 9" x 9" Green Floor Tile	NAD
2 - A	Classroom 113	Yellow Mastic associated with 9" x 9" Green Floor Tile	NAD
2 - B	Classroom 113	9" x 9" Green Floor Tile	N/A
2 - C	Classroom 113	Black Mastic associated with 9" x 9" Green Floor Tile	NAD
3 - A	Classroom 116	12" x 12" White with Blue and Pink Specks Floor Tile	NAD
3 - B	Classroom 116	Yellow/Brown Mastics associated with 12" x 12" White with Blue and Pink Specks Floor Tile	NAD
4 - A	Classroom 113	12" x 12" White with Blue and Pink Specks Floor Tile	NAD
4 - B	Classroom 113	Yellow/Brown Mastics associated with 12" x 12" White with Blue and Pink Specks Floor Tile	NAD
5 - A	Classroom 116	12" x 12" White Feathered Pattern Floor Tile	NAD
5 - B	Classroom 116	Yellow/Brown Mastic associated with 12" x 12" White Feathered Pattern Floor Tile	NAD
6 - A	Classroom 113	12" x 12" White Feathered Pattern Floor Tile	NAD
6 - B	Classroom 113	Yellow/Brown Mastic associated with 12" x 12" White Feathered Pattern Floor Tile	NAD
7 - A	Classroom 220	12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
7 - B	Classroom 220	Mastic associated with 12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
8 - A	Classroom 220	12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
8 - B	Classroom 220	Mastic associated with 12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
9 - A	Classroom 221	9" x 9" Orange Floor Tile	NAD
9 - B	**Classroom 221**	**Black Mastic associated with 9" x 9" Orange Floor Tile**	**Asbestos: 8% Chrysotile**
10 - A	Classroom 221	9" x 9" Orange Floor Tile	NAD
10 - B	Classroom 221	Black Mastic associated with 9" x 9" Orange Floor Tile	N/A
11	Classroom 224	Residual Yellow/Black Floor Mastics	NAD
12	Classroom 224	Residual Yellow/Black Floor Mastics	NAD
13 - A	Classroom 228	Tan Floor Tile (unknown size)	NAD
13 - B	Classroom 228	Yellow Mastic associated with Tan Floor Tile (unknown size)	NAD
14 - A	Classroom 228	Tan Floor Tile (unknown size)	NAD

Table Notes:
NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
14 - B	Classroom 228	Yellow Mastic associated with Tan Floor Tile (unknown size)	NAD

Table Notes:
NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

ATTACHMENT

LABORATORY RESULTS AND CHAINS OF CUSTODY

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
1 - A	9" x 9" Green Floor Tile with Yellow and Black Mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_1	*yellow mastic*				Dissolved
1 - B	9" x 9" Green Floor Tile with Yellow and Black Mastic	**5% Chrysotile**		**95% Other**	Green Non Fibrous Homogeneous
1610183PLM_15	*tile*				Dissolved
1 - C	9" x 9" Green Floor Tile with Yellow and Black Mastic	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1610183PLM_16	*black mastic*				Dissolved
2 - A	9" x 9" Green Floor Tile with Yellow and Black Mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_2	*yellow mastic*				Dissolved
2 - B	9" x 9" Green Floor Tile with Yellow and Black Mastic	**Not Analyzed**			
1610183PLM_17	*tile*				
2 - C	9" x 9" Green Floor Tile with Yellow and Black Mastic	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1610183PLM_18	*black mastic*				Dissolved
3 - A	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	**None Detected**		**100% Other**	White Non Fibrous Homogeneous
1610183PLM_3	*tile*				Dissolved
3 - B	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_19	*mastic*				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
4 - A	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1610183PLM_4	*tile*				Dissolved
4 - B	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_20	*mastic*				Dissolved
5 - A	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1610183PLM_5	*tile*				Dissolved
5 - B	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_21	*mastic*				Dissolved
6 - A	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1610183PLM_6	*tile*				Dissolved
6 - B	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_22	*mastic*				Dissolved
7 - A	12" x 12" Beige with Cream and Blue Specks FT	None Detected		100% Other	Beige Non Fibrous Homogeneous
1610183PLM_7	*tile*				Dissolved
7 - B	12" x 12" Beige with Cream and Blue Specks FT	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_23	*mastic*				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
8 - A	12" x 12" Beige with Cream and Blue Specks FT	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous
1610183PLM_8	*tile*				Dissolved
8 - B	12" x 12" Beige with Cream and Blue Specks FT	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_24	*mastic*				Dissolved
9 - A	9" x 9" Orange Floor Tile with Black Mastic	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous
1610183PLM_9	*tile*				Dissolved
9 - B	9" x 9" Orange Floor Tile with Black Mastic	**8% Chrysotile**		**92% Other**	Black Non Fibrous Homogeneous
1610183PLM_25	*mastic*				Dissolved
10 - A	9" x 9" Orange Floor Tile with Black Mastic	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous
1610183PLM_10	*tile*				Dissolved
10 - B	9" x 9" Orange Floor Tile with Black Mastic	**Not Analyzed**			
1610183PLM_26	*mastic*				
11	Residual Yellow/Black Floor Mastic	**None Detected**		**100% Other**	Yellow, Black Non Fibrous Heterogeneous
1610183PLM_11					Dissolved
12	Residual Yellow/Black Floor Mastic	**None Detected**		**100% Other**	Yellow, Black Non Fibrous Heterogeneous
1610183PLM_12					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
13 - A	Tan Floor Tile (unknown Size) with Yellow Mastic	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous
1610183PLM_13	*tile*				Dissolved
13 - B	Tan Floor Tile (unknown Size) with Yellow Mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_27	*mastic*				Dissolved
14 - A	Tan Floor Tile (unknown Size) with Yellow Mastic	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous
1610183PLM_14	*tile*				Dissolved
14 - B	Tan Floor Tile (unknown Size) with Yellow Mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_28	*mastic*				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

1610183

Client:	ECS Mid-Atlantic, LLC
Contact:	Diana Krass
Address:	14026 Thunderbolt Place, Suite
Phone:	703-201-0249 (cell)
Fax:	
Email:	dkrass@ecslimited.com
Project:	47:1519-B
Client Notes:	**Positive Stop**
P.O. #.	47:1519-B
Date Submitted:	05/23/2016 Fedex
Analysis:	PLM EPA 600/R-93/116
TurnAroundTime:	3-Day TAT

Instructions:
Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Homogenous Material	Sample Description	Location
<<			
1	HA#1	9" x 9" Green Floor Tile with Yellow and Black Mastic	Classroom 112
2	HA#1	9" x 9" Green Floor Tile with Yellow and Black Mastic	Classroom 113
3	HA#2	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	Classroom 116
4	HA#2	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	Classroom 113
5	HA#3	12" x 12" White Feathered FT with Yellow/Brown Mastic	Classroom 116
6	HA#3	12" x 12" White Feathered FT with Yellow/Brown Mastic	Classroom 113
7	HA#4	12" x 12" Beige with Cream and Blue Specks FT	Classroom 220
8	HA#4	12" x 12" Beige with Cream and Blue Specks FT	Classroom 220
9	HA#5	9" x 9" Orange Floor Tile with Black Mastic	Classroom 221
10	HA#5	9" x 9" Orange Floor Tile with Black Mastic	Classroom 221
11	HA#6	Residual Yellow/Black Floor Mastic	Classroom 224
12	HA#6	Residual Yellow/Black Floor Mastic	Classroom 224
13	HA#7	Tan Floor Tile (unknown Size) with Yellow Mastic	Classroom 228
14	HA#7	Tan Floor Tile (unknown Size) with Yellow Mastic	Classroom 228
>>			

Accepted ☑
Rejected ☐

5/23 1040

LIMITED ASBESTOS-CONTAINING MATERIALS SURVEY

MOUNT VERNON ELEMENTARY SCHOOL

LIMITED ROOF SAMPLING

2601 COMMONWEALTH AVENUE
ALEXANDRIA, VIRGINIA 22314

ECS PROJECT NO. 47:1519-B1

FOR

ALEXANDRIA CITY PUBLIC SCHOOLS

JUNE 6, 2017

June 6, 2017

Mr. John Finnigan
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
john.finnigan@acps.k12.va.us

ECS Project No. 47:1519-B1

Reference: Limited Asbestos-Containing Materials Survey, Mount Vernon Elementary School - Limited Roof Sampling, 2601 Commonwealth Avenue, Alexandria, Virginia

Dear Mr. Finnigan:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced Limited Asbestos-Containing Materials Survey performed at Mount Vernon Elementary School located at 2601 Commonwealth Avenue in Alexandria, Virginia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:4510-EP and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Alexandria City Public Schools with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

Israel Santana, III
Environmental Project Manager
isantana@ecslimited.com
703-471-8400

Beverly Sedon
Senior Project Manager
bsedon@ecslimited.com
703-471-8400

EXECUTIVE SUMMARY

The site is improved with Mount Vernon Elementary School which is located at 2601 Commonwealth Avenue in Alexandria, Virginia. The school is currently occupied and utilized as a elementary school. The proposed renovations will consist of new HVAC systems being installed on the roof of the school.

The purpose of the survey was to determine if asbestos-containing materials (ACMs) are present on the roof where the new HVAC units will be located. This sampling event was performed only for those specific locations that will be impacted by the new HVAC units and associated installation.

During our assessment, a total of eight bulk samples were collected and a total of eighteen layers were analyzed by the laboratory. Based on the laboratory analysis of the bulk samples collected during the survey, asbestos was not detected in the samples of roofing materials where the HVAC system will be replaced.

TABLE OF CONTENTS

PAGE

1.0 SITE DESCRIPTION 1

2.0 PURPOSE 1

3.0 METHODOLOGY 1

3.1 Asbestos-Containing Materials 1

4.0 RESULTS 2

4.1 Asbestos-Containing Materials 2

4.2 Suspect or Assumed Asbestos-Containing Materials 2

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS 2

5.1 Asbestos-Containing Materials 2

6.0 LIMITATIONS 2

TABLE OF APPENDICES

Appendix I: Site Photographs

Appendix II: Bulk Sampling of Suspect ACMs

Appendix III: Asbestos Laboratory Analytical Report

1.0 SITE DESCRIPTION

The site is improved with Mount Vernon Elementary School which is located at 2601 Commonwealth Avenue in Alexandria, Virginia. The school is currently occupied and is utilized as an elementary school. The propsoed renovations will consist of new HVAC units on the roof of the school.

2.0 PURPOSE

The purpose of the Limited Asbestos-Containing Materials Survey was to identify asbestos-containing materials (ACMs) which may require special handling and/or disposal if removed during construction activities. The identification of ACMs may require trained labor, regulated work practices, and special disposal. The survey was limited to the specific locations where the HVAC units will be located. No other areas of the building or roof were included in the assessment at this time.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of ACMs.

3.1 Asbestos-Containing Materials

The non-invasive asbestos survey was performed by a Commonwealth Virginia licensed asbestos inspector (VA License Number 3303003536). Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis.

Unique bulk suspect ACM samples were submitted to Scientific Analytical Institute, Inc. (SAI) in Greensboro, NC for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis by currently approved EPA methodology by PLM.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas. ECS notes that the survey was only conducted on the roof where new HVAC units are proposed to be installed.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

Asbestos-Containing Material (ACMs) are defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM. A list of materials sampled and submitted for analysis and their reported analytical results is attached to this report.

Based on the laboratory results of the collected samples, none of the materials submitted for analysis were reported to contain asbestos.

4.2 Suspect or Assumed Asbestos-Containing Materials

Under the scope of services for this project ECS did not survey or test for additional materials. Other suspect ACMs may be present within the building.

If additional materials not referenced in this report are discovered during renovation, they should be assumed to contain asbestos and be treated as asbestos-containing materials (ACMs) or, otherwise, sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Limited Asbestos-Containing Materials Survey including future plans for renovation, the laboratory analysis, our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

None of the bulk samples submitted to SAI were reported to contain detectable concentrations of asbestos. Please note the survey was limited to the areas proposed for disturbance on the roof associated with the HVAC unit replacement. This report and assessment does not constitute a complete evaluation of all materials for the roof.

If additional suspect asbestos-containing materials are uncovered which were not accessible during this sampling event, it is recommended that these materials be sampled or tested immediately upon discovery for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, samples were submitted for analysis at an accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

Appendix I: Site Photographs



1 - View of RTU to be replaced.



2 - View of flashing sampled from the RTU.



3 - View of sealant on flashing sampled from the RTU.



4 - View of small air condition unit to be replaced.



5 - View of pipe pitch pocket sampled from the small air condition unit.



6 - View of small air condition unit to be replaced.



7 - View of pipe pitch pocket sampled from the small air condition unit.

Appendix II: Bulk Sampling of Suspect ACMs

TABLE I

BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
1	Roof	Mechaincal HVAC System Flashing (RTU)	NAD
2	Roof	Mechaincal HVAC System Flashing (RTU)	NAD
3	Roof	Mechaincal HVAC System Flashing Caulk (RTU)	NAD
4	Roof	Mechaincal HVAC System Flashing Caulk (RTU)	NAD
5A	Roof	Small Air Condition Unit Pipe Pitch Pocket (White Caulk)	NAD
5B	Roof	Small Air Condition Unit Pipe Pitch Pocket (Beige Caulk)	NAD
5C	Roof	Small Air Condition Unit Pipe Pitch Pocket (Gray Caulk)	NAD
5D	Roof	Small Air Condition Unit Pipe Pitch Pocket (Black Caulk)	NAD
6A	Roof	Small Air Condition Unit Pipe Pitch Pocket (White Caulk)	NAD
6B	Roof	Small Air Condition Unit Pipe Pitch Pocket (Beige Caulk)	NAD
6C	Roof	Small Air Condition Unit Pipe Pitch Pocket (Gray Caulk)	NAD
6D	Roof	Small Air Condition Unit Pipe Pitch Pocket (Black Caulk)	NAD
7A	Roof	Small Air Condition Unit Pipe Pitch Pocket (Gray Caulk)	NAD
7B	Roof	Small Air Condition Unit Pipe Pitch Pocket (Tan Caulk)	NAD
7C	Roof	Small Air Condition Unit Pipe Pitch Pocket (Black Caulk)	NAD
8A	Roof	Small Air Condition Unit Pipe Pitch Pocket (Gray Caulk)	NAD
8B	Roof	Small Air Condition Unit Pipe Pitch Pocket (Tan Caulk)	NAD
8C	Roof	Small Air Condition Unit Pipe Pitch Pocket (Black Caulk)	NAD

Table Notes:
NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

Appendix III: Asbestos Laboratory Analytical Report

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Beverly Sedon

Project: Mt. Vernon ES-ACPS

Lab Order ID: 1706650
Analysis ID: 1706650_PLM
Date Received: 3/31/2017
Date Reported: 3/31/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1 *1706650PLM_9*	Mechanical HVAC System Flashing (RTU)	**None Detected**	**85% Cellulose**	**15% Other**	Brown, Black Fibrous Heterogeneous Teased, Crushed
2 *1706650PLM_10*	Mechanical HVAC System Flashing (RTU)	**None Detected**	**85% Cellulose**	**15% Other**	Brown, Black Fibrous Heterogeneous Teased, Crushed
3 *1706650PLM_11*	Mechanical HVAC Unit Flashing Caulk (RTU)	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed
4 *1706650PLM_12*	Mechanical HVAC Unit Flashing Caulk (RTU)	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed
5 - A *1706650PLM_13*	Small Air Condition Unit Pipe Pitch Pocket *white caulk*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed, Ashed
5 - B *1706650PLM_17*	Small Air Condition Unit Pipe Pitch Pocket *beige caulk*	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous Crushed, Ashed
5 - C *1706650PLM_18*	Small Air Condition Unit Pipe Pitch Pocket *gray caulk*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed
5 - D *1706650PLM_19*	Small Air Condition Unit Pipe Pitch Pocket *black caulk*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Crushed, Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (18)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Beverly Sedon

Project: Mt. Vernon ES-ACPS

Lab Order ID: 1706650
Analysis ID: 1706650_PLM
Date Received: 3/31/2017
Date Reported: 3/31/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
6 - A *1706650PLM_14*	Small Air Condition Unit Pipe Pitch Pocket *white caulk*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed, Ashed
6 - B *1706650PLM_20*	Small Air Condition Unit Pipe Pitch Pocket *beige caulk*	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous Crushed, Ashed
6 - C *1706650PLM_21*	Small Air Condition Unit Pipe Pitch Pocket *gray caulk*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed
6 - D *1706650PLM_22*	Small Air Condition Unit Pipe Pitch Pocket *black caulk*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Crushed, Ashed
7 - A *1706650PLM_15*	Small Air Condition Unit Pipe Pitch Pocket *gray caulk*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed
7 - B *1706650PLM_23*	Small Air Condition Unit Pipe Pitch Pocket *tan caulk*	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous Crushed, Ashed
7 - C *1706650PLM_24*	Small Air Condition Unit Pipe Pitch Pocket *black caulk*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Crushed
8 - A *1706650PLM_16*	Small Air Condition Unit Pipe Pitch Pocket *gray caulk*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Crushed, Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (18)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Beverly Sedon

Project: Mt. Vernon ES-ACPS

Lab Order ID: 1706650
Analysis ID: 1706650_PLM
Date Received: 3/31/2017
Date Reported: 3/31/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
8 - B	Small Air Condition Unit Pipe Pitch Pocket	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous
1706650PLM_25	*tan caulk*				Crushed, Ashed
8 - C	Small Air Condition Unit Pipe Pitch Pocket	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1706650PLM_26	*black caulk*				Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (18)

Analyst

Approved Signatory

Client:	ECS Mid-Atlantic, LLC	***Instructions:***
Contact:	Beverly Sedon	*Use Column "B" for your contact info*
Address:	14026 Thunderbolt Place,	
Phone:	(703)-471-8400	*To See an Example Click the bottom Example Tab.*
Fax:		
Email:	bsedon@ecslimited.com	
		Enter samples between "<<" and ">>"
Project:	Mt. Vernon ES-ACPS	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Client Notes:	**POSITIVE STOP (Except on Plaster and Drywall Samples)**	*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	1519	*Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.*
Date Submitted:	3/29/2017 0:00	
Analysis:	PLM EPA 600/R-93/116	
TurnAroundTime:	24 hour	

1701650

Scientific Analytical Institute
4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Sample Description	Data 2
<<		
1	Mechanical HVAC System Flashing (RTU)	Roof Above 2nd Floor
2	Mechanical HVAC System Flashing (RTU)	Roof Above 2nd Floor
3	Mechanical HVAC Unit Flashing Caulk (RTU)	Roof Above 2nd Floor
4	Mechanical HVAC Unit Flashing Caulk (RTU)	Roof Above 2nd Floor
5	Small Air Condition Unit Pipe Pitch Pocket	Roof Above 2nd Floor
6	Small Air Condition Unit Pipe Pitch Pocket	Roof Above 2nd Floor
7	Small Air Condition Unit Pipe Pitch Pocket	Roof Above 2nd Floor Lower Roof
8	Small Air Condition Unit Pipe Pitch Pocket	Roof Above 2nd Floor Lower Roof
>>		

Accepted ☑

Rejected ☐

3/31
930A



REPORT OF LIMITED ASBESTOS-CONTAINING MATERIALS SURVEY

MOUNT VERNON ELEMENTARY SCHOOL
2601 COMMONWEALTH AVENUE
ALEXANDRIA, VIRGINIA

ECS PROJECT NO. 47:1519-B

FOR

ALEXANDRIA CITY PUBLIC SCHOOLS

JUNE 21, 2016

June 21, 2016

Mr. John Finnigan
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
john.finnigan@acps.k12.va.us

ECS Project No. 47:1519-B

Reference: Report for Limited Asbestos-Containing Materials Survey, Mount Vernon Elementary School, 2601 Commonwealth Avenue, Alexandria, Virginia

Dear Mr. Finnigan:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above-referenced non-invasive sampling for the school facility. This work was performed in general conformance with ECS Proposal No. 47:1017-EP, dated April 27, 2016. The following is a summary of results of the above referenced work performed on May 20, 2016.

The 9" x 9" green floor tile and black mastic associated with the 9" x 9" orange floor tile were found to contain asbestos.

ECS appreciates this opportunity to provide testing services for your project. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS MID-ATLANTIC SERVICES, LLC

Diana D. Krass
Senior Industrial Hygiene Manager

Stephen R. Geraci
Environmental Regional Manager

I:_e-projects\1501-1600\1519-B Mount Vernon ACM Sampling.doc

TABLE OF CONTENTS

	PAGE
SITE DESCRIPTION	**1**
METHODS AND RESULTS	**1**
RECOMMENDATIONS	**3**
LIMITATIONS	**4**

ATTACHMENTS: Photographs
Table 2 – Bulk Sampling of Suspect Asbestos-Containing Materials
Laboratory Results and Chains of Custody

SITE DESCRIPTION

As requested by Mr. John Finnigan of ACPS, ECS visited the school facility on May 20, 2016 to perform a survey and collect representative samples of flooring materials from classrooms 112, 113, 116, 219, 220, 221, 224 and 228.

This survey was limited to the flooring systems within above-referenced subject areas that are proposed for renovations. No other areas or materials were included in this sampling event. At the time of this survey, the school facility was vacant.

METHODS AND RESULTS

Asbestos-Containing Materials

The asbestos sampling was performed by a Commonwealth of Virginia licensed asbestos inspector who has received EPA accredited training. Samples of suspect asbestos-containing material (ACM) were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were shipped to SAI, Inc. in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately.

SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis. Multiple samples of each unique material were submitted. Samples were analyzed using “Positive Stop” methodology. If one sample of a homogeneous material is found to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis. In total, fourteen (14) bulk samples were collected and thirty-four (34) layers were analyzed.

ACBM is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM. ACMs are categorized as follows:

- A friable ACBM is defined as any ACBM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

- A non-friable ACBM is defined as any ACBM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

    - Category I non-friable ACBMs include: packing, gaskets, resilient floor coverings and asphalt roofing products containing more than one percent (>1%) asbestos.

- Category II non-friable ACBMs are any non-friable material, excluding Category I non-friable ACBM, containing more than one percent (>1%) asbestos.

Table 1 below summarizes the materials reported to contain asbestos. A list of the sampled materials and reported results is located in Table 2 attached to this report. Photographs of collected samples reported as asbestos-containing are also attached to this report.

TABLE 1
ASBESTOS-CONTAINING MATERIALS SUMMARY

Sample Location	Material	Category	Asbestos Concentration
Classrooms 112 and 113 (underneath carpet)	9" x 9" Green Floor Tile	Category I Non-Friable	5% Chrysotile
Classroom 221	Black Mastic associated with 9" x 9" Orange Floor Tile	Category I Non-Friable	3% Chrysotile

Asbestos-containing 9" x 9" green floor tiles were sampled from Classrooms 112 and 113, and were found in other locations:

- Classrooms 113 and 116, observed underneath carpet and two layers of 12" x 12" floor tiles;
- Classroom 219, observed underneath carpet;
- Classroom 220, observed underneath carpet and one layer of 12" x 12" floor tile:
- Classroom 221, observed underneath carpet and one layer of 12" x 12" floor tile, mixed with 9" x 9" orange floor tiles.

In classrooms 224 and 228, ECS observed non-asbestos containing residual yellow/black floor mastics and tan floor tile (unknown size) underneath carpet.

Identified asbestos-containing floor tiles and associated mastics should also be assumed to be present underneath other flooring systems, cabinets, shelves, and/or partition walls. ECS observed multiple flooring systems within the classrooms. All other collected bulk samples of observed floor tiles and associated mastics not referenced above were reported negative for asbestos.

RECOMMENDATIONS

Asbestos-Containing Materials

The materials listed in Table 1 consist of non-friable materials which contains greater than one percent (> 1%) asbestos. By definition, these materials are considered asbestos-containing materials (ACMs). Friable materials (i.e., able to be crumbled, pulverized, and/or reduced to powder by hand pressure when dry) will easily produce airborne asbestos fibers if disturbed. Non-friable materials may also produce airborne asbestos fibers if disturbed.

ECS recommends where a material type has been identified as asbestos-containing that all similar type (age, color, texture, etc.) materials throughout the building's interior and exterior be assumed to contain asbestos.

Federal, state and local regulations require asbestos-containing materials (ACMs) be removed prior to disturbance by either renovations or demolishing the building. ECS recommends the identified ACMs and any assumed ACMS found to be present within the building be removed by a Commonwealth of Virginia certified asbestos abatement contractor prior to disturbance. Any assumed or newly discovered material(s) should be sampled by an accredited asbestos inspector prior to disturbance.

Prior to removal of Regulated Asbestos Containing Materials (RACMs) and selected non-friable materials, notification may be required by either by Virginia and/or the EPA if the quantity of material exceeds 10 linear feet. This notification, if appropriate, must be filed by a Virginia certified asbestos abatement contractor 20 calendar days before starting asbestos abatement activities.

If ACMs are to be removed, it is generally required that a Commonwealth of Virginia licensed asbestos Project Monitor observe the project and collect final clearance samples. This involves collecting air samples from within and outside abatement work areas and also monitoring the abatement contractor's work practices over the course of the project. The Project Monitor should inform the building owner if the asbestos abatement contractor is not performing the work in accordance with project specifications (if applicable), and federal and state regulations for asbestos.

If additional areas of the building are scheduled to be renovated, further assessment of these areas is required under both OSHA and EPA prior to disturbance by a Virginia licensed asbestos inspector.

As good practice, ECS recommends development of asbestos Operations and Management Plan in general accordance with OSHA regulations, including procedures for training, notification of outside contractors, labeling etc.

LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, suspect asbestos samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which suspect asbestos samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

The client agrees to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, information that may be necessary to prevent any danger to public health, safety, or the environment.

ATTACHMENT

PHOTOGRAPHS



1. View of Classroom 112.



2. Classroom 112, View of Asbestos-Containing 9” x 9” Green Floor Tile. Sample No. 1-B.



3. View of Classroom 113.



4. Classroom 113, View of Asbestos-Containing 9” x 9” Green Floor Tile underneath Floor Tiles.



5. View of Classroom 221.



6. Classroom 221, View of Black Mastic associated with 9” x 9” Orange Floor Tile.

Limited Asbestos-Containing Materials Survey
Mount Vernon Elementary School
Alexandria, Virginia

Site Photographs
ECS Project No. 47:1519-B
Site Visit: May 20, 2016

ATTACHMENT

TABLE 2 – BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
1 - A	Classroom 112	Yellow Mastic associated with 9" x 9" Green Floor Tile	NAD
1 - B	**Classroom 112**	**9" x 9" Green Floor Tile**	**Asbestos: 5% Chrysotile**
1 - C	Classroom 112	Black Mastic associated with 9" x 9" Green Floor Tile	NAD
2 - A	Classroom 113	Yellow Mastic associated with 9" x 9" Green Floor Tile	NAD
2 - B	Classroom 113	9" x 9" Green Floor Tile	N/A
2 - C	Classroom 113	Black Mastic associated with 9" x 9" Green Floor Tile	NAD
3 - A	Classroom 116	12" x 12" White with Blue and Pink Specks Floor Tile	NAD
3 - B	Classroom 116	Yellow/Brown Mastics associated with 12" x 12" White with Blue and Pink Specks Floor Tile	NAD
4 - A	Classroom 113	12" x 12" White with Blue and Pink Specks Floor Tile	NAD
4 - B	Classroom 113	Yellow/Brown Mastics associated with 12" x 12" White with Blue and Pink Specks Floor Tile	NAD
5 - A	Classroom 116	12" x 12" White Feathered Pattern Floor Tile	NAD
5 - B	Classroom 116	Yellow/Brown Mastic associated with 12" x 12" White Feathered Pattern Floor Tile	NAD
6 - A	Classroom 113	12" x 12" White Feathered Pattern Floor Tile	NAD
6 - B	Classroom 113	Yellow/Brown Mastic associated with 12" x 12" White Feathered Pattern Floor Tile	NAD
7 - A	Classroom 220	12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
7 - B	Classroom 220	Mastic associated with 12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
8 - A	Classroom 220	12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
8 - B	Classroom 220	Mastic associated with 12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
9 - A	Classroom 221	9" x 9" Orange Floor Tile	NAD
9 - B	**Classroom 221**	**Black Mastic associated with 9" x 9" Orange Floor Tile**	**Asbestos: 8% Chrysotile**
10 - A	Classroom 221	9" x 9" Orange Floor Tile	NAD
10 - B	Classroom 221	Black Mastic associated with 9" x 9" Orange Floor Tile	N/A
11	Classroom 224	Residual Yellow/Black Floor Mastics	NAD
12	Classroom 224	Residual Yellow/Black Floor Mastics	NAD
13 - A	Classroom 228	Tan Floor Tile (unknown size)	NAD
13 - B	Classroom 228	Yellow Mastic associated with Tan Floor Tile (unknown size)	NAD
14 - A	Classroom 228	Tan Floor Tile (unknown size)	NAD

Table Notes:
NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
14 - B	Classroom 228	Yellow Mastic associated with Tan Floor Tile (unknown size)	NAD

Table Notes:
NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

ATTACHMENT

LABORATORY RESULTS AND CHAINS OF CUSTODY

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
1 - A	9" x 9" Green Floor Tile with Yellow and Black Mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_1	*yellow mastic*				Dissolved
1 - B	9" x 9" Green Floor Tile with Yellow and Black Mastic	**5% Chrysotile**		**95% Other**	Green Non Fibrous Homogeneous
1610183PLM_15	*tile*				Dissolved
1 - C	9" x 9" Green Floor Tile with Yellow and Black Mastic	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1610183PLM_16	*black mastic*				Dissolved
2 - A	9" x 9" Green Floor Tile with Yellow and Black Mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_2	*yellow mastic*				Dissolved
2 - B	9" x 9" Green Floor Tile with Yellow and Black Mastic	**Not Analyzed**			
1610183PLM_17	*tile*				
2 - C	9" x 9" Green Floor Tile with Yellow and Black Mastic	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1610183PLM_18	*black mastic*				Dissolved
3 - A	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	**None Detected**		**100% Other**	White Non Fibrous Homogeneous
1610183PLM_3	*tile*				Dissolved
3 - B	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_19	*mastic*				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
4 - A	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1610183PLM_4	*tile*				Dissolved
4 - B	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_20	*mastic*				Dissolved
5 - A	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1610183PLM_5	*tile*				Dissolved
5 - B	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_21	*mastic*				Dissolved
6 - A	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1610183PLM_6	*tile*				Dissolved
6 - B	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_22	*mastic*				Dissolved
7 - A	12" x 12" Beige with Cream and Blue Specks FT	None Detected		100% Other	Beige Non Fibrous Homogeneous
1610183PLM_7	*tile*				Dissolved
7 - B	12" x 12" Beige with Cream and Blue Specks FT	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_23	*mastic*				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
8 - A	12" x 12" Beige with Cream and Blue Specks FT	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous
1610183PLM_8	*tile*				Dissolved
8 - B	12" x 12" Beige with Cream and Blue Specks FT	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_24	*mastic*				Dissolved
9 - A	9" x 9" Orange Floor Tile with Black Mastic	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous
1610183PLM_9	*tile*				Dissolved
9 - B	9" x 9" Orange Floor Tile with Black Mastic	**8% Chrysotile**		**92% Other**	Black Non Fibrous Homogeneous
1610183PLM_25	*mastic*				Dissolved
10 - A	9" x 9" Orange Floor Tile with Black Mastic	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous
1610183PLM_10	*tile*				Dissolved
10 - B	9" x 9" Orange Floor Tile with Black Mastic	**Not Analyzed**			
1610183PLM_26	*mastic*				
11	Residual Yellow/Black Floor Mastic	**None Detected**		**100% Other**	Yellow, Black Non Fibrous Heterogeneous
1610183PLM_11					Dissolved
12	Residual Yellow/Black Floor Mastic	**None Detected**		**100% Other**	Yellow, Black Non Fibrous Heterogeneous
1610183PLM_12					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
13 - A	Tan Floor Tile (unknown Size) with Yellow Mastic	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous
1610183PLM_13	*tile*				Dissolved
13 - B	Tan Floor Tile (unknown Size) with Yellow Mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_27	*mastic*				Dissolved
14 - A	Tan Floor Tile (unknown Size) with Yellow Mastic	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous
1610183PLM_14	*tile*				Dissolved
14 - B	Tan Floor Tile (unknown Size) with Yellow Mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1610183PLM_28	*mastic*				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

1610183

Client:	ECS Mid-Atlantic, LLC
Contact:	Diana Krass
Address:	14026 Thunderbolt Place, Suite
Phone:	703-201-0249 (cell)
Fax:	
Email:	dkrass@ecslimited.com
Project:	47:1519-B
Client Notes:	**Positive Stop**
P.O. #.	47:1519-B
Date Submitted:	05/23/2016 Fedex
Analysis:	PLM EPA 600/R-93/116
TurnAroundTime:	3-Day TAT

Instructions:
Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Homogenous Material	Sample Description	Location
<<			
1	HA#1	9" x 9" Green Floor Tile with Yellow and Black Mastic	Classroom 112
2	HA#1	9" x 9" Green Floor Tile with Yellow and Black Mastic	Classroom 113
3	HA#2	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	Classroom 116
4	HA#2	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	Classroom 113
5	HA#3	12" x 12" White Feathered FT with Yellow/Brown Mastic	Classroom 116
6	HA#3	12" x 12" White Feathered FT with Yellow/Brown Mastic	Classroom 113
7	HA#4	12" x 12" Beige with Cream and Blue Specks FT	Classroom 220
8	HA#4	12" x 12" Beige with Cream and Blue Specks FT	Classroom 220
9	HA#5	9" x 9" Orange Floor Tile with Black Mastic	Classroom 221
10	HA#5	9" x 9" Orange Floor Tile with Black Mastic	Classroom 221
11	HA#6	Residual Yellow/Black Floor Mastic	Classroom 224
12	HA#6	Residual Yellow/Black Floor Mastic	Classroom 224
13	HA#7	Tan Floor Tile (unknown Size) with Yellow Mastic	Classroom 228
14	HA#7	Tan Floor Tile (unknown Size) with Yellow Mastic	Classroom 228
>>			

Accepted ☑
Rejected ☐

5/23 1040



LIMITED ASBESTOS CONTAINING MATERIAL SURVEY

MOUNT VERNON ELEMENTARY SCHOOL
2601 COMMONWEALTH AVENUE
ALEXANDRIA, VIRGINIA

ECS PROJECT NO. 47:1519

FOR

ALEXANDRIA CITY PUBLIC SCHOOLS

MARCH 2, 2016

ECS MID-ATLANTIC, LLC
"Setting the Standard for Service"
Geotechnical • Construction Materials • Environmental • Facilities

March 2, 2016

Mr. John Finnigan
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
john.finnigan@acps.k12.va.us

ECS Project No. 47:1519

Reference: Limited Asbestos Containing Material Survey, Mount Vernon Elementary School, 2601 Commonwealth Avenue, Alexandria, Virginia

Dear Mr. Finnigan:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced non-invasive sampling for the school facility. This work was performed in general conformance with ECS Proposal No. 47:420-EP. The following is a summary of results of the above referenced work performed on February 22, 2016.

Black mastic on fiberglass ductwork insulation was found to contain asbestos.

ECS appreciates this opportunity to provide testing services for your project. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS MID ATLANTIC, LLC

Beverly E. Sedon
Senior Environmental Project Manager

Stephen R. Geraci
Regional Environmental Manager

I:_e-projects\1501-1600\1519 ACPS Mount Vernon\1519 Mount Vernon Report.doc

TABLE OF CONTENTS

	PAGE
BACKGROUND	**1**
METHODS AND RESULTS	**1**
Asbestos	1
RECOMMENDATIONS	**2**
Asbestos	2
LIMITATIONS	3
ATTACHMENTS	
Table 1 – Bulk Sampling of Suspect Asbestos-Containing Material	
Laboratory Results and Chain of Custody	
Photographs	

BACKGROUND

As requested by Mr. John Finnigan of ACPS, ECS visited the school facility on February 22, 2016 to survey a select area (Room 224) for suspect asbestos containing materials within the ceiling cavity.

Due to water intrusions associated with the roofing, the upper ceiling materials located above the drop ceiling had delaminated causing a few ceiling tiles to fall. ECS was requested to assess the material in the ceiling cavity since repairs were proposed to be performed.

This survey was limited to the accessible materials in the ceiling cavity proposed for possibly disturbance by repair activity: ceiling plaster, 1' x 1' ceiling tile and associated brown mastic, and black mastic on the duct insulation. No other areas or materials were included in this assessment at this time.

During the survey, ECS attempted to access suspect asbestos-containing building materials within the ceiling cavity. However, due to the destructive means required to access materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect asbestos-containing materials may be located in these and/or other inaccessible areas.

METHODS AND RESULTS

Asbestos

The asbestos sampling was performed by a Commonwealth of Virginia licensed asbestos inspector who has received EPA accredited training. Samples of suspect asbestos-containing material (ACM) were collected utilizing hand tools and placed into individual, labeled plastic bags. A total of 9 unique bulk suspect ACM samples were shipped to SAI, Inc in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately.

SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is found to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis. In total, 12 layers were analyzed.

Table 1 below summarizes the materials reported to contain asbestos. A list of the sampled materials and reported results is located in Table 2 attached to this report. Photographs of collected samples reported as asbestos containing are also attached to this report.

TABLE 1
ASBESTOS-CONTAINING MATERIALS SUMMARY

General Location	Material	Friability
Room 224 – Ceiling Cavity	Black Mastic on HVAC Duct Wrap	Category II Non-Friable

The asbestos containing black mastic was observed on the HVAC duct wrap (a foil with fiberglass insulation wrap). The material appeared to be in good condition.

RECOMMENDATIONS

Asbestos

Federal, state and local regulations require asbestos-containing materials be removed prior to disturbance by either renovations or demolishing the building. If the materials are proposed for disturbance associated with the repair activities, ECS recommends the identified asbestos-containing materials be removed by a Commonwealth of Virginia licensed asbestos abatement contractor prior to disturbance. Any assumed or newly discovered material(s) should be sampled by an accredited asbestos inspector prior to disturbance.

Prior to removal of Regulated Asbestos Containing Materials (RACMs) and selected non-friable materials, notification is required by either Virginia and/or the EPA. This notification, if appropriate, must be filed by a Virginia certified asbestos abatement contractor 20 calendar days before starting asbestos abatement activities, and for US EPA 10 working days prior to start of work.

If asbestos-containing materials are to be removed, it recommended that a Commonwealth of Virginia licensed asbestos Project Monitor observe the project. The monitor should review and monitor the abatement contractor's work practices over the course of the project. The Project Monitor should inform the building owner if the asbestos abatement contractor is not performing the work in accordance with federal and state regulations for asbestos. ECS can provide these services for an additional fee is requested.

Suspect asbestos containing materials not observed due to inaccessibility or not sampled due to the destructive means that sampling requires during the survey may be encountered during renovation activities. At the time of the survey, destructive means were not used to

locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, exterior areas, sub-grade sealants, flooring located below underlayments, areas behind walls, pipe chases, vapor barriers, etc. were deemed inaccessible and were not assessed. If additional suspect asbestos-containing materials are uncovered during renovation activities which were not accessible during this survey, it is recommended that these materials be sampled immediately upon discovery for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

The survey was limited to the sampled materials proposed for disturbance noted on the findings table attached to this report. No other materials within the unit or building were proposed to be disturbed or removed at the time of our survey and therefore, were not sampled. If additional materials are encountered during renovation work, or of additional areas of the unit are to be disturbed, it is recommended that these areas/materials be sampled for asbestos content or assumed to be asbestos containing. Additionally, if the roofing materials are proposed for disturbance, they should be assessed for asbestos prior to disturbance.

ECS recommends that the findings of this report be included in the AHERA Operations and Maintenance Plan (O&M Plan) for the school facility.

LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, suspect asbestos samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which suspect asbestos samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

The client agrees to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, information that may be necessary to prevent any danger to public health, safety, or the environment.

ATTACHMENT

TABLE 1
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIAL

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
1	Room 224 - Ceiling Cavity	1' x 1' Pinhole Ceiling Tile	NAD
2	Room 224 - Ceiling Cavity	1' x 1' Pinhole Ceiling Tile	NAD
3	Room 224 - Ceiling Cavity	Brown Ceiling Tile Mastic	NAD
4	Room 224 - Ceiling Cavity	Brown Ceiling Tile Mastic	NAD
5	**Room 224 - Ceiling Cavity**	**Black Mastic on Fiberglass Duct Wrap**	**Asbestos: 10% Chrysotile**
6	Room 224 - Ceiling Cavity	Black Mastic on Fiberglass Duct Wrap	N/A
7 - A	Room 224 - Ceiling Cavity	Ceiling Plaster - Finish	NAD
7 - B	Room 224 - Ceiling Cavity	Ceiling Plaster - Base	NAD
8 - A	Room 224 - Ceiling Cavity	Ceiling Plaster - Finish	NAD
8 - B	Room 224 - Ceiling Cavity	Ceiling Plaster - Base	NAD
9 - A	Room 224 - Ceiling Cavity	Ceiling Plaster - Finish	NAD
9 - B	Room 224 - Ceiling Cavity	Ceiling Plaster - Base	NAD

NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop

ATTACHMENT

LABORATORY RESULTS AND CHAIN OF CUSTODY

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Project: ACPS-Mt. Vernon

Lab Order ID: 1603568
Analysis ID: 1603568_PLM
Date Received: 2/23/2016
Date Reported: 2/23/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1 *1603568PLM_1*	1' x 1' Pinhole Ceiling Tile	**None Detected**	**95% Cellulose**	**5% Other**	White, Brown Fibrous Heterogeneous Dissolved, Teased
2 *1603568PLM_2*	1' x 1' Pinhole Ceiling Tile	**None Detected**	**95% Cellulose**	**5% Other**	White, Brown Fibrous Heterogeneous Dissolved, Teased
3 *1603568PLM_3*	Brown Ceiling Tile Mastic	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
4 *1603568PLM_4*	Brown Ceiling Tile Mastic	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
5 *1603568PLM_5*	Black Mastic on Duct Wrap	**10% Chrysotile**	**30% Cellulose** **10% Fiber Glass**	**50% Other**	Black, Tan Fibrous Heterogeneous Dissolved, Teased
6 *1603568PLM_6*	Black Mastic on Duct Wrap	**Not Analyzed**			
7 - A *1603568PLM_7*	Ceiling Plaster *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
7 - B *1603568PLM_12*	Ceiling Plaster *base*	**None Detected**		**100% Other**	Tan Non Fibrous Heterogeneous Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (12)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Project: ACPS-Mt. Vernon

Lab Order ID: 1603568
Analysis ID: 1603568_PLM
Date Received: 2/23/2016
Date Reported: 2/23/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
8 - A *1603568PLM_8*	Ceiling Plaster *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
8 - B *1603568PLM_10*	Ceiling Plaster *base*	**None Detected**		**80% Other** **20% Quartz**	Gray Non Fibrous Homogeneous Crushed
9 - A *1603568PLM_9*	Ceiling Plaster *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
9 - B *1603568PLM_11*	Ceiling Plaster *base*	**None Detected**		**80% Other** **20% Quartz**	Gray Non Fibrous Homogeneous Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (12)

Analyst

Approved Signatory

Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 1003568
Client Code: _____

Company Contact Information

Company: ECS	Contact: Beverly Sedon
Address: 1402 Le Thunderbolt PL Ste 100 Chantilly, VA 20151	Phone ☐:
	Fax ☐:
	Email ☒: bsedon@ecslimited.com

Billing/Invoice Information

Company: Same	
Contact:	
Address:	

Turn Around Times

90 Min. ☐	48 Hours ☐
3 Hours ☐	72 Hours ☐
6 Hours ☒	96 Hours ☐
12 Hours ☐	120 Hours ☐
24 Hours ☐	144+Hours ☐

PO Number: ACPS - Mt. Vernon
Project Name/Number: ACPS- Mt. Vernon

Asbestos Test Types

PLM EPA 600/R-93/116	☒
Positive stop ☒	
PLM Point Count	☐
PCM NIOSH 7400	☐
TEM AHERA	☐
TEM Level II	☐
TEM NIOSH 7402	☐
TEM Bulk Qualitative	☐
TEM Bulk Chatfield	☐
TEM Bulk Quantitative	☐
TEM Wipe ASTM D6480-99	☐
TEM Microvac ASTM D5755-02	☐
TEM Water EPA 100.2	☐
Other: _____	☐

Sample ID #	Description/Location	Volume/Area	Comments
9	See Elec Cor		

Accepted ☑

Rejected ☐

Total # of Samples 9

Relinquished by	Date/Time	Received by	Date/Time
B Arden	2/23/2016	B Shelley	2/23 1030

1603568

Client:	ECS Mid-Atlantic, LLC
Contact:	Beverly Sedon
Address:	14026 Thunderbolt Place, Suite
Phone:	301-672-2096 (cell)
Fax:	
Email:	bsedon@ecslimited.com
Project:	Mt Vernon
Client Notes:	**Positive Stop**
P.O. #.	Mt Vernon
Date Submitted:	2/22/2016 0:00
Analysis:	PLM EPA 600/R-93/116
TurnAroundTime:	6 Hour TAT

Instructions:
Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
1	HA1	1' x 1' Pinhole Ceiling Tile	
2	HA1	1' x 1' Pinhole Ceiling Tile	
3	HA2	Brown Ceiling Tile Mastic	
4	HA2	Brown Ceiling Tile Mastic	
5	HA3	Black Mastic on Duct Wrap	
6	HA3	Black Mastic on Duct Wrap	
7	HA4	Ceiling Plaster	
8	HA4	Ceiling Plaster	
9	HA4	Ceiling Plaster	
>>			

2.23
3:45

ATTACHMENT

PHOTOGRAPHS



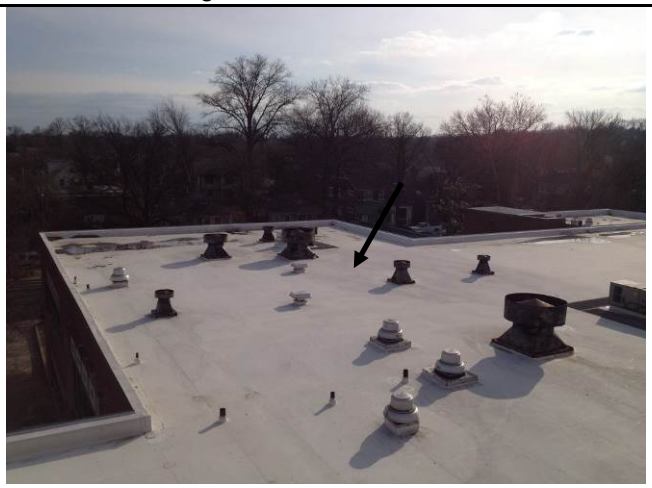
1. View of the ceiling cavity in Room 224 where the upper ceiling tile and plaster materials are delaminating.



2. View of the ceiling cavity in Room 224 where the upper ceiling tile and plaster materials are delaminating.



3. View of the ceiling cavity in Room 224 and location of black mastic (ACM) on the duct wrap, Samples 5-6.



4. View of the approximate location of the roof over Room 224 with ponded water and leaves over Room 225.



5. View of ponded water on the roof over the east portion of the building.

APPENDIX A

PREVIOUS REPORTS



LIMITED ASBESTOS CONTAINING MATERIAL SURVEY

MOUNT VERNON ELEMENTARY SCHOOL
2601 COMMONWEALTH AVENUE
ALEXANDRIA, VIRGINIA

ECS PROJECT NO. 47:1519

FOR

ALEXANDRIA CITY PUBLIC SCHOOLS

MARCH 2, 2016

ECS MID-ATLANTIC, LLC
"Setting the Standard for Service"
Geotechnical • Construction Materials • Environmental • Facilities

March 2, 2016

Mr. John Finnigan
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
john.finnigan@acps.k12.va.us

ECS Project No. 47:1519

Reference: Limited Asbestos Containing Material Survey, Mount Vernon Elementary School, 2601 Commonwealth Avenue, Alexandria, Virginia

Dear Mr. Finnigan:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced non-invasive sampling for the school facility. This work was performed in general conformance with ECS Proposal No. 47:420-EP. The following is a summary of results of the above referenced work performed on February 22, 2016.

Black mastic on fiberglass ductwork insulation was found to contain asbestos.

ECS appreciates this opportunity to provide testing services for your project. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS MID ATLANTIC, LLC

Beverly E. Sedon
Senior Environmental Project Manager

Stephen R. Geraci
Regional Environmental Manager

I:_e-projects\1501-1600\1519 ACPS Mount Vernon\1519 Mount Vernon Report.doc

TABLE OF CONTENTS

	PAGE
BACKGROUND	**1**
METHODS AND RESULTS	**1**
Asbestos	1
RECOMMENDATIONS	**2**
Asbestos	2
LIMITATIONS	3
ATTACHMENTS	
Table 1 – Bulk Sampling of Suspect Asbestos-Containing Material	
Laboratory Results and Chain of Custody	
Photographs	

BACKGROUND

As requested by Mr. John Finnigan of ACPS, ECS visited the school facility on February 22, 2016 to survey a select area (Room 224) for suspect asbestos containing materials within the ceiling cavity.

Due to water intrusions associated with the roofing, the upper ceiling materials located above the drop ceiling had delaminated causing a few ceiling tiles to fall. ECS was requested to assess the material in the ceiling cavity since repairs were proposed to be performed.

This survey was limited to the accessible materials in the ceiling cavity proposed for possibly disturbance by repair activity: ceiling plaster, 1' x 1' ceiling tile and associated brown mastic, and black mastic on the duct insulation. No other areas or materials were included in this assessment at this time.

During the survey, ECS attempted to access suspect asbestos-containing building materials within the ceiling cavity. However, due to the destructive means required to access materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect asbestos-containing materials may be located in these and/or other inaccessible areas.

METHODS AND RESULTS

Asbestos

The asbestos sampling was performed by a Commonwealth of Virginia licensed asbestos inspector who has received EPA accredited training. Samples of suspect asbestos-containing material (ACM) were collected utilizing hand tools and placed into individual, labeled plastic bags. A total of 9 unique bulk suspect ACM samples were shipped to SAI, Inc in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately.

SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is found to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis. In total, 12 layers were analyzed.

Table 1 below summarizes the materials reported to contain asbestos. A list of the sampled materials and reported results is located in Table 2 attached to this report. Photographs of collected samples reported as asbestos containing are also attached to this report.

TABLE 1
ASBESTOS-CONTAINING MATERIALS SUMMARY

General Location	Material	Friability
Room 224 – Ceiling Cavity	Black Mastic on HVAC Duct Wrap	Category II Non-Friable

The asbestos containing black mastic was observed on the HVAC duct wrap (a foil with fiberglass insulation wrap). The material appeared to be in good condition.

RECOMMENDATIONS

Asbestos

Federal, state and local regulations require asbestos-containing materials be removed prior to disturbance by either renovations or demolishing the building. If the materials are proposed for disturbance associated with the repair activities, ECS recommends the identified asbestos-containing materials be removed by a Commonwealth of Virginia licensed asbestos abatement contractor prior to disturbance. Any assumed or newly discovered material(s) should be sampled by an accredited asbestos inspector prior to disturbance.

Prior to removal of Regulated Asbestos Containing Materials (RACMs) and selected non-friable materials, notification is required by either Virginia and/or the EPA. This notification, if appropriate, must be filed by a Virginia certified asbestos abatement contractor 20 calendar days before starting asbestos abatement activities, and for US EPA 10 working days prior to start of work.

If asbestos-containing materials are to be removed, it recommended that a Commonwealth of Virginia licensed asbestos Project Monitor observe the project. The monitor should review and monitor the abatement contractor's work practices over the course of the project. The Project Monitor should inform the building owner if the asbestos abatement contractor is not performing the work in accordance with federal and state regulations for asbestos. ECS can provide these services for an additional fee is requested.

Suspect asbestos containing materials not observed due to inaccessibility or not sampled due to the destructive means that sampling requires during the survey may be encountered during renovation activities. At the time of the survey, destructive means were not used to

locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, exterior areas, sub-grade sealants, flooring located below underlayments, areas behind walls, pipe chases, vapor barriers, etc. were deemed inaccessible and were not assessed. If additional suspect asbestos-containing materials are uncovered during renovation activities which were not accessible during this survey, it is recommended that these materials be sampled immediately upon discovery for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

The survey was limited to the sampled materials proposed for disturbance noted on the findings table attached to this report. No other materials within the unit or building were proposed to be disturbed or removed at the time of our survey and therefore, were not sampled. If additional materials are encountered during renovation work, or of additional areas of the unit are to be disturbed, it is recommended that these areas/materials be sampled for asbestos content or assumed to be asbestos containing. Additionally, if the roofing materials are proposed for disturbance, they should be assessed for asbestos prior to disturbance.

ECS recommends that the findings of this report be included in the AHERA Operations and Maintenance Plan (O&M Plan) for the school facility.

LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, suspect asbestos samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which suspect asbestos samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

The client agrees to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, information that may be necessary to prevent any danger to public health, safety, or the environment.

ATTACHMENT

TABLE 1
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIAL

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
1	Room 224 - Ceiling Cavity	1' x 1' Pinhole Ceiling Tile	NAD
2	Room 224 - Ceiling Cavity	1' x 1' Pinhole Ceiling Tile	NAD
3	Room 224 - Ceiling Cavity	Brown Ceiling Tile Mastic	NAD
4	Room 224 - Ceiling Cavity	Brown Ceiling Tile Mastic	NAD
5	**Room 224 - Ceiling Cavity**	**Black Mastic on Fiberglass Duct Wrap**	**Asbestos: 10% Chrysotile**
6	Room 224 - Ceiling Cavity	Black Mastic on Fiberglass Duct Wrap	N/A
7 - A	Room 224 - Ceiling Cavity	Ceiling Plaster - Finish	NAD
7 - B	Room 224 - Ceiling Cavity	Ceiling Plaster - Base	NAD
8 - A	Room 224 - Ceiling Cavity	Ceiling Plaster - Finish	NAD
8 - B	Room 224 - Ceiling Cavity	Ceiling Plaster - Base	NAD
9 - A	Room 224 - Ceiling Cavity	Ceiling Plaster - Finish	NAD
9 - B	Room 224 - Ceiling Cavity	Ceiling Plaster - Base	NAD

NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop

ATTACHMENT

LABORATORY RESULTS AND CHAIN OF CUSTODY

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org
LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Project: ACPS-Mt. Vernon

Lab Order ID: 1603568
Analysis ID: 1603568_PLM
Date Received: 2/23/2016
Date Reported: 2/23/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1 *1603568PLM_1*	1' x 1' Pinhole Ceiling Tile	**None Detected**	**95% Cellulose**	**5% Other**	White, Brown Fibrous Heterogeneous Dissolved, Teased
2 *1603568PLM_2*	1' x 1' Pinhole Ceiling Tile	**None Detected**	**95% Cellulose**	**5% Other**	White, Brown Fibrous Heterogeneous Dissolved, Teased
3 *1603568PLM_3*	Brown Ceiling Tile Mastic	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
4 *1603568PLM_4*	Brown Ceiling Tile Mastic	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
5 *1603568PLM_5*	Black Mastic on Duct Wrap	**10% Chrysotile**	**30% Cellulose** **10% Fiber Glass**	**50% Other**	Black, Tan Fibrous Heterogeneous Dissolved, Teased
6 *1603568PLM_6*	Black Mastic on Duct Wrap	**Not Analyzed**			
7 - A *1603568PLM_7*	Ceiling Plaster *finish*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
7 - B *1603568PLM_12*	Ceiling Plaster *base*	**None Detected**		**100% Other**	Tan Non Fibrous Heterogeneous Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (12)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org
LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly VA 20151

Attn: Beverly Sedon

Project: ACPS-Mt. Vernon

Lab Order ID: 1603568
Analysis ID: 1603568_PLM
Date Received: 2/23/2016
Date Reported: 2/23/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
8 - A	Ceiling Plaster	None Detected		100% Other	White Non Fibrous Homogeneous
1603568PLM_8	*finish*				Crushed
8 - B	Ceiling Plaster	None Detected		80% Other 20% Quartz	Gray Non Fibrous Homogeneous
1603568PLM_10	*base*				Crushed
9 - A	Ceiling Plaster	None Detected		100% Other	White Non Fibrous Homogeneous
1603568PLM_9	*finish*				Crushed
9 - B	Ceiling Plaster	None Detected		80% Other 20% Quartz	Gray Non Fibrous Homogeneous
1603568PLM_11	*base*				Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (12)

Analyst

Approved Signatory

Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 1603568
Client Code: _____

Company Contact Information	
Company: ECS	Contact: Beverly Sedon
Address: 1402 Le Thunderbolt PL Ste 100 Chantilly, VA 20151	Phone ☐:
	Fax ☐:
	Email ☒: bsedon@ecslimited.com

Billing/Invoice Information	Turn Around Times	
Company: Same	90 Min. ☐	48 Hours ☐
Contact:	3 Hours ☐	72 Hours ☐
Address:	6 Hours ☒	96 Hours ☐
	12 Hours ☐	120 Hours ☐
	24 Hours ☐	144+Hours ☐

PO Number: ACPS - Mt. Vernon
Project Name/Number: ACPS- Mt. Vernon

Asbestos Test Types	
PLM EPA 600/R-93/116	☒
Positive stop	☒
PLM Point Count	☐
PCM NIOSH 7400	☐
TEM AHERA	☐
TEM Level II	☐
TEM NIOSH 7402	☐
TEM Bulk Qualitative	☐
TEM Bulk Chatfield	☐
TEM Bulk Quantitative	☐
TEM Wipe ASTM D6480-99	☐
TEM Microvac ASTM D5755-02	☐
TEM Water EPA 100.2	☐
Other: _____	☐

Sample ID #	Description/Location	Volume/Area	Comments
9	See Elec Cor		

Accepted ☑

Rejected ☐

Total # of Samples 9

Relinquished by	Date/Time	Received by	Date/Time
B Sedon	2/23/2016	B Shelley	2/23 1030

1603568

Client:	ECS Mid-Atlantic, LLC	***Instructions:***	
Contact:	Beverly Sedon	*Use Column "B" for your contact info*	
Address:	14026 Thunderbolt Place, Suite		
Phone:	301-672-2096 (cell)	*To See an Example Click the bottom Example Tab.*	
Fax:			
Email:	bsedon@ecslimited.com		
		Enter samples between "<<" and ">>"	
Project:	Mt Vernon	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***	***Scientific Analytical Institute***
Client Notes:	**Positive Stop**	*Only Enter your data on the first sheet "Sheet1"*	
P.O. #.	Mt Vernon	*Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.*	***4604 Dundas Drive Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 Email: lab@sailab.com***
Date Submitted:	2/22/2016 0:00		
Analysis:	PLM EPA 600/R-93/116		
TurnAroundTime:	6 Hour TAT		

Sample Number	Data 1	Sample Description	Data 2
<<			
1	HA1	1' x 1' Pinhole Ceiling Tile	
2	HA1	1' x 1' Pinhole Ceiling Tile	
3	HA2	Brown Ceiling Tile Mastic	
4	HA2	Brown Ceiling Tile Mastic	
5	HA3	Black Mastic on Duct Wrap	
6	HA3	Black Mastic on Duct Wrap	
7	HA4	Ceiling Plaster	
8	HA4	Ceiling Plaster	
9	HA4	Ceiling Plaster	
>>			

2.23
3:45



REPORT OF LIMITED ASBESTOS-CONTAINING MATERIALS SURVEY

MOUNT VERNON ELEMENTARY SCHOOL
2601 COMMONWEALTH AVENUE
ALEXANDRIA, VIRGINIA

ECS PROJECT NO. 47:1519-B

FOR

ALEXANDRIA CITY PUBLIC SCHOOLS

JUNE 21, 2016

June 21, 2016

Mr. John Finnigan
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
john.finnigan@acps.k12.va.us

ECS Project No. 47:1519-B

Reference: Report for Limited Asbestos-Containing Materials Survey, Mount Vernon Elementary School, 2601 Commonwealth Avenue, Alexandria, Virginia

Dear Mr. Finnigan:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above-referenced non-invasive sampling for the school facility. This work was performed in general conformance with ECS Proposal No. 47:1017-EP, dated April 27, 2016. The following is a summary of results of the above referenced work performed on May 20, 2016.

The 9" x 9" green floor tile and black mastic associated with the 9" x 9" orange floor tile were found to contain asbestos.

ECS appreciates this opportunity to provide testing services for your project. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS MID-ATLANTIC SERVICES, LLC

Diana D. Krass
Senior Industrial Hygiene Manager

Stephen R. Geraci
Environmental Regional Manager

I:_e-projects\1501-1600\1519-B Mount Vernon ACM Sampling.doc

TABLE OF CONTENTS

	PAGE
SITE DESCRIPTION	**1**
METHODS AND RESULTS	**1**
RECOMMENDATIONS	**3**
LIMITATIONS	**4**

ATTACHMENTS: Photographs
Table 2 – Bulk Sampling of Suspect Asbestos-Containing Materials
Laboratory Results and Chains of Custody

SITE DESCRIPTION

As requested by Mr. John Finnigan of ACPS, ECS visited the school facility on May 20, 2016 to perform a survey and collect representative samples of flooring materials from classrooms 112, 113, 116, 219, 220, 221, 224 and 228.

This survey was limited to the flooring systems within above-referenced subject areas that are proposed for renovations. No other areas or materials were included in this sampling event. At the time of this survey, the school facility was vacant.

METHODS AND RESULTS

Asbestos-Containing Materials

The asbestos sampling was performed by a Commonwealth of Virginia licensed asbestos inspector who has received EPA accredited training. Samples of suspect asbestos-containing material (ACM) were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were shipped to SAI, Inc. in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately.

SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis. Multiple samples of each unique material were submitted. Samples were analyzed using “Positive Stop” methodology. If one sample of a homogeneous material is found to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis. In total, fourteen (14) bulk samples were collected and thirty-four (34) layers were analyzed.

ACBM is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM. ACMs are categorized as follows:

- A friable ACBM is defined as any ACBM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.
- A non-friable ACBM is defined as any ACBM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
    - Category I non-friable ACBMs include: packing, gaskets, resilient floor coverings and asphalt roofing products containing more than one percent (>1%) asbestos.

- Category II non-friable ACBMs are any non-friable material, excluding Category I non-friable ACBM, containing more than one percent (>1%) asbestos.

Table 1 below summarizes the materials reported to contain asbestos. A list of the sampled materials and reported results is located in Table 2 attached to this report. Photographs of collected samples reported as asbestos-containing are also attached to this report.

TABLE 1
ASBESTOS-CONTAINING MATERIALS SUMMARY

Sample Location	Material	Category	Asbestos Concentration
Classrooms 112 and 113 (underneath carpet)	9” x 9” Green Floor Tile	Category I Non-Friable	5% Chrysotile
Classroom 221	Black Mastic associated with 9” x 9” Orange Floor Tile	Category I Non-Friable	3% Chrysotile

Asbestos-containing 9” x 9” green floor tiles were sampled from Classrooms 112 and 113, and were found in other locations:

- Classrooms 113 and 116, observed underneath carpet and two layers of 12” x 12” floor tiles;
- Classroom 219, observed underneath carpet;
- Classroom 220, observed underneath carpet and one layer of 12” x 12” floor tile:
- Classroom 221, observed underneath carpet and one layer of 12” x 12” floor tile, mixed with 9” x 9” orange floor tiles.

In classrooms 224 and 228, ECS observed non-asbestos containing residual yellow/black floor mastics and tan floor tile (unknown size) underneath carpet.

Identified asbestos-containing floor tiles and associated mastics should also be assumed to be present underneath other flooring systems, cabinets, shelves, and/or partition walls. ECS observed multiple flooring systems within the classrooms. All other collected bulk samples of observed floor tiles and associated mastics not referenced above were reported negative for asbestos.

RECOMMENDATIONS

Asbestos-Containing Materials

The materials listed in Table 1 consist of non-friable materials which contains greater than one percent (> 1%) asbestos. By definition, these materials are considered asbestos-containing materials (ACMs). Friable materials (i.e., able to be crumbled, pulverized, and/or reduced to powder by hand pressure when dry) will easily produce airborne asbestos fibers if disturbed. Non-friable materials may also produce airborne asbestos fibers if disturbed.

ECS recommends where a material type has been identified as asbestos-containing that all similar type (age, color, texture, etc.) materials throughout the building's interior and exterior be assumed to contain asbestos.

Federal, state and local regulations require asbestos-containing materials (ACMs) be removed prior to disturbance by either renovations or demolishing the building. ECS recommends the identified ACMs and any assumed ACMS found to be present within the building be removed by a Commonwealth of Virginia certified asbestos abatement contractor prior to disturbance. Any assumed or newly discovered material(s) should be sampled by an accredited asbestos inspector prior to disturbance.

Prior to removal of Regulated Asbestos Containing Materials (RACMs) and selected non-friable materials, notification may be required by either by Virginia and/or the EPA if the quantity of material exceeds 10 linear feet. This notification, if appropriate, must be filed by a Virginia certified asbestos abatement contractor 20 calendar days before starting asbestos abatement activities.

If ACMs are to be removed, it is generally required that a Commonwealth of Virginia licensed asbestos Project Monitor observe the project and collect final clearance samples. This involves collecting air samples from within and outside abatement work areas and also monitoring the abatement contractor's work practices over the course of the project. The Project Monitor should inform the building owner if the asbestos abatement contractor is not performing the work in accordance with project specifications (if applicable), and federal and state regulations for asbestos.

If additional areas of the building are scheduled to be renovated, further assessment of these areas is required under both OSHA and EPA prior to disturbance by a Virginia licensed asbestos inspector.

As good practice, ECS recommends development of asbestos Operations and Management Plan in general accordance with OSHA regulations, including procedures for training, notification of outside contractors, labeling etc.

LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, suspect asbestos samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which suspect asbestos samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

The client agrees to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, information that may be necessary to prevent any danger to public health, safety, or the environment.

ATTACHMENT

PHOTOGRAPHS



1. View of Classroom 112.



2. Classroom 112, View of Asbestos-Containing 9” x 9” Green Floor Tile. Sample No. 1-B.



3. View of Classroom 113.



4. Classroom 113, View of Asbestos-Containing 9” x 9” Green Floor Tile underneath Floor Tiles.



5. View of Classroom 221.



6. Classroom 221, View of Black Mastic associated with 9” x 9” Orange Floor Tile.

Limited Asbestos-Containing Materials Survey
Mount Vernon Elementary School
Alexandria, Virginia

Site Photographs
ECS Project No. 47:1519-B
Site Visit: May 20, 2016

ATTACHMENT

TABLE 2 – BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
1 - A	Classroom 112	Yellow Mastic associated with 9" x 9" Green Floor Tile	NAD
1 - B	**Classroom 112**	**9" x 9" Green Floor Tile**	**Asbestos: 5% Chrysotile**
1 - C	Classroom 112	Black Mastic associated with 9" x 9" Green Floor Tile	NAD
2 - A	Classroom 113	Yellow Mastic associated with 9" x 9" Green Floor Tile	NAD
2 - B	Classroom 113	9" x 9" Green Floor Tile	N/A
2 - C	Classroom 113	Black Mastic associated with 9" x 9" Green Floor Tile	NAD
3 - A	Classroom 116	12" x 12" White with Blue and Pink Specks Floor Tile	NAD
3 - B	Classroom 116	Yellow/Brown Mastics associated with 12" x 12" White with Blue and Pink Specks Floor Tile	NAD
4 - A	Classroom 113	12" x 12" White with Blue and Pink Specks Floor Tile	NAD
4 - B	Classroom 113	Yellow/Brown Mastics associated with 12" x 12" White with Blue and Pink Specks Floor Tile	NAD
5 - A	Classroom 116	12" x 12" White Feathered Pattern Floor Tile	NAD
5 - B	Classroom 116	Yellow/Brown Mastic associated with 12" x 12" White Feathered Pattern Floor Tile	NAD
6 - A	Classroom 113	12" x 12" White Feathered Pattern Floor Tile	NAD
6 - B	Classroom 113	Yellow/Brown Mastic associated with 12" x 12" White Feathered Pattern Floor Tile	NAD
7 - A	Classroom 220	12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
7 - B	Classroom 220	Mastic associated with 12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
8 - A	Classroom 220	12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
8 - B	Classroom 220	Mastic associated with 12" x 12" Beige with Cream and Blue Specks Floor Tile	NAD
9 - A	Classroom 221	9" x 9" Orange Floor Tile	NAD
9 - B	**Classroom 221**	**Black Mastic associated with 9" x 9" Orange Floor Tile**	**Asbestos: 8% Chrysotile**
10 - A	Classroom 221	9" x 9" Orange Floor Tile	NAD
10 - B	Classroom 221	Black Mastic associated with 9" x 9" Orange Floor Tile	N/A
11	Classroom 224	Residual Yellow/Black Floor Mastics	NAD
12	Classroom 224	Residual Yellow/Black Floor Mastics	NAD
13 - A	Classroom 228	Tan Floor Tile (unknown size)	NAD
13 - B	Classroom 228	Yellow Mastic associated with Tan Floor Tile (unknown size)	NAD
14 - A	Classroom 228	Tan Floor Tile (unknown size)	NAD

Table Notes:
NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
14 - B	Classroom 228	Yellow Mastic associated with Tan Floor Tile (unknown size)	NAD

Table Notes:
NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop
Bold - Asbestos Containing Materials

ATTACHMENT

LABORATORY RESULTS AND CHAINS OF CUSTODY

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP® NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1 - A *1610183PLM_1*	9" x 9" Green Floor Tile with Yellow and Black Mastic *yellow mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
1 - B *1610183PLM_15*	9" x 9" Green Floor Tile with Yellow and Black Mastic *tile*	**5% Chrysotile**		**95% Other**	Green Non Fibrous Homogeneous Dissolved
1 - C *1610183PLM_16*	9" x 9" Green Floor Tile with Yellow and Black Mastic *black mastic*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
2 - A *1610183PLM_2*	9" x 9" Green Floor Tile with Yellow and Black Mastic *yellow mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
2 - B *1610183PLM_17*	9" x 9" Green Floor Tile with Yellow and Black Mastic *tile*	**Not Analyzed**			
2 - C *1610183PLM_18*	9" x 9" Green Floor Tile with Yellow and Black Mastic *black mastic*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
3 - A *1610183PLM_3*	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic *tile*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
3 - B *1610183PLM_19*	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
4 - A	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1610183PLM_4	*tile*				Dissolved
4 - B	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_20	*mastic*				Dissolved
5 - A	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1610183PLM_5	*tile*				Dissolved
5 - B	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_21	*mastic*				Dissolved
6 - A	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1610183PLM_6	*tile*				Dissolved
6 - B	12" x 12" White Feathered FT with Yellow/Brown Mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_22	*mastic*				Dissolved
7 - A	12" x 12" Beige with Cream and Blue Specks FT	None Detected		100% Other	Beige Non Fibrous Homogeneous
1610183PLM_7	*tile*				Dissolved
7 - B	12" x 12" Beige with Cream and Blue Specks FT	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1610183PLM_23	*mastic*				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
8 - A *1610183PLM_8*	12" x 12" Beige with Cream and Blue Specks FT *tile*	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous Dissolved
8 - B *1610183PLM_24*	12" x 12" Beige with Cream and Blue Specks FT *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
9 - A *1610183PLM_9*	9" x 9" Orange Floor Tile with Black Mastic *tile*	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous Dissolved
9 - B *1610183PLM_25*	9" x 9" Orange Floor Tile with Black Mastic *mastic*	**8% Chrysotile**		**92% Other**	Black Non Fibrous Homogeneous Dissolved
10 - A *1610183PLM_10*	9" x 9" Orange Floor Tile with Black Mastic *tile*	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous Dissolved
10 - B *1610183PLM_26*	9" x 9" Orange Floor Tile with Black Mastic *mastic*	**Not Analyzed**			
11 *1610183PLM_11*	Residual Yellow/Black Floor Mastic	**None Detected**		**100% Other**	Yellow, Black Non Fibrous Heterogeneous Dissolved
12 *1610183PLM_12*	Residual Yellow/Black Floor Mastic	**None Detected**		**100% Other**	Yellow, Black Non Fibrous Heterogeneous Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: ECS Chantilly
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Attn: Dianne Krass

Project: 47:1519-B

Lab Order ID: 1610183
Analysis ID: 1610183_PLM
Date Received: 5/24/2016
Date Reported: 5/26/2016

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
13 - A *1610183PLM_13*	Tan Floor Tile (unknown Size) with Yellow Mastic *tile*	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous Dissolved
13 - B *1610183PLM_27*	Tan Floor Tile (unknown Size) with Yellow Mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
14 - A *1610183PLM_14*	Tan Floor Tile (unknown Size) with Yellow Mastic *tile*	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous Dissolved
14 - B *1610183PLM_28*	Tan Floor Tile (unknown Size) with Yellow Mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (28)

Analyst

Approved Signatory

1610183

Client:	ECS Mid-Atlantic, LLC
Contact:	Diana Krass
Address:	14026 Thunderbolt Place, Suite
Phone:	703-201-0249 (cell)
Fax:	
Email:	dkrass@ecslimited.com
Project:	47:1519-B
Client Notes:	**Positive Stop**
P.O. #.	47:1519-B
Date Submitted:	05/23/2016 Fedex
Analysis:	PLM EPA 600/R-93/116
TurnAroundTime:	3-Day TAT

Instructions:

Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Homogenous Material	Sample Description	Location
<<			
1	HA#1	9" x 9" Green Floor Tile with Yellow and Black Mastic	Classroom 112
2	HA#1	9" x 9" Green Floor Tile with Yellow and Black Mastic	Classroom 113
3	HA#2	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	Classroom 116
4	HA#2	12" x 12" White with Blue and Pink Specks FT with Yellow/Brown Mastic	Classroom 113
5	HA#3	12" x 12" White Feathered FT with Yellow/Brown Mastic	Classroom 116
6	HA#3	12" x 12" White Feathered FT with Yellow/Brown Mastic	Classroom 113
7	HA#4	12" x 12" Beige with Cream and Blue Specks FT	Classroom 220
8	HA#4	12" x 12" Beige with Cream and Blue Specks FT	Classroom 220
9	HA#5	9" x 9" Orange Floor Tile with Black Mastic	Classroom 221
10	HA#5	9" x 9" Orange Floor Tile with Black Mastic	Classroom 221
11	HA#6	Residual Yellow/Black Floor Mastic	Classroom 224
12	HA#6	Residual Yellow/Black Floor Mastic	Classroom 224
13	HA#7	Tan Floor Tile (unknown Size) with Yellow Mastic	Classroom 228
14	HA#7	Tan Floor Tile (unknown Size) with Yellow Mastic	Classroom 228
>>			

Accepted ☑

Rejected ☐

Tstulley 5/23/16 10A

ATTACHMENT

PHOTOGRAPHS



1. View of the ceiling cavity in Room 224 where the upper ceiling tile and plaster materials are delaminating.



2. View of the ceiling cavity in Room 224 where the upper ceiling tile and plaster materials are delaminating.



3. View of the ceiling cavity in Room 224 and location of black mastic (ACM) on the duct wrap, Samples 5-6.



4. View of the approximate location of the roof over Room 224 with ponded water and leaves over Room 225.



5. View of ponded water on the roof over the east portion of the building.

ACPS – Mount Vernon
2601 Commonwealth Avenue
Alexandria, VA

Site Photographs
ECS Project No. 47:1519
Site Visit: February 22, 2016

MOUNT VERNON COMMUNITY SCHOOL

Asbestos Sampling

A summary of materials found to contain asbestos or assumed to contain asbestos can be found in Table 1. A list of materials sampled and tested for asbestos content can be found in Table 3.

TABLE 1
ASBESTOS-CONTAINING MATERIALS SUMMARY

General Location	Material Description	Friability
REPORTED ON PRIOR SURVEYS		
AHU Room across from Room 233 (Assumed in other Areas)	Ceiling White Plaster*	Friable
Storage Room near Room 114 on 1st Floor (Assumed in other Areas)	9" x 9" Black Floor Tiles and associated Mastic	Category I Non-Friable
2nd Floor Storage by Janitor's Closet (Assumed in other Areas)	Surfacing Trowel on Ceiling	Friable
Cafeteria on 1st Floor (Observed above Drop Ceiling Tile throughout the Building)	Brown Ceiling Mastic**	Category II Non-Friable
Hallway of Rooms 223-225 (Observed above Drop Ceiling Tile throughout the Building)	Black Pipe Mastic***	Category II Non-Friable
Hallway of Rooms 111-117 (Observed above Drop Ceiling Tile in the Book Room) (Assumed in other Areas)	TSI – Mudded Elbows (2"OD)*	Friable
Hallways (Observed in other Areas)	Fire Door Insulation	Friable

General Location	Material Description	Friability
REPORTED ON PRIOR SURVEYS		
Janitor's Closet near Room 105 and Storage next to Closet on 1st Floor (Assumed in other Areas)	TSI – Mudded Elbows (4"OD)*	Friable
Wings Book Room (Assumed in other Areas)	9" x 9" Maroon Floor Tile and associated Mastic	Category I Non-Friable
Above Drop Ceiling Tile in Room 112 on 1st Floor (Observed above Drop Ceiling Tile throughout the Building)	Black Mastic on Foil Wrap Duct***	Category II Non-Friable
Above Drop Ceiling Tile in Room 112 on 1st Floor (Observed above Drop Ceiling Tile throughout the Building)	Black Mastic on Pipe***	Category II Non-Friable
Room 225 on 2nd Floor (Observed above Drop Ceiling Tile throughout the Building)	Black Mastic on Fiberglass Pipe***	Category II Non-Friable
SAMPLED BY ECS IN OCTOBER 21, 2013		
Custodial Office/Mechanical Room in Boiler Room (Assumed in other Areas)	12" x 12" Olive Mottled Floor Tile and associated Black Mastic	Category I Non-Friable
Kitchen Staff Locker Room (Assumed in other Areas)	12" x 12" Beige Mottled Floor Tile and associated Black Mastic	Category I Non-Friable
Above Drop Ceiling Tile in Hallway between Classrooms 118-123 (Assumed in other Areas)	2" Pipe Insulation	Friable
Classroom 123 at Sink Cabinet (under 12" x 12" Floor Tile) (Assumed in other Areas)	Black Mastic associated with Orange Floor Tile	Category I Non-Friable

General Location	Material Description	Friability
REPORTED ON PRIOR SURVEYS		
Classrooms 123 and 111 (Assumed under Carpet in other Areas)	Brown/Black Floor Tile and associated Black Mastic	Category I Non-Friable
Classroom 117 (Assumed under Carpet in other Areas)	Green Floor Tile	Category I Non-Friable
MATERIALS ASSUMED TO CONTAIN ASBESTOS ****		
Throughout Building	Interior Pipe Wrap associated with Water Fountains and Radiators	Category II Non-Friable
Throughout Building	Interior Door Caulk	Category II Non-Friable
Cafeteria	Tectum Panels	Category II Non-Friable
Auditorium on 1st Floor	Ceiling Plaster	Friable
Pipes within chases behind walls and above ceiling throughout the building	Thermal System Insulation (TSI)	Friable
Throughout Building	Pipe Flange Gaskets	Unknown
Mechanical Rooms	Electric Panels: Transite Components	Category II Non-Friable
Stage or other Areas	Floor Felt under Wood Flooring	Category I Non-Friable
Bathrooms	Mirror Mastics	Category II Non-Friable
Classrooms	Chalkboards and associated Mastics	Category II Non-Friable

General Location	Material Description	Friability
REPORTED ON PRIOR SURVEYS		
Behind Interior Finishes, Exterior Veneer and/or Subgrade Walls, and under Ceramic Flooring	Waterproofing Membranes/Mastics	Category II Non-Friable
Roof	Asphalt-Based Roofing Materials and Caulks/Sealants	Non-Friable

Notes: * These materials were observed damaged in the above listed locations.
** Residual of this material was observed on ceiling tiles lying on top of drop ceiling tiles. Water stained and missing ceiling tiles associated with this material were observed throughout the building.
*** These materials appeared to consist of the same type.
**** These materials, if present, could not be reached at the time of the survey. These materials should be presumed to be asbestos-containing materials (ACMs).

Physical Assessment

A summary of the physical assessment category for each identified and presumed friable ACM can be found in Table 2.

TABLE 2
PHYSICAL ASSESSMENT OF FRIABLE
ASBESTOS CONTAINING MATERIALS

Location	Material	Physical Assessment Category
AHU Room across from Room 233	Ceiling White Plaster	2 – Damaged Friable Surfacing ACBM
2nd Floor Storage by Janitor's Closet	Surfacing Trowel on Ceiling	6 – ACBM with Potential for Significant Damage
Above Drop Ceiling Tile in Hallway of Rooms 111-117	TSI – Mudded Elbows (2"OD)	6 – ACBM with Potential for Significant Damage
Above Drop Ceiling Tile in the Book Room	TSI – Mudded Elbows (2"OD)	1 – Damaged or Significantly Damaged TSI ACBM

Location	Material	Physical Assessment Category
Hallways (observed in Other Areas)	Fire Door Insulation	7 – Any Remaining Friable ACBM
Janitor's Closet near Room 105 on 1st Floor	TSI – Mudded Elbows (4"OD)	1 – Damaged or Significantly Damaged TSI ACBM
Storage next to Closet on 1st Floor	TSI – Mudded Elbows (4"OD)	6 – ACBM with Potential for Significant Damage
Above Drop Ceiling Tile in Hallway between Classrooms 118-123	2" Pipe Insulation	5 – ACBM with Potential for Damage
Auditorium on 1st Floor	Ceiling Plaster	7 – Friable Suspected ACBM

Recommendations

1) The following friable materials were observed damaged and should be repaired or removed by a Commonwealth of Virginia licensed asbestos abatement contractor:
   - White ceiling plaster in the AHU Room across the Room 233;
   - TSI – mudded elbows (2"OD) above drop ceiling tiles in the Book Room;
   - TSI – mudded elbows (4"OD) in the janitor's closet near Room 105 on 1st floor.

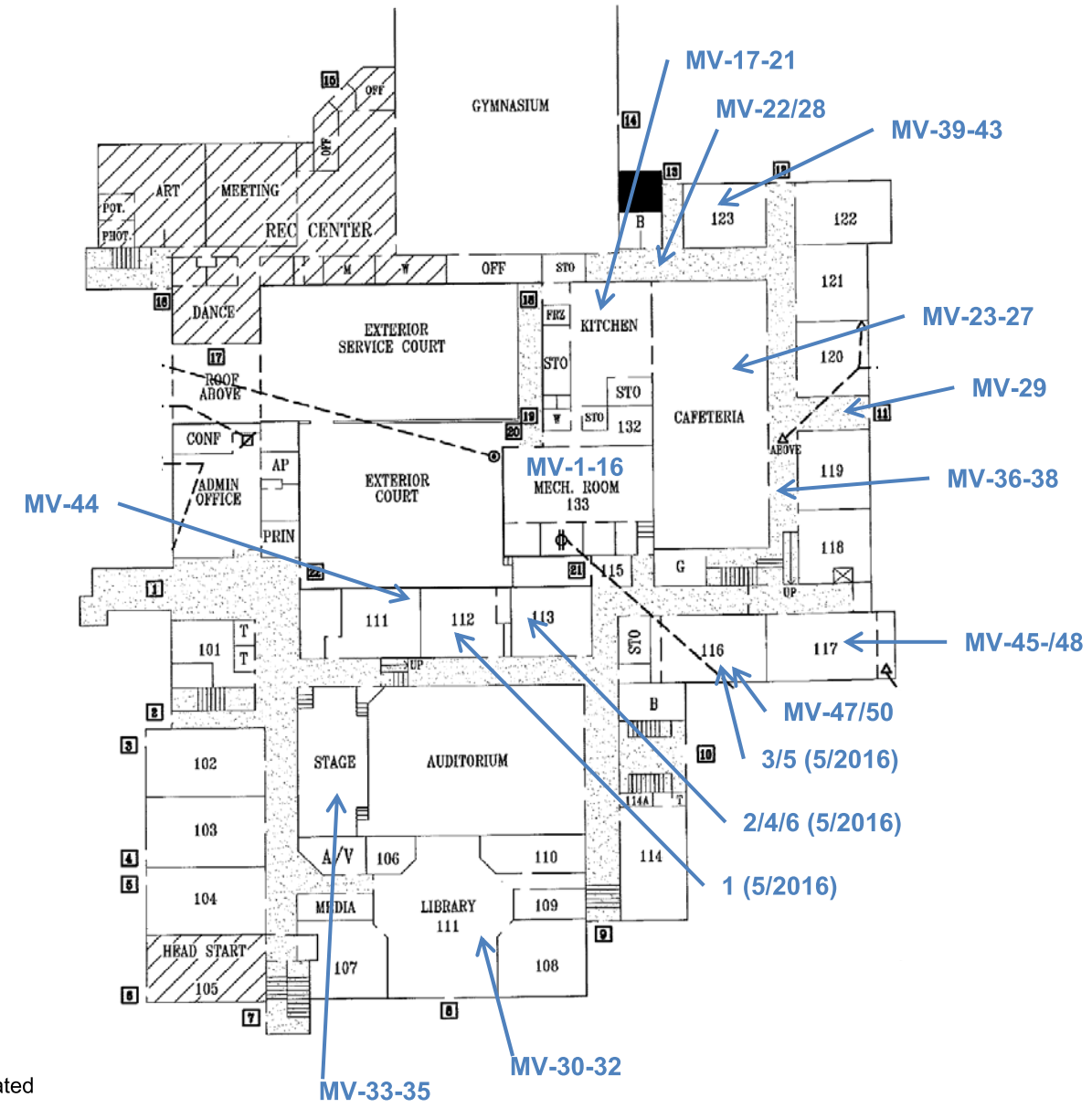
2) Residual identified asbestos-containing brown ceiling mastic was observed on 1' x 1' ceiling tiles lying on top of drop ceiling tiles. Water stained and missing 1' x 1' ceiling tiles associated with this material were also observed throughout the building. Any damaged 1' x 1' ceiling tile and residual brown ceiling mastic should be removed by personnel designated by the School and trained in Operations & Maintenance asbestos activities. Missing 1' x 1' ceiling tiles should be replaced as soon as possible to avoid future damage to the asbestos containing ceiling mastic.

3) The following materials appeared to consist of the same type and were considered as a homogeneous ACM:
   - Black Pipe Mastic;
   - Black Mastic on Pipe;
   - Black Mastic on Fiberglass Pipe.

APPENDIX B

FLOOR PLANS

1st FL



Legend
- Sample Number

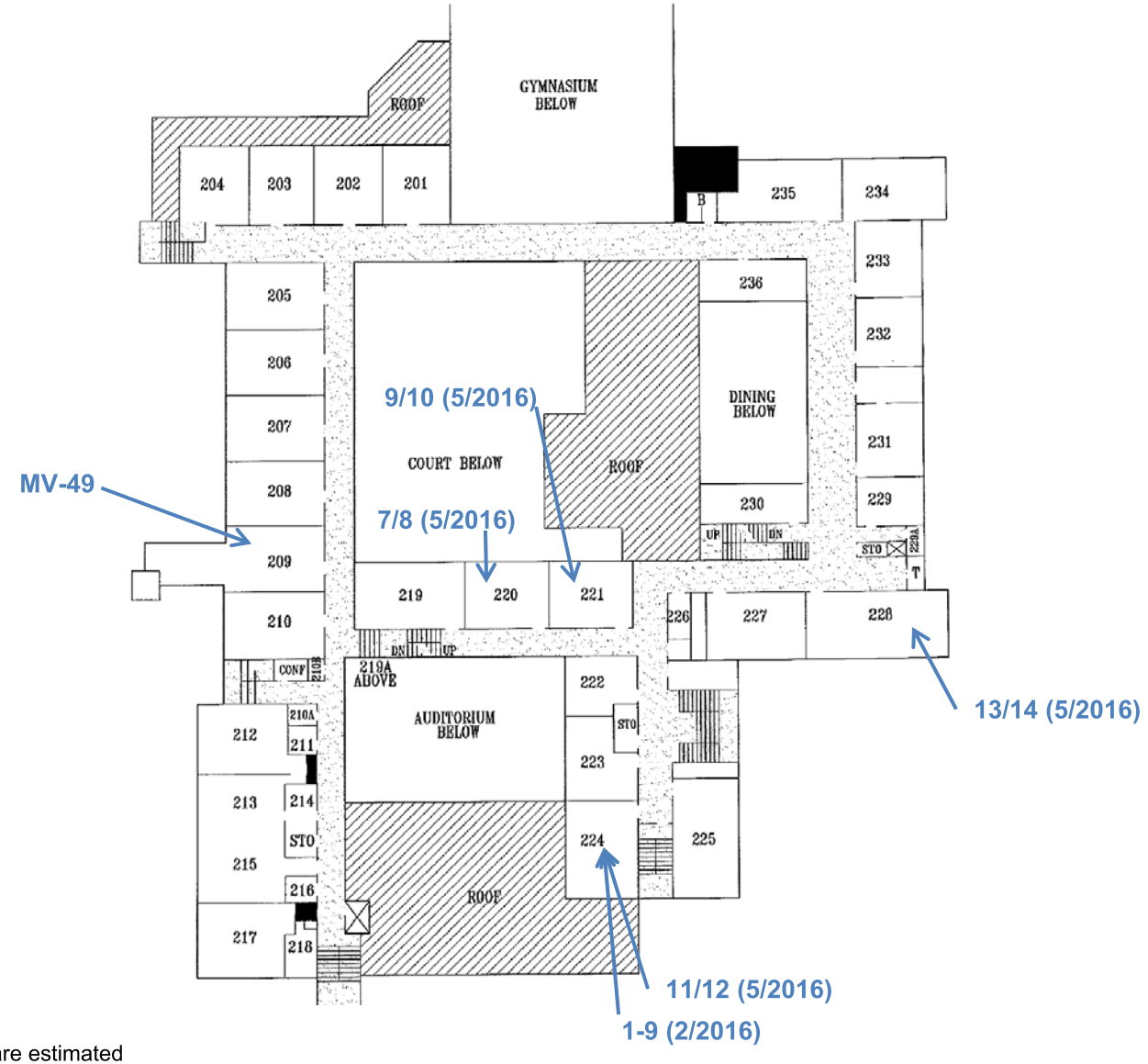
Notes
1. Sample Locations are estimated

MOUNT VERNON
2601 COMMONWEALTH AVE.
ALEXANDRIA, VIRGINIA

SAMPLING LOCATIONS
ACPS

SCALE	NTS
Project No.	47:1519-D
Date	3/31/2017

2nd FL



Legend
- Sample Number

Notes
1. Sample Locations are estimated

MOUNT VERNON
2601 COMMONWEALTH AVE.
ALEXANDRIA, VIRGINIA

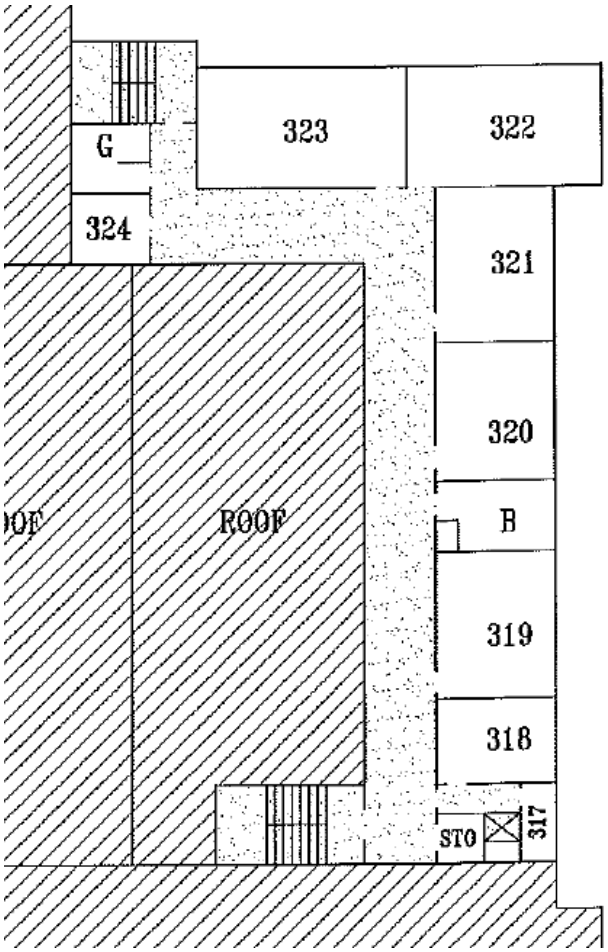
SAMPLING LOCATIONS
ACPS

SCALE NTS

Project No. 47:1519-D

Date 3/31/2017

3RD FL



Legend
- Sample Number

Notes
1. Sample Locations are estimated

MOUNT VERNON
2601 COMMONWEALTH AVE.
ALEXANDRIA, VIRGINIA

SAMPLING LOCATIONS
ACPS

SCALE NTS

Project No. 47:1519-D

Date 3/31/2017

APPENDIX C

ASBESTOS SUMMARY TABLES

MT. VERNON COMMUNITY CENTER SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

Updated as of 12/30/2016

MATERIAL	LOCATION	FRIABLE	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS								
White Plaster (Ceiling)	AHU Room across from Room 233	F	Intact	This material may be present in other areas	30-Dec-16	Maintain in O&M Plan		Verify Analytical Results
9" x 9" Black Floor Tiles and associated Mastic	Storage Room near Room 114	NF	N/A	This material was reported to be present in other areas; however, it was not observed in that location.	30-Dec-16	Maintain in O&M Plan		Not Observed in this area
Surfacing Trowel on Ceiling	2nd Floor Storage by Janitor's Closet	F	Intact	This material may be present in other areas	30-Dec-16	Maintain in O&M Plan		Verify Analytical Results
Brown Ceiling Mastic	Cafeteria on the 1st Floor (Observed above Drop Ceiling Tiles throughout the Building)	NF	Damaged	Lying, water stained and missing ceiling tiles associated with this material were observed. This material may be present in other areas	30-Dec-16	Remove or Enclose ASAP		Verify Analytical Results
Black Pipe Mastic	Hallway of Rooms 223-225 (Observed above Drop Ceiling Tile throughout the Building)	NF	Intact	This material was observed on fiberglass insulation. This material may be present in other areas	30-Dec-16	Maintain in O & M Plan		Verify Analytical Results
TSI-Mudded Elbows (2"OD)	Hallway of Rooms 111-117 (Observed above Drop Ceiling Tile in the Book Room)	F	Damaged	This material may be present in other areas	30-Dec-16	Repair of Abate		Verify Analytical Results
Fire Doors	Hallways	F	Intact	This material may be present in other areas	30-Dec-16	Maintain in O & M Plan		Verify Analytical Results
TSI-Mudded Elbows (4"OD)	Janitor's Closet near Room 105 and Storage next to Closet on 1st Floor	F	Damaged	This material may be present in other areas	30-Dec-16	Repair of Abate		Verify Analytical Results
9" x 9" Maroon With Black Floor Tiles and associated Mastic	Wings Book Room	NF	Intact	This material was reported to be present in the Old Wing; therefore it should be assumed to be present under 12" x 12" floor tiles	30-Dec-16	Maintain in O & M Plan		Verify Analytical Results
Black Mastic on Pipe and Foil Wrap Duct (on Fiberglass Pipe and Duct Insulation)	Above Drop Ceiling Tile in Room 112 on 1st Floor	NF	Intact	These materials were observed above the drop ceiling tiles in other areas throughout the building	30-Dec-16	Maintain in O & M Plan		Verify Analytical Results
Foil Wrap Duct (on Fiberglass Pipe and Duct Insulation)	Above Drop Ceiling Tile in Room 112 on 1st Floor	F	Intact	These materials were observed above the drop ceiling tiles in other areas throughout the building	30-Dec-16	Maintain in O & M Plan		Verify Analytical Results
Black Mastic on Fiberglass Pipe	Room 225 on 2nd Floor	NF	Intact	This material was observed above the drop ceiling tiles in other areas throughout the building	30-Dec-16	Maintain in O & M Plan		Verify Analytical Results

MT. VERNON COMMUNITY CENTER SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABLE	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS THAT WERE NOT IDENTIFIED/OBSERVED BY ECS IN OCTOBER 21, 2013 SURVEY								
Black Floor Mastic	1st Floor Auditorium	NF	N/A	Area cemented and walkway rugs in place	30-Dec-16	Remove from O & M Plan		Not observed - Verify removal
Tan Pipe Mastic on 6" Pipe	Cafeteria	NF	N/A	This material may be present in other areas	30-Dec-16	Maintain in O & M Plan for other areas		Not observed - Verify removal
12" x 12" Light Green Floor Tiles and associated Mastic	Cafeteria	NF	N/A	Material may be under existing partition walls, fixtures, cabinets, etc. throughout the building	30-Dec-16	Maintain in O & M Plan		Enclosed (Assumed to be present under Blue and White Floor Tiles)
White Plaster on Steel Support Beam	Room 209 and throughout 2nd Floor	F	N/A	This material may be present in other areas	30-Dec-16	Maintain in O & M Plan for other areas		Not observed/verify removal
12" x 12" Tan Floor Tiles and associated Mastic	Book Room	NF	N/A	This material is reported as PACM; however 9" x 9" floor tiles were observed in this area	30-Dec-16	Maintain in O & M Plan for other areas		Not observed - Sample if proposed to be disturbed
Floor Tile and associated Mastic	Kitchen	NF	N/A	This material is reported as PACM; however, ceramic tiles were observed in this area	30-Dec-16	Remove from O & M Plan		Not observed - Verify removal
9" x 9" Brown Floor Tiles and associated Mastic	Storage Room across from Boiler Room	NF	N/A	This material is reported as PACM; however it was not observed in this area	30-Dec-16	Maintain in O & M Plan for other areas		Not observed - Verify removal
ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN OCTOBER 21, 2013 SURVEY								
12" x 12" Olive Mottled Floor Tile and associated Mastic	Custodial Office/Mechanical Room in Boiler Room	NF	Intact	This material may be present in other areas	30-Dec-16	Add to O & M Plan		Asbestos: Floor Tile - 3% Chrysotile
12" x 12" Beige Mottled Floor Tile and associated Mastic	Kitchen Staff Locker Room	NF	Intact	This material may be present in other areas	30-Dec-16	Add to O & M Plan		Asbestos: Floor Tile - 5% Chrysotile
2" Pipe Insulation	Above Drop Ceiling Tiles in Hallway between Classrooms 118-123	F	Intact	This material may be present in other areas	30-Dec-16	Add to O & M Plan		Asbestos: 5% Chrysotile
Black Mastic associated with Orange Floor Tile	Classroom 123 at Sink Cabinet (under 12" x 12" Floor Tile)	NF	N/A	Not Observed at this location; This material may be present in other areas	30-Dec-16	Add to O & M Plan		Asbestos: 5% Chrysotile
Brown/Black Floor Tile and associated Black Mastic	Classroom 123 and 111 (Assumed under Carpet)	NF	Intact	This material may be present in other areas	30-Dec-16	Add to O & M Plan		Asbestos: Floor Tile - 5% Chrysotile
Green Floor Tile	Classroom 117 (Assumed under Carpet)	NF	Intact	This material may be present in other areas	30-Dec-16	Add to O & M Plan		Asbestos: 5% Chrysotile

MT. VERNON COMMUNITY CENTER SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABLE	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN FEBRUARY 22, 2016 SURVEY								
Black Mastic on Fiberglass Duct Wrap	Room 224 Ceiling Cavity	F	Intact		30-Dec-16	Add to O & M Plan		10% Chrysotile
ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN MAY 20, 2016 SURVEY								
9" x 9" Green Floor Tile	Room 112	NF	Intact		30-Dec-16	Add to O & M Plan		5% Chrysotile
Black Mastic of 9" x 9" Orange Floor Tile	Room 221	NF	Intact		30-Dec-16	Add to O & M Plan		8% Chrysotile
MATERIALS ASSUMED TO CONTAIN ASBESTOS								
Interior Pipe Wrap associated with Water Fountains and Radiators	Throughout the Building	F	Intact	PACM until tested	30-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Interior Door Caulk	Throughout the Building	NF	Intact	PACM until tested	30-Dec-16	Maintain in O & M Plan		Sampling if this material is to be disturbed
Tectum Panels	Cafeteria	NF	Intact	PACM until tested	30-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Ceiling Plaster	Auditorium on 1st Floor	F	Intact	PACM until tested	30-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Thermal System Insulation (TSI)	Pipes within chases behind walls and above ceiling throughout the building	F	Intact	PACM until tested	30-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Pipe Flange Gaskets	Throughout the Building	Unknown	Intact	PACM until tested	30-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Electrical Panels: Transite Components	Mechanical Rooms	NF	Intact	PACM until tested	30-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Floor Felt under Wood Flooring	Stage or other Areas of the Building	NF	Intact	PACM until tested	30-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Mirror Mastic	Bathrooms	NF	Intact	PACM until tested	30-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Chalkboards and associated Mastics	Classrooms	NF	Intact	PACM until tested	30-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Waterproofing Membranes/Mastics	Behind Interior Finishes, Exterior Veneer and/or Subgrade Walls, and Under Ceramic Flooring	NF	Intact	PACM until tested	30-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Asphalt-Based Roofing Materials and Caulks/Sealants	Roof	NF	Intact	PACM until tested	30-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed

MT. VERNON COMMUNITY CENTER SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABLE	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
NON-ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN OCTOBER 21, 2013 SURVEY								
Textured Plaster Ceiling	Boiler Room and Custodial Storage	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Grey Mastic on HVAC	Kitchen and Hallway by Gym	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Plaster Columns	Cafeteria	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Plaster Walls	Cafeteria and Hallway by Gym	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Interior Window Caulk	Library	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Fire Door Insulation	Stage	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Green Interior Window Caulk	Classrooms 117, 209 and 116	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Orange Floor Tile and associated Yellow Mastic	Classroom 123 at Sink Cabinet (under 12" x 12" Floor Tile)	NF	Intact	The black mastic associated wit this material is ACM, and is listed as such in the corresponding section of this table.	N/A	Add to O & M Plan	N/A	Floor Tile - NAD Yellow Mastic - NAD
Black and Brown Carpet Mastic associated with Green Floor Tile	Classroom 117 (under Carpet)	NF	Intact	The floor tile associated wit this material is ACM, and is listed as such in the corresponding section of this table.	N/A	Add to O & M Plan	N/A	Mastic - NAD
NON-ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN FEBRUARY 22, 2016 SURVEY								
1' x 1' Pinhole Ceiling Tile	Room 224 Ceiling Cavity	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Ceiling Tile Mastic	Room 224 Ceiling Cavity	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Ceiling Plaster	Room 224 Ceiling Cavity	N/A	N/A	N/A	N/A	N/A	N/A	Finish - NAD Base - NAD
NON-ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN MAY 20, 2016 SURVEY								
Yellow Mastic associated with 9" x 9" Green Floor Tile	Room 112	N/A	N/A	N/A	N/A	N/A	N/A	NAD

MT. VERNON COMMUNITY CENTER SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABLE	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
Black Mastic associated with 9" x 9" Green Floor Tile	Room 112	N/A	N/A	N/A	N/A	N/A	N/A	NAD
12" x 12" White with Blue and Pink Specks Floor Tile	Classroom 116	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Yellow/Brown Mastics associated with 12" x 12" White with Blue and Pink Specks Floor Tile	Classroom 116	N/A	N/A	N/A	N/A	N/A	N/A	NAD
12" x 12" White Feathered Pattern Floor Tile	Classroom 116	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Yellow/Brown Mastic associated with 12" x 12" White Feathered Pattern Floor Tile	Classroom 116	N/A	N/A	N/A	N/A	N/A	N/A	NAD
12" x 12" Beige with Cream and Blue Specks Floor Tile	Classroom 220	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Mastic associated with 12" x 12" Beige with Cream and Blue Specks Floor Tile	Classroom 220	N/A	N/A	N/A	N/A	N/A	N/A	NAD
9" x 9" Orange Floor Tile	Classroom 221	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Residual Yellow/Black Floor Mastics	Classroom 224	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Tan Floor Tile (unknown size)	Classroom 228	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Yellow Mastic associated with Tan Floor Tile (unknown size)	Classroom 228	N/A	N/A	N/A	N/A	N/A	N/A	NAD

Notes: F = Friable; NF = Non-Friable; PACM = Presumed Asbestos Containing Material; O & M Plan = Operations and Maintenance Plan; NAD = No Asbestos Detected, N/A = Not Applicable.

Mount Vernon Community Center 3-Year AHERA Re-Inspection Survey
Asbestos-Containing Materials Summary

Date: December 30, 2016

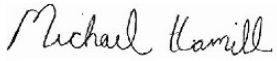
Address: 2601 Commonwealth Avenue, Alexandria, Virginia

Room	Material	Condition	Abated
AHU Room across from Room 233	White Plaster (Ceiling)	Intact	No
2nd Floor Janitor's Closets, 1st Hallway Closets	9" x 9" Black Floor Tiles and associated Mastic	Intact	No*
1st and 2nd Floor Storage Closets	Surfacing Trowel on Ceiling	Intact	No
Cafeteria on the 1st Floor (Observed above Drop Ceiling Tiles throughout the Building)	Brown Ceiling Mastic	Damaged	No
Hallway of Rooms 223-225 (Observed above Drop Ceiling Tile throughout the Building)	Black Pipe Mastic	Intact	No
Hallway of Rooms 111-117 (Observed above Drop Ceiling Tile in the Book Room)	TSI-Mudded Elbows (2"OD)	Damaged	No
Hallways	Fire Doors	Intact	No
Janitor’s Closet near Room 105, Storage next to Closet, & Hallway by Main Office on 1st Floor	TSI-Mudded Elbows (4"OD)	Damaged	No
Wings Book Room	9" x 9" Maroon With Black Floor Tiles and associated Mastic	Intact	No
Above Drop Ceiling Tile in Room 112 on 1st Floor	Black Mastic on Pipe and Foil Wrap Duct (on Fiberglass Pipe and Duct Insulation)	Intact	No
Above Drop Ceiling Tile in Room 112 on 1st Floor	Foil Wrap Duct (on Fiberglass Pipe and Duct Insulation)	Intact	No
By Main Office on 1st Floor/Room 225 on 2nd Floor	Black Mastic on Fiberglass Pipe	Intact	No
1st Floor Auditorium	Black Floor Mastic	Not Present	N/A

Room	Material	Condition	Abated
Cafeteria	Tan Pipe Mastic on 6" Pipe	Not Observed	N/A
Cafeteria	12" x 12" Light Green Floor Tiles and associated Mastic	Not Observed	N/A
Room 209 and throughout 2nd Floor	White Plaster on Steel Support Beam	Not Observed	N/A
Book Room	12" x 12" Tan Floor Tiles and associated Mastic	Not Observed	N/A
Kitchen	Floor Tile and associated Mastic	Not Observed	N/A
Storage Room across from Boiler Room	9" x 9" Brown Floor Tiles and associated Mastic	Not Observed	N/A
Custodial Office/Mechanical Room in Boiler Room	12" x 12" Olive Mottled Floor Tile and associated Mastic	Intact	No
Kitchen Staff Locker Room	12" x 12" Beige Mottled Floor Tile and associated Mastic	Intact	No
Above Drop Ceiling Tiles in Hallway between Classrooms 118-123	2" Pipe Insulation	Intact	No
Classroom 123 at Sink Cabinet (under 12" x 12" Floor Tile)	Black Mastic associated with Orange Floor Tile	Not Observed (Assumed underneath other Flooring Materials)	N/A
Classroom 123 and 111 (Assumed under Carpet)	Brown/Black Floor Tile and associated Black Mastic	Intact	No
Classroom 117 (Assumed under Carpet)	Green Floor Tile	Intact	No
Room 224 Ceiling Cavity	Black Mastic on Fiberglass Duct Wrap	Intact	No
Room 112	9" x 9" Green Floor Tile	Intact	No
Room 221	Black Mastic of 9" x 9" Orange Floor Tile	Intact	No

Room	Material	Condition	Abated
Comments			
* These materials were noted to be present in Storage Room(114A) near Room 114 on a previous report. They were not observed to be present in this location during this inspection.			

AHERA Inspector: Michael Hamill **License No:** 3303003941

Signature of Inspector: 

APPENDIX Q

HISTORICAL INFORMATION

COMMONWEALTH of VIRGINIA

DEPARTMENT OF EDUCATION
P.O. BOX 60
RICHMOND 23216-2060

April 10, 1990

Mr. William A. Simms
LEA AHERA Designee
3801 W. Braddock Road
Alexandria, VA 22302

Re: Management Plans Rec'd: 5/1/88
Division: Alexandria City Public Schools (101)

Dear Mr. Simms:

Enclosed is a listing of schools that you have submitted to the Department of Education for review. We have found the management plans for these schools to be complete and include the items listed on our review checklist.

Please insert a copy of this letter in each management plan to indicate that we find the plan complete. Your management planner should also be informed that our review is complete.

Sincerely,

David L. Boddy
Associate Director
Energy and Facilities Services

DLB:gmh

Enclosure(s)

A.F. Meyer and Associates, Inc.

Mount Vernon School
Alexandria, Virginia

Management Plan
for
Asbestos Containing
Building Materials

Environmental, System Safety, and Occupational Health Consultants

Virginia Department of Education
Energy and Facilities Services

AHERA MANAGEMENT PLAN COVER SHEET

LEA: Alexandria City Public Schools
Address: 3801 W. Braddock Road
Alexandria, VA 22302
County: City of Alexandria
Phone: 1-703-998-2102

MT. VERNON ELEM SCHOOL

Management Plan Submission: ☒ Original ☐ Resubmittal ☐ Building Occupied After Oct. 12, 1988

List of Documents Attached:

- ☑ A School Buildings
- ☐ B Previous Inspections
- ☑ C Determination of Sampling Locations
- ☑ D Description of Each Sample Area
- ☑ E Bulk Sample Analysis
- ☑ F Assessment of Materials
- ☑ G Response Actions Recommended
- ☑ H Preventive Measures and Response Actions Scheduled
- ☑ I Operations and Maintenance Plan
- ☑ J Resources Needed
- ☑ K Steps to Inform Others
- ☑ L Periodic Surveillance Plan
- ☑ M Reinspection Plan

LEA AHERA DESIGNEE

Typed Name: William A. Simms
Mailing Address: 3801 W. Braddock Road
Alexandria, VA 22302
Phone: Office 823-9666 Home 836-7565

Name of Training Course: Inspection (3 Days) Supervision (1 Day)
Year 88 Month 10 Day 3-6 Total Hours of Course 48
Name of Training Agency: Biospherics Inc.

MANAGEMENT PLANNER - I certify as a management planner that I have prepared or assisted in the preparation of such plan or have reviewed such plan, and that such plan is in compliance with 40 CFR Part 763 subpart E

Typed Name: Michael B. Wigenton
Signature: Michael B Wigenton
Accreditation Number: 8802-02-127
Agency: Tufts University

For persons who performed inspections, and recommend(ed) design, or carry out response actions (except for operations and maintenance) the local education agency used or will use persons who have been accredited by a state which has adopted a contractor accreditation plan under section 206(b) of Title II of the Act or is accredited by an EPA-approved course under section 206(c) of the Title II of the Act. In addition, the LEA has considered whether any conflict of interest may arise from the interrelationship among accredited personnel, such as abatement activities being performed by an inspector or management planner, and whether that should influence the selection of accredited personnel to perform activities under this AHERA program.

The signatories below certify that the general local education agency responsibilities, as stipulated by Part 763.84 have been met or will be met.

Signature: William A. Simms
LEA AHERA Designee
Date: 4-28-89

Signature: Paul W. Mason
LEA Superintendent
P.W. Mason
Typed Name of Superintendent
Date: 4-20-89

FOR REVIEWING AGENCY USE ONLY

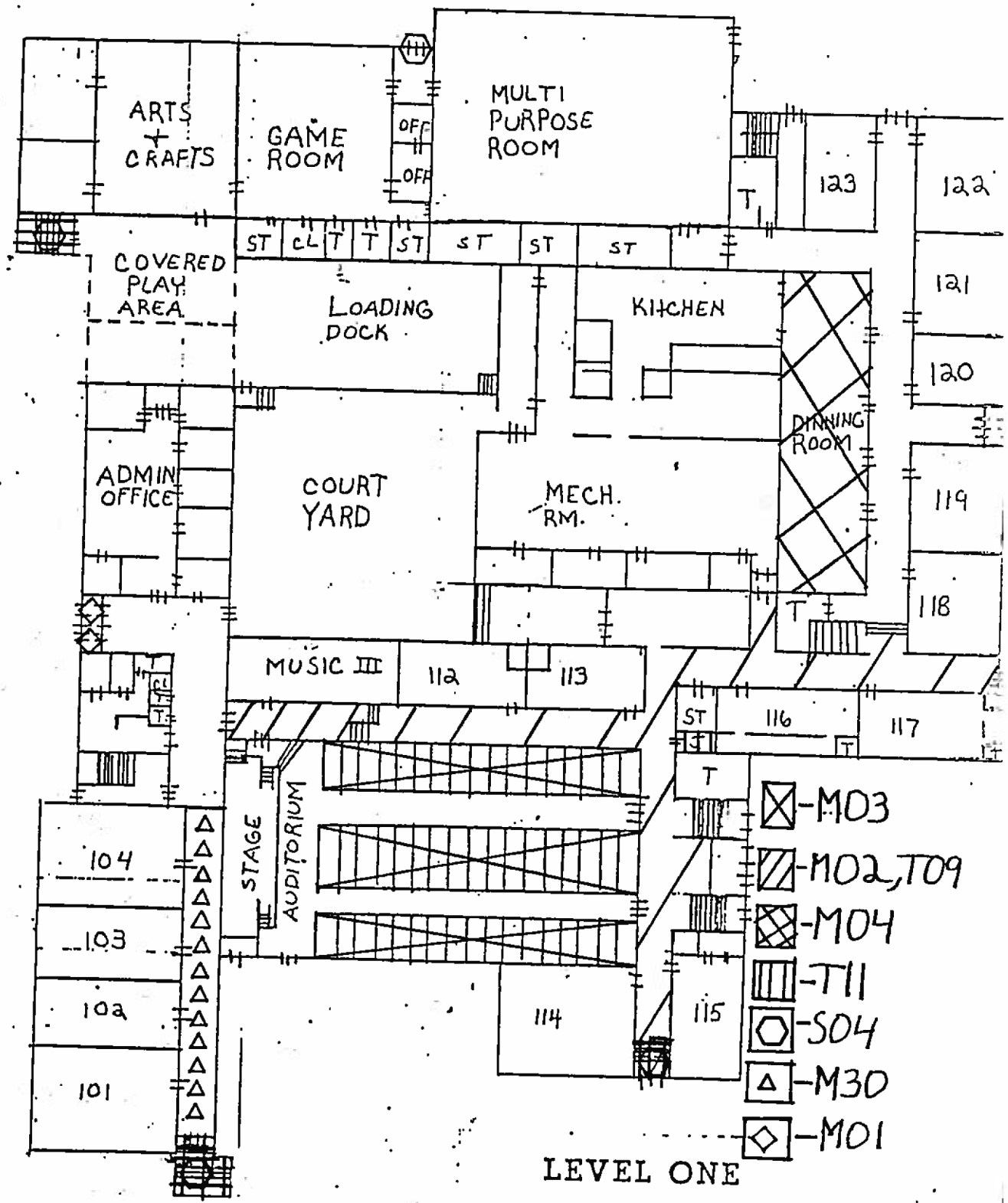
☐ Reviewed
☐ Returned for Reasons Stated Below

State I.D.# _____

Reviewer's Signature: _____
Date: _____

PHOTOCOPYING PERMITTED

MOUNT VERNON ELEMENTARY SCHOOL



ACMVHA01

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E T E R M I N A T I O N O F
S A M P L I N G L O C A T I O N S

DISCUSSION ON SELECTION OF HOMOGENEOUS AREAS:

Homogeneous areas identified in this report are those areas that a US EPA AHERA trained and accredited, Virginia licensed, inspector has established as an association of common features or elements among surfacing materials, thermal system materials, or miscellaneous material that is uniform in color and texture, was likely installed during the same timeframe, and is unlikely to consist of more than one type or formulation of material. In addition, functional space was considered in assigning the boundaries of the homogeneous area by virtue of the similarities or dissimilarities of material assessment factors as described in DOCUMENT F.

The Following Homogeneous Areas were Identified:

Homogeneous Area Name:
1' x 1' floor tile, gray

Homogeneous Area ID Number: M01

Field Documents:
Sample Area : ACMVSA01 ACMVSA04
Homogeneous Area: ACMVHA01 ACMVHA03
Photograph :

Estimated Amount of Material: 8,000 SF

Homogeneous Area Name:
Black/gray 9" x 9" floor tile

Homogeneous Area ID Number: M02

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP01

Estimated Amount of Material: 7,000 SF

Homogeneous Area Name:
Brown/red 9" x 9" floor tile, auditorium

Homogeneous Area ID Number: M03

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP02

Estimated Amount of Material: 4,450 SF

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: M Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

DETERMINATION OF SAMPLING LOCATIONS

The Following Homogeneous Areas were Identified:

Homogeneous Area Name:
Light green, 1' x 1' floor tile
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Homogeneous Area ID Number: M04

Estimated Amount of Material: 6,000 SF

Homogeneous Area Name:
Gyp wall
Field Documents:
Sample Area : ACMVSA03
Homogeneous Area:
Photograph :

Homogeneous Area ID Number: M05

Estimated Amount of Material: 0

Homogeneous Area Name:
Black/brown/white floor tile
Field Documents:
Sample Area : ACMVSA03
Homogeneous Area:
Photograph :

Homogeneous Area ID Number: M06

Estimated Amount of Material: 0

Homogeneous Area Name:
Acoustical ceiling tile, 2' x 4', serpentine
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :

Homogeneous Area ID Number: M07

Estimated Amount of Material: 0

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: M R Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E T E R M I N A T I O N O F
S A M P L I N G L O C A T I O N S

The Following Homogeneous Areas were Identified:

Homogeneous Area Name:
Acoustical ceiling tile, 1' x 1', even pattern
Homogeneous Area ID Number: M08
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :
Estimated Amount of Material: 0

Homogeneous Area Name:
Acoustical ceiling tile, 2' x 4', rough pattern
Homogeneous Area ID Number: M09
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :
Estimated Amount of Material: 0

Homogeneous Area Name:
Acoustical ceiling tile, 1' x 1', serpentine
Homogeneous Area ID Number: M10
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :
Estimated Amount of Material: 0

Homogeneous Area Name:
Gyp ceiling
Homogeneous Area ID Number: M11
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :
Estimated Amount of Material: 0

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: M B Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E T E R M I N A T I O N O F
S A M P L I N G L O C A T I O N S

The Following Homogeneous Areas were Identified:

Homogeneous Area Name:
Acoustical ceiling tile, 2' x 4', serpentine
Homogeneous Area ID Number: M30
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :
Estimated Amount of Material: 1,200 SF

Homogeneous Area Name:
Fire doors
Homogeneous Area ID Number: M99
Field Documents:
Sample Area :
Homogeneous Area: ACMVHA03 ACMVHA04 ACMVHA05
Photograph :
Estimated Amount of Material: ALL

Homogeneous Area Name:
Surfacing material
Homogeneous Area ID Number: S01
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :
Estimated Amount of Material: 0

Homogeneous Area Name:
Auditorium, spray on ceiling
Homogeneous Area ID Number: S02
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP03
Estimated Amount of Material: 5,000 SF

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

DOCUMENT C. 5

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

DETERMINATION OF SAMPLING LOCATIONS

The Following Homogeneous Areas were Identified:

Homogeneous Area Name:
Troweled on ceiling
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :

Homogeneous Area ID Number: S03

Estimated Amount of Material: 0

Homogeneous Area Name:
Troweled on ceiling
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP04

Homogeneous Area ID Number: S04

Estimated Amount of Material: 100 SF

Homogeneous Area Name:
Pipe elbow 4"
Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP05

Homogeneous Area ID Number: T01

Estimated Amount of Material: 20 EA

Homogeneous Area Name:
Pipe elbow 10"
Field Documents:
Sample Area : ACMVSA02
Homogeneous Area:
Photograph :

Homogeneous Area ID Number: T02

Estimated Amount of Material: 0

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MW Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

DETERMINATION OF SAMPLING LOCATIONS

The Following Homogeneous Areas were Identified:

Homogeneous Area Name:
Duct jacket
Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP06

Homogeneous Area ID Number: T03

Estimated Amount of Material: 10 LF

Homogeneous Area Name:
Gasket
Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP07

Homogeneous Area ID Number: T04

Estimated Amount of Material: 2 EA

Homogeneous Area Name:
Hot water insulation jacket
Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP08

Homogeneous Area ID Number: T05

Estimated Amount of Material: 1 EA

Homogeneous Area Name:
Pipe elbow 12"
Field Documents:
Sample Area : ACMVSA02
Homogeneous Area:
Photograph :

Homogeneous Area ID Number: T06

Estimated Amount of Material: 0

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MW Wigenton Date: 10/31/88
Agency: Tufts University

DOCUMENT C. 7

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E T E R M I N A T I O N O F
S A M P L I N G L O C A T I O N S

The Following Homogeneous Areas were Identified:

Homogeneous Area Name:
Boiler #2 insulation jacket
Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP09

Homogeneous Area ID Number: T08

Estimated Amount of Material: 1 EA

Homogeneous Area Name:
Pipe elbow 2"
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Homogeneous Area ID Number: T09

Estimated Amount of Material: 20 EA

Homogeneous Area Name:
Valve joint 4"
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Homogeneous Area ID Number: T11

Estimated Amount of Material: 2 EA

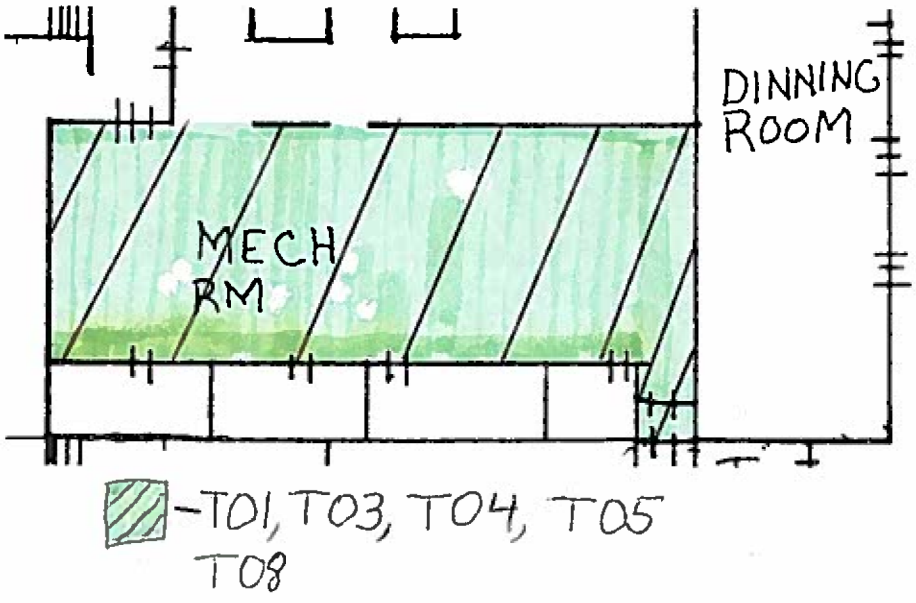
Homogeneous Area Name:
Boiler #1 insulation jacket
Field Documents:
Sample Area : ACMVSA02
Homogeneous Area:
Photograph :

Homogeneous Area ID Number: T12

Estimated Amount of Material: 0

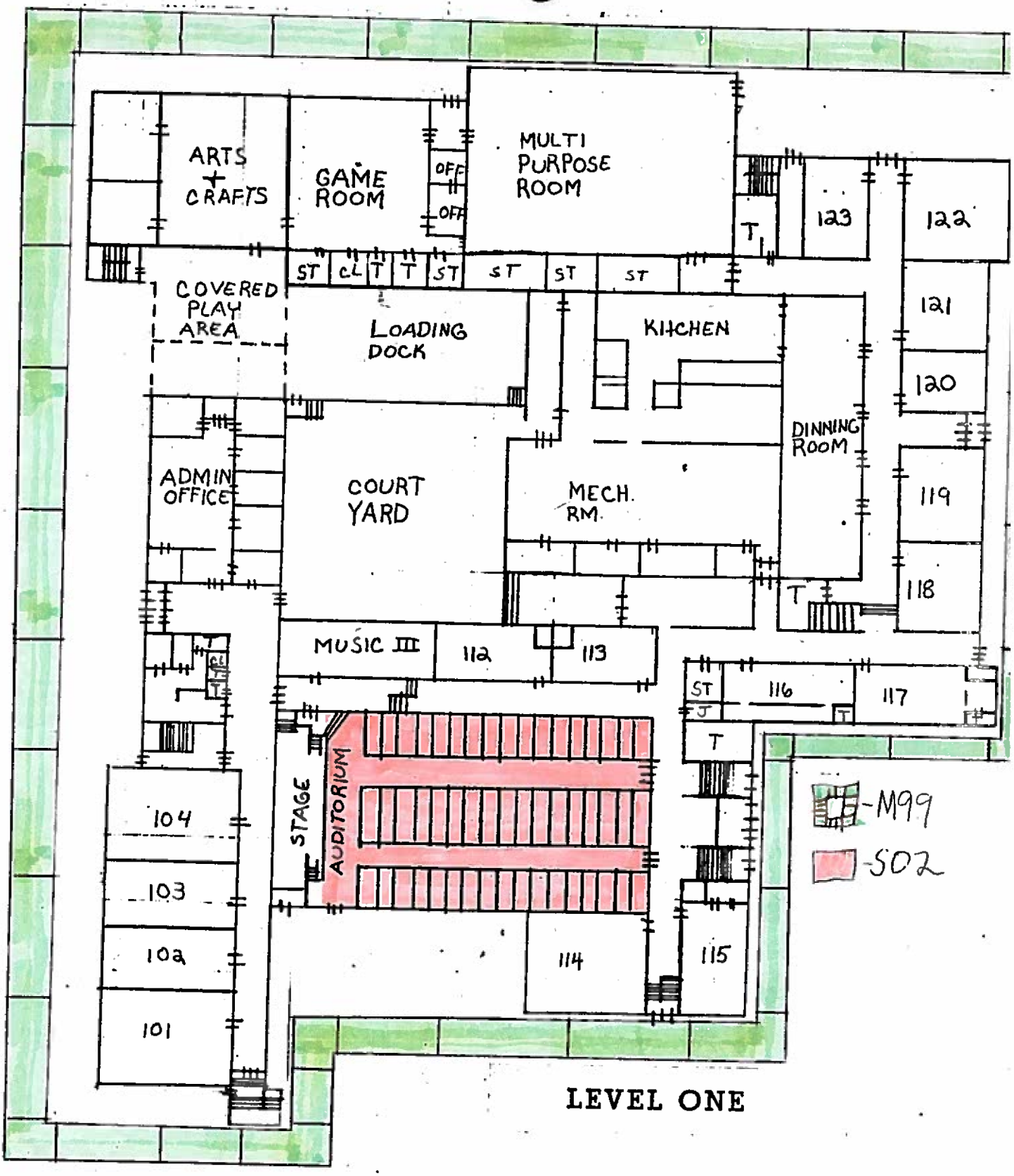
Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University



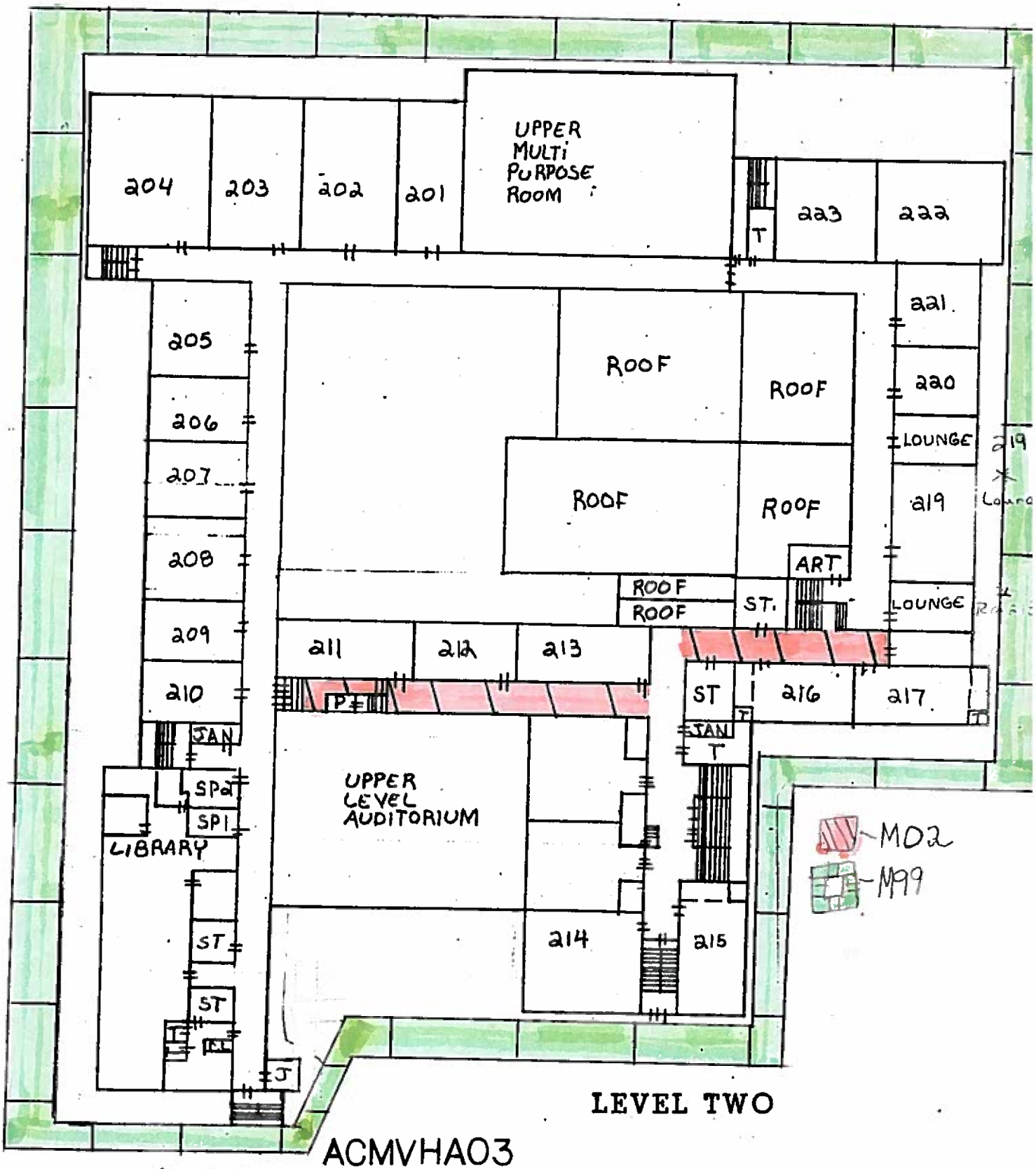
ACMVHA02

MOUNT VERNON ELEMENTARY SCHOOL



ACMVHA05

MOUNT VERNON ELEMENTARY SCHOOL

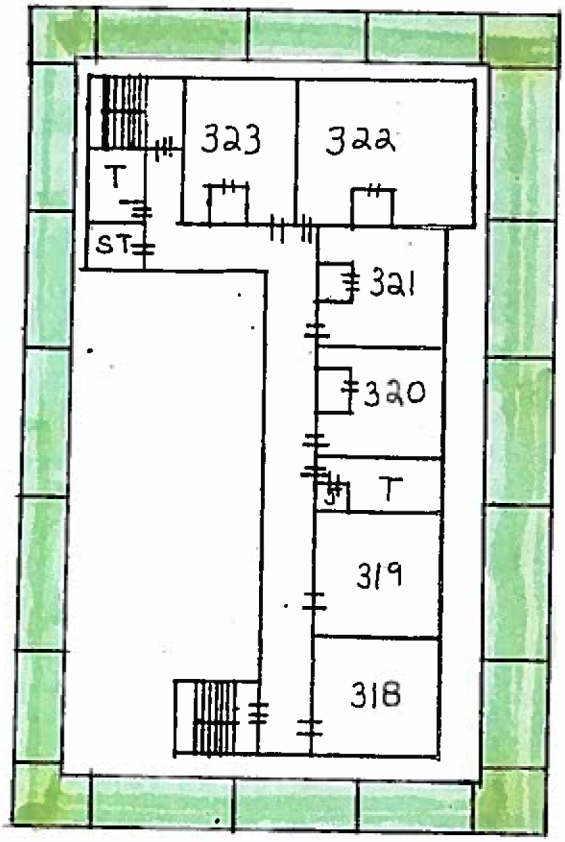


ACMVHA03

JB

MOUNT VERNON ELEMENTARY SCHOOL





LEVEL THREE

ACMVHA04

JB-

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E S C R I P T I O N O F
E A C H S A M P L E A R E A

DISCUSSION ON SELECTION OF SAMPLING LOCATIONS:

After applying standard sampling protocols for miscellaneous, thermal system, and surfacing materials as discussed below, specific sampling locations were chosen by the inspector, considering the following factors: ease in sampling; minimization of excessive or unnecessary damage; homogeneity with the suspect material; low visibility of the location. In certain cases the samples were taken from already damaged areas to document asbestos content of a specific friable and damaged material or for assessment of debris associated with such damage.

The following sections and pages of this DOCUMENT D will discuss the standard sampling protocols followed for each type (miscellaneous, thermal system, surfacing) of material within its designated homogeneous area and list sample locations, and related data corresponding to each homogeneous area. All sampling location diagrams follow this DOCUMENT D.

DISCUSSION ON SELECTION OF MISCELLANEOUS MATERIAL SAMPLES:

Miscellaneous materials include interior building material finishes on structural components, structural members or fixtures. Examples include, floor and ceiling tiles. Friable and non-friable miscellaneous materials are collected from each homogeneous area by an accredited and licensed inspector in a manner sufficient to determine the presence of ACM.

The following miscellaneous materials were sampled:

Homogeneous Area Name:
1' x 1' floor tile, gray

Homogeneous Area ID Number: M01

Field Documents:
Sample Area : ACMVSA01 ACMVSA04
Homogeneous Area: ACMVHA01 ACMVHA03
Photograph :

Estimated Amount of Material: 8,000 SF

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM01001	06/07/88	ACMVM01005
06/07/88	ACMVM01007	06/07/88	ACMVM01048
06/07/88	ACMVM01Q048		

Inspector: Mike Wigenton Signature: MW Wigenton Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E S C R I P T I O N O F
E A C H S A M P L E A R E A

The following miscellaneous materials were sampled:

Homogeneous Area Name:
Black/gray 9" x 9" floor tile

Homogeneous Area ID Number: M02

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP01

Estimated Amount of Material: 7,000 SF

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM02002	06/07/88	ACMVM02003
06/07/88	ACMVM02010		

Homogeneous Area Name:
Brown/red 9" x 9" floor tile, auditorium

Homogeneous Area ID Number: M03

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP02

Estimated Amount of Material: 4,450 SF

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM03004		

Homogeneous Area Name:
Light green, 1' x 1' floor tile

Homogeneous Area ID Number: M04

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Estimated Amount of Material: 6,000 SF

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM04006		

Inspector: Mike Wigenton Signature: [signature] Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

DESCRIPTION OF EACH SAMPLE AREA

The following miscellaneous materials were sampled:

Homogeneous Area Name:
Gyp wall

Homogeneous Area ID Number: M05

Field Documents:
Sample Area : ACMVSA03
Homogeneous Area:
Photograph :

Estimated Amount of Material: 0

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM05008		

Homogeneous Area Name:
Black/brown/white floor tile

Homogeneous Area ID Number: M06

Field Documents:
Sample Area : ACMVSA03
Homogeneous Area:
Photograph :

Estimated Amount of Material: 0

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM06009		

Homogeneous Area Name:
Acoustical ceiling tile, 2' x 4', serpentine

Homogeneous Area ID Number: M07

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :

Estimated Amount of Material: 0

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM07028	06/07/88	ACMVM07Q047

Inspector: Mike Wigenton Signature: M B Wigenton Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E S C R I P T I O N O F E A C H S A M P L E A R E A

The following miscellaneous materials were sampled:

Homogeneous Area Name:
Acoustical ceiling tile, 1' x 1', even pattern
Homogeneous Area ID Number: M08
Estimated Amount of Material: 0
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM08029		

Homogeneous Area Name:
Acoustical ceiling tile, 2' x 4', rough pattern
Homogeneous Area ID Number: M09
Estimated Amount of Material: 0
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM09032		

Homogeneous Area Name:
Acoustical ceiling tile, 1' x 1', serpentine
Homogeneous Area ID Number: M10
Estimated Amount of Material: 0
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM10034		

Inspector: Mike Wigenton Signature: M B Wigenton Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

DESCRIPTION OF EACH SAMPLE AREA

The following miscellaneous materials were sampled:

Homogeneous Area Name:
Gyp ceiling
Homogeneous Area ID Number: M11
Field Documents:
Estimated Amount of Material: 0
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM11039		

Homogeneous Area Name:
Acoustical ceiling tile, 2' x 4', serpentine
Homogeneous Area ID Number: M30
Field Documents:
Estimated Amount of Material: 1,200 SF
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVM30047		

Homogeneous Area Name:
Fire doors
Homogeneous Area ID Number: M99
Field Documents:
Estimated Amount of Material: ALL
Sample Area :
Homogeneous Area: ACMVHA03 ACMVHA04 ACMVHA05
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID

*** ASSUMED POSITIVE - NO SAMPLES COLLECTED ***

Inspector: Mike Wigenton Signature: MB Wigenton Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E S C R I P T I O N O F
E A C H S A M P L E A R E A

DISCUSSION ON SELECTION OF SURFACING MATERIAL SAMPLES:

The AFMA accredited inspector, collects, in a statistically random manner that is representative of the homogeneous area, bulk samples from each homogeneous area of friable surfacing material that is not assumed to be ACM. Three bulk samples are collected for homogeneous areas of 1000 sq/ft or less; 5 bulk samples are collected for homogeneous areas greater than 1000 sq/ft and less than 5000 sq/ft; At least 7 samples are collected for all areas greater than 5000 sq/ft.

The following surfacing materials were sampled:

Homogeneous Area Name:
Surfacing material

Homogeneous Area ID Number: S01

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :

Estimated Amount of Material: 0

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVS01030	06/07/88	ACMVS01033

Homogeneous Area Name:
Auditorium, spray on ceiling

Homogeneous Area ID Number: S02

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP03

Estimated Amount of Material: 5,000 SF

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVS02035	06/07/88	ACMVS02036
06/07/88	ACMVS02037	06/07/88	ACMVS02038

Inspector: Mike Wigenton Signature: MB Wigenton Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E S C R I P T I O N O F
E A C H S A M P L E A R E A

The following surfacing materials were sampled:

Homogeneous Area Name:
Troweled on ceiling

Homogeneous Area ID Number: S03

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:
Photograph :

Estimated Amount of Material: 0

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVS03040	06/07/88	ACMVS03041

Homogeneous Area Name:
Troweled on ceiling

Homogeneous Area ID Number: S04

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP04

Estimated Amount of Material: 100 SF

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVS04042	06/07/88	ACMVS04043
06/07/88	ACMVS04044	06/07/88	ACMVS04045

Inspector: Mike Wigenton Signature: MR Wigenton Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E S C R I P T I O N O F
E A C H S A M P L E A R E A

DISCUSSION ON SELECTION OF THERMAL SYSTEM SAMPLES:

AFMA's accredited inspector's collect, in a randomly distributed manner, at least three bulk samples from each homogeneous area of thermal system insulation that are not assumed to be ACM. At least one bulk sample for patched thermal system insulation is also collected (areas less than 6 linear or square feet). Inspectors also sample cemented or plaster type fittings such as tees, elbows, and valves. The number of these such samples depends on the inspectors needs to assess system ACM content.

The following thermal system materials were sampled:

Homogeneous Area Name:
Pipe elbow 4"

Homogeneous Area ID Number: T01

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP05

Estimated Amount of Material: 20 EA

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVT01011	06/07/88	ACMVT01012
06/07/88	ACMVT01013	06/07/88	ACMVT01021
06/07/88	ACMVT01Q011		

Homogeneous Area Name:
Pipe elbow 10"

Homogeneous Area ID Number: T02

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area:
Photograph :

Estimated Amount of Material: 0

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVT02014	06/07/88	ACMVT02015
06/07/88	ACMVT02016		

Inspector: Mike Wigenton Signature: MB Wigenton Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E S C R I P T I O N O F
E A C H S A M P L E A R E A

The following thermal system materials were sampled:

Homogeneous Area Name:
Duct jacket

Homogeneous Area ID Number: T03

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP06

Estimated Amount of Material: 10 LF

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVT03017	06/07/88	ACMVT03018

Homogeneous Area Name:
Gasket

Homogeneous Area ID Number: T04

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP07

Estimated Amount of Material: 2 EA

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVT04019		

Homogeneous Area Name:
Hot water insulation jacket

Homogeneous Area ID Number: T05

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP08

Estimated Amount of Material: 1 EA

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVT05020		

Inspector: Mike Wigenton Signature: MB Wigenton Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E S C R I P T I O N O F
E A C H S A M P L E A R E A

The following thermal system materials were sampled:

Homogeneous Area Name:
Pipe elbow 12"

Homogeneous Area ID Number: T06

Estimated Amount of Material: 0

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVT06022	06/07/88	ACMVT06023
06/07/88	ACMVT06024	06/07/88	ACMVT06025

Homogeneous Area Name:
Boiler #2 insulation jacket

Homogeneous Area ID Number: T08

Estimated Amount of Material: 1 EA

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP09

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVT08026		

Homogeneous Area Name:
Pipe elbow 2"

Homogeneous Area ID Number: T09

Estimated Amount of Material: 20 EA

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVT09031		

Inspector: Mike Wigenton Signature: MB Wigenton Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

D E S C R I P T I O N O F E A C H S A M P L E A R E A

The following thermal system materials were sampled:

Homogeneous Area Name:
Valve joint 4"

Homogeneous Area ID Number: T11

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Estimated Amount of Material: 2 EA

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVT11050		

Homogeneous Area Name:
Boiler #1 insulation jacket

Homogeneous Area ID Number: T12

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area:
Photograph :

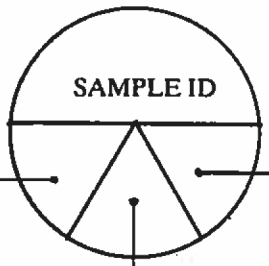
Estimated Amount of Material: 0

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
06/07/88	ACMVT12027	06/07/88	ACMVT12046
06/07/88	ACMVT12049		

Inspector: Mike Wigenton Signature: MW Wigenton Date: 10/31/88
Accreditation Number: 8802-02-063 Agency: Tufts University

SYMBOLS KEY



MATERIAL TYPES

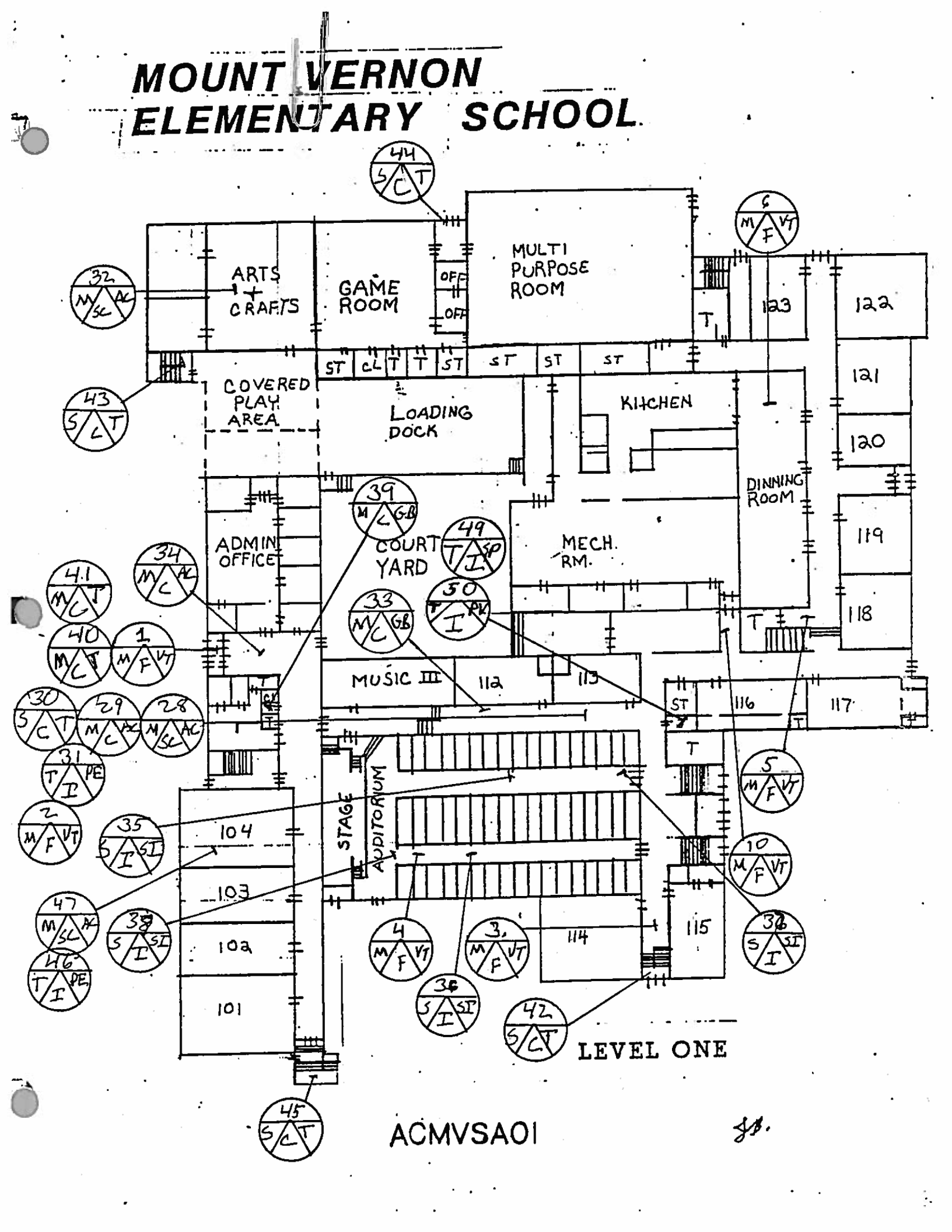
S	SURFACE
T	THERMAL
M	MISCELLANEOUS

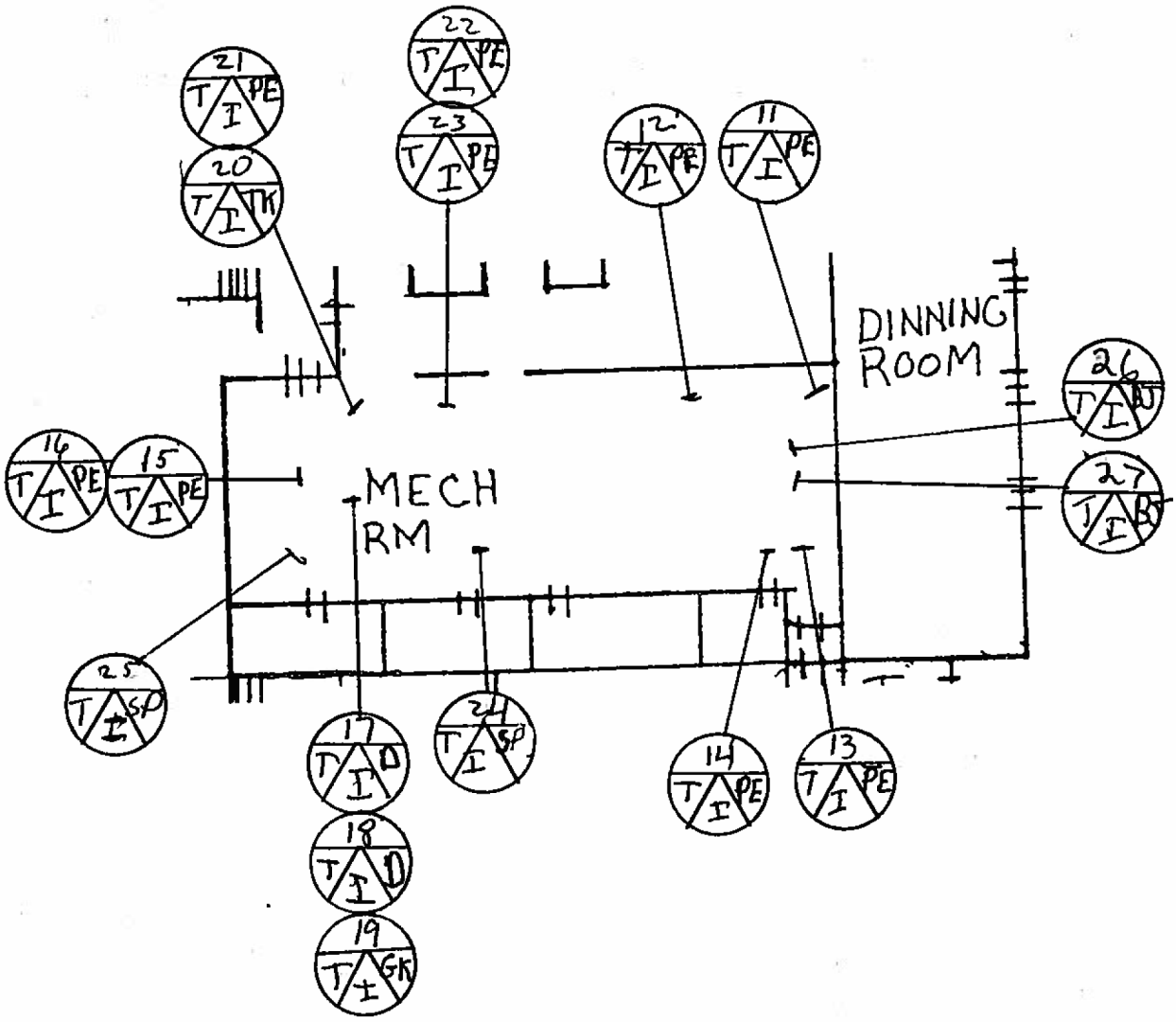
LOCATION CODES

C	CEILING
W	WALL
F	FLOOR
B	BASE
I	INSULATION
CP	CRAWL SPACE
SC	SUSPENDED CEILING
CF	CAFETERIA

FD	FIRE DOOR
R	ROPE
RD	ROOF DRAIN
EA	EARTH
DE	DEBRIS
SO	SPRAY ON PLASTER
T	TROWELED ON PLASTER
TX	TEXTURED PLASTER
PL	PLASTER WALL/CEILING
PB	PLASTER BOARD
PG	PEG BOARD
GB	GYPSUM BOARD/SHEET ROCK
VW	VINYL COVERING
PM	PATCHING MATERIAL
TW	TAR WRAP
CD	CLASSROOM DIVIDER
CN	FIRE CURTAIN
AC	ACOUSTICAL TILE
SI	SPRAY INSULATION ON STRUCTURAL MEMBERS
TK	TANK INSULATION
D	DUCT INSULATION
IR	INCINERATOR INSULATION
BI	BLOWN-IN INSULATION
GI	GENERAL INSULATION
FC	FLEX CONNECTORS
GK	GASKET
BJ	BOILER JACKET
HS	HANGING STRAP CRADLE
SK	STACK BREECHING/EXHAUST STACK
TB	TRANSITE BOARD
TP	TRANSITE PIPE
TD	TRANSITE DUCT
VT	VINYL TILE/COMPOSITION TILE
RS	RESILIENT SHEET
VB	VINYL BASE
CM	CONCRETE/MASONRY
SD	STAIR TREAD
GM	GLUE/MASTIC
SP	STRAIGHT PIPE
PE	PIPE ELBOW
PJ	PIPE JOINT
PV	PIPE VALVE
PH	PIPE HANGER
PW	PIPE WRAPPING

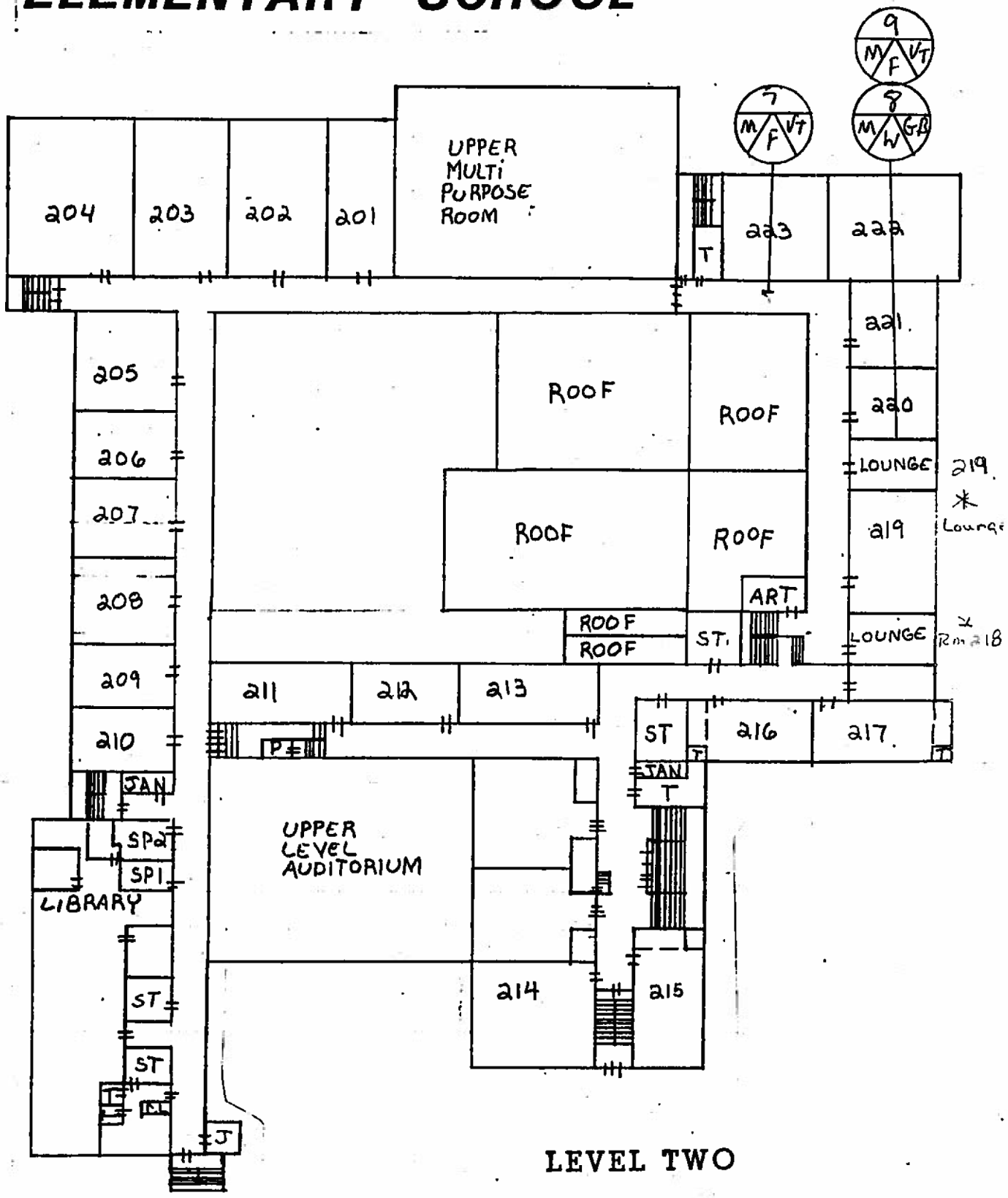
MOUNT VERNON ELEMENTARY SCHOOL




DINNING
ROOM
MECH
RM
21 T I PE
22 T I PE
23 T I PE
20 T I TK
12 T I PE
11 T I PE
16 T I PE
15 T I PE
26 T I DJ
27 T I BJ
25 T I SP
17 T I D
24 T I SP
18 T I D
19 T I GK
14 T I PE
13 T I PE

ACMVSA02

MOUNT VERNON ELEMENTARY SCHOOL

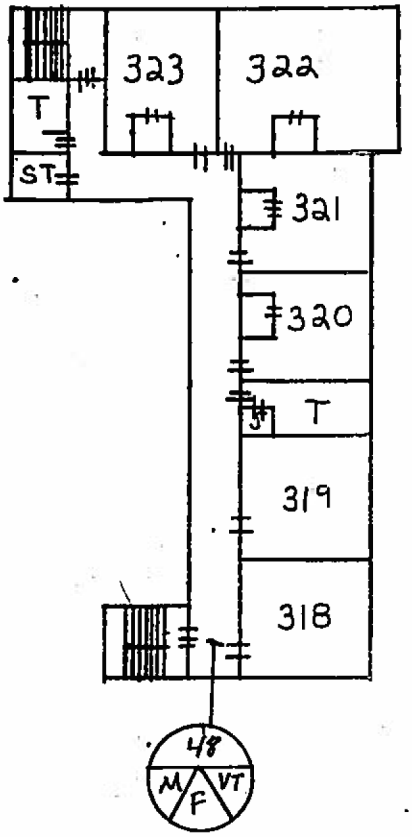


LEVEL TWO

ACMVSA03

JB

MOUNT VERNON ELEMENTARY SCHOOL



LEVEL THREE

ACMVSA04

JB-

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
1' x 1' floor tile, gray

Homogeneous Area ID Number : M01

Field Documents:
Sample Area : ACMVSA01 ACMVSA04
Homogeneous Area: ACMVHA01 ACMVHA03
Photograph :

Estimated Amount of Material: 8,000 SF

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Miscellaneous Material

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
There is no potential of accessing the asbestos fibers or causing their release by the normal traffic which transverses upon the tile.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within the floor tiles is not sufficient to cause the release of the asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The air movement across the floor tiles is not sufficient to cause damage to the floor tiles.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM01001	8088697-1530			AML	Tan, easily broken material
			TOTAL:	<1		
06/07/88	ACMVM01005	8088701-1530			AML	Tan, solid material
			TOTAL:	<1		
06/07/88	ACMVM01007	8088703-1530			AML	Brown, easily broken material
			TOTAL:	<1		
06/07/88	ACMVM01048	8088744-1530	Chrysotile	Tr. <1	AML	Brown, easily broken material
			TOTAL:	Tr. <1		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
1' x 1' floor tile, gray

Homogeneous Area ID Number : M01

Field Documents:

Estimated Amount of Material: 8,000 SF

Sample Area	:	ACMVSA01	ACMVSA04
Homogeneous Area	:	ACMVHA01	ACMVHA03
Photograph	:		

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM010048	03A	Chrysotile	01-02	BIO	
			TOTAL:	01-02		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Black/gray 9" x 9" floor tile

Homogeneous Area ID Number : M02

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP01

Estimated Amount of Material: 7,000 SF

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Miscellaneous Material

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
There is no potential of accessing the asbestos fibers or causing their release by the normal traffic which transverses upon the tile.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within the floor tiles is not sufficient to cause the release of the asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The air movement across the floor tiles is not sufficient to cause damage to the floor tiles.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM02002	8088698-1530			AML	Black, solid material
			TOTAL:	<1		
06/07/88	ACMVM02003	8088699-1530	Chrysotile	01-05	AML	Black, solid material
			TOTAL:	01-05		
06/07/88	ACMVM02010	8088706-1530	Chrysotile	05-10	AML	Black, solid material
			TOTAL:	05-10		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Brown/red 9" x 9" floor tile, auditorium

Homogeneous Area ID Number : M03

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP02

Estimated Amount of Material: 4,450 SF

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Miscellaneous Material

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
There is no potential of accessing the asbestos fibers or cuasing their release by the normal traffic which transverses upon the tile.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within the floor tiles is not sufficient to cause the release of the asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The air movement across the floor tiles is not sufficient to cause damage to the floor tiles.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM03004	8088700-1530	Chrysotile	05-10	AML	Brown, solid material
			TOTAL:	05-10		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: M B Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Light green, 1' x 1' floor tile

Homogeneous Area ID Number : M04

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Estimated Amount of Material: 6,000 SF

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Miscellaneous Material

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
There is no potential of accessing the asbestos fibers or causing their release by the normal traffic which transverses upon the tile.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within the floor tiles is not sufficient to cause the release of the asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The air movement across the floor tiles is not sufficient to cause damage to the floor tiles.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM04006	8088702-1530			AML	Green, easily broken material
			TOTAL:	<1		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: M B Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Acoustical ceiling tile, 2' x 4', serpentine

Homogeneous Area ID Number : M30

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Estimated Amount of Material: 1,200 SF

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Miscellaneous Material

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
The asbestos fibers are contained within the structure of the acoustical tile.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within the tiles is not sufficient to cause the release of asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The air movement across these asbestos containing tiles is not sufficient to cause damage.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM30047	8088743-1530	Chrysotile	05-10	AML	Beige, layered fibrous material
			TOTAL:	05-10		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MW Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Fire doors

Homogeneous Area ID Number : M99

Field Documents:
Sample Area :
Homogeneous Area: ACMVHA03 ACMVHA04 ACMVHA05
Photograph :

Estimated Amount of Material: ALL

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Miscellaneous Material

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
The integrity of the fire doors prevents access or contact with the asbestos fibers.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within the fire doors is not sufficient to cause the release of asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The air movement across the fire doors is not sufficient to cause damage.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory Comments

*** ASSUMED POSITIVE - NO ADDITIONAL SAMPLES COLLECTED ***

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Auditorium, spray on ceiling

Homogeneous Area ID Number : S02

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP03

Estimated Amount of Material: 5,000 SF

ASSESSMENT CATEGORY #: 2
SPECIFIC DESCRIPTION : Damaged, Friable Surfacing Material

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE
The asbestos containing spray on material has, in many areas, several pieces missing form its structure.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Medium.
The spray on material is normally inaccessible due to its height above the floor; however, contact can be made when an instrument (e.g. long stick, flag pole, etc.) is used.

POTENTIAL FOR VIBRATION DISTURBANCE - Medium.
The ceiling of the auditorium is bound to the floor of the second floor. The traffic on the second floor is sufficient to dislodge the asbestos fibers from the spray on material.

POTENTIAL FOR AIR EROSION/DISTURBANCE - Yes.
The heating and air conditioning unit's ducts are surrounded by the spray on material. There is a high potential for the asbestos fibers to be circulated within the auditorium due to the ducts proximity to the material

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVS02035	8088731-1530			AML	Tan, fluffy fibrous material
			TOTAL:	<1		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MW Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Auditorium, spray on ceiling

Homogeneous Area ID Number : S02

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP03

Estimated Amount of Material: 5,000 SF

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVS02036	8088732-1530	Chrysotile	15-20	AML	Tan, fluffy fibrous material
			TOTAL:	15-20		
06/07/88	ACMVS02037	8088733-1530	Chrysotile	05-10	AML	Tan, fluffy fibrous material
			TOTAL:	05-10		
06/07/88	ACMVS02038	8088734-1530	Chrysotile	01-05	AML	Tan, fluffy fibrous material
			TOTAL:	01-05		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Troweled on ceiling

Homogeneous Area ID Number : S04

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP04

Estimated Amount of Material: 100 SF

ASSESSMENT CATEGORY #: 2
SPECIFIC DESCRIPTION : Damaged, Friable Surfacing Material

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE
There are parts of this material missing from the area.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Medium.
The asbestos containing material can be accessed with an instrument (e.g. pole, stick, or any item which may be thrown by students) which can dislodge the asbestos fibers.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The normal vibration generated within this area is sufficient to cause the asbestos fibers to be released.

POTENTIAL FOR AIR EROSION/DISTURBANCE - Yes.
There is sufficient air movement across this asbestos containing material due to its location, constantly exposed to the outdoor environment.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVS04042	8088738-1530			AML	White, powdery material
			TOTAL:	<1		
06/07/88	ACMVS04043	8088739-1530			AML	White, powdery material
			TOTAL:	<1		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: M B Wigenton Date: 10/31/88
Agency: Tufts University

DOCUMENT F. 8.1

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Troweled on ceiling

Homogeneous Area ID Number : S04

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP04

Estimated Amount of Material: 100 SF

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVS04044	8088740-1530			AML	White, powdery material
			TOTAL:	<1		
06/07/88	ACMVS04045	8088741-1530	Chrysotile	05-10	AML	White, powdery material
			TOTAL:	05-10		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Pipe elbow 4"

Homogeneous Area ID Number : T01

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP05

Estimated Amount of Material: 20 EA

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
As long as the insulation is not damaged, there is no potential of the asbestos fibers becoming released.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within this room is not sufficient to damage the insulation which contains the asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The natural and/or mechanical ventilation in this room is not sufficient to cause the asbestos fibers to become released.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT01011	8088707-1530			AML	Off-white, soft fibrous material
			TOTAL:	<1		
06/07/88	ACMVT01012	8088708-1530	Chrysotile	20-25	AML	Tan, soft fibrous material
			TOTAL:	20-25		
06/07/88	ACMVT01013	8088709-1530			AML	Tan, soft, fibrous material
			TOTAL:	<1		
06/07/88	ACMVT01021	8088717-1530			AML	Tan, easily separated fibrous material
			TOTAL:	<1		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Pipe elbow 4"

Homogeneous Area ID Number : T01

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP05

Estimated Amount of Material: 20 EA

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT01Q011	01A	Chrysotile	01-02	BIO	
			Amosite	01-02	BIO	
			TOTAL:	01-04		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: [signature] Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Duct jacket

Homogeneous Area ID Number : T03

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP06

Estimated Amount of Material: 10 LF

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
As long as the insulation is not damaged, there is no potential of the asbestos fibers becoming released.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration genreated within this room is not sufficient to damage the insulation which contains the asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The natural and/or mechanical ventilation in this room is not sufficient to cause the asbestos fibers to become released.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT03017	8088713-1530	Chrysotile	30-35	AML	Off-white, fluffy fibrous material
			TOTAL:	30-35		
06/07/88	ACMVT03018	8088714-1530	Chrysotile	15-20	AML	Beige, fluffy fibrous material
			Amosite	25-30	AML	
			TOTAL:	45-50		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MW Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name: Gasket

Homogeneous Area ID Number : T04

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP07

Estimated Amount of Material: 2 EA

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
The gasket's fabric prevents the asbestos fibers from being released.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within the gasket is not sufficient to damage the gasket's integrity.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The air movement across the gasket is insufficient in damaging the gasket.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT04019	8088715-2530	Chrysotile	65-70	AML	Brown, woven fibrous material
			TOTAL:	65-70		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Hot water insulation jacket

Homogeneous Area ID Number : T05

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP08

Estimated Amount of Material: 1 EA

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
As long as the insulation is not damaged, there is no potential of the asbestos fibers becoming released.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within this room is not sufficient to damage the insulation which contains the asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The natural and/or mechanical ventilation in this room is not sufficient to cause the asbestos fibers to become released.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT05020	8088716-1530	Chrysotile	35-40	AML	White, fluffy fibrous material
			Amosite	15-20	AML	
			TOTAL:	55-60		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Boiler #2 insulation jacket

Homogeneous Area ID Number : T08

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP09

Estimated Amount of Material: 1 EA

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
As long as the insulation is not damaged, there is no potential of the asbestos fibers becoming released.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within this room is not sufficient to damage the insulation which contains the asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The natural and/or mechanical ventilation in this room is not sufficient to cause the asbestos fibers to become released.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT08026	8088722-1530	Chrysotile	20-25	AML	Brown, soft fibrous material
			Amosite	35-40	AML	
			TOTAL:	60-65		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: MB Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Pipe elbow 2"

Homogeneous Area ID Number : T09

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Estimated Amount of Material: 20 EA

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
As long as the insulation is not damaged, there is no potential of the asbestos fibers becoming released.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within this room is not sufficient to damage the insulation which contains the asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The natural and/or mechanical ventilation in this room is not sufficient to cause the asbestos fibers to become released.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT09031	8088727-1530	Amosite	05-10	AML	Beige, soft fibrous material
			TOTAL:	05-10		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: Mike Wigenton Date: 10/31/88
Agency: Tufts University

DOCUMENT F.15.0

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Valve joint 4"

Homogeneous Area ID Number : T11

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Estimated Amount of Material: 2 EA

ASSESSMENT CATEGORY #: 5
SPECIFIC DESCRIPTION : Non-Damaged, Non-Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
As long as the insulation is not damaged, there is no potential of the asbestos fibers becoming released.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
The vibration generated within this room is not sufficient to damage the insulation which contains the asbestos fibers.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
The natural and/or mechanical ventilation in this room is not sufficient to cause the asbestos fibers to become released.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT11050	8088746-1530	Chrysotile	15-20	AML	Beige, fluffy fibrous material
			TOTAL:	15-20		

Inspector: Mike Wigenton
Accreditation Number: 8802-02-063

Signature: M B Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
1' x 1' floor tile, gray

Homogeneous Area ID Number: M01

Field Documents:
Sample Area : ACMVSA01 ACMVSA04
Homogeneous Area: ACMVHA01 ACMVHA03

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM01001	8088697-1530			AML	Tan, easily broken material
			TOTAL:	<1		
06/07/88	ACMVM01005	8088701-1530			AML	Tan, solid material
			TOTAL:	<1		
06/07/88	ACMVM01007	8088703-1530			AML	Brown, easily broken material
			TOTAL:	<1		
06/07/88	ACMVM01048	8088744-1530	Chrysotile	Tr. <1	AML	Brown, easily broken material
			TOTAL:	Tr. <1		

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM01Q048	03A	Chrysotile	01-02	BIO	
			TOTAL:	01-02		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Black/gray 9" x 9" floor tile

Homogeneous Area ID Number: M02

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM02002	8088698-1530			AML	Black, solid material
			TOTAL:	<1		
06/07/88	ACMVM02003	8088699-1530	Chrysotile	01-05	AML	Black, solid material
			TOTAL:	01-05		
06/07/88	ACMVM02010	8088706-1530	Chrysotile	05-10	AML	Black, solid material
			TOTAL:	05-10		

Homogeneous Area Name:
Brown/red 9" x 9" floor tile, auditorium

Homogeneous Area ID Number: M03

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM03004	8088700-1530	Chrysotile	05-10	AML	Brown, solid material
			TOTAL:	05-10		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Light green, 1' x 1' floor tile

Homogeneous Area ID Number: M04

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM04006	8088702-1530			AML	Green, easily broken material
			TOTAL:	<1		

Homogeneous Area Name:
Gyp wall

Homogeneous Area ID Number: M05

Field Documents:
Sample Area : ACMVSA03
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM05008	8088704-1530			AML	Tan & white, semi-soft fibrous material
			TOTAL:	<1		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Black/brown/white floor tile

Homogeneous Area ID Number: M06

Field Documents:
Sample Area : ACMVSA03
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM06009	8088705-1530			AML	Black, easily broken material
			TOTAL:	<1		

Homogeneous Area Name:
Acoustical ceiling tile, 2' x 4', serpentine

Homogeneous Area ID Number: M07

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM07028	8088724-1530			AML	Pale, yellow, soft fibrous material
			TOTAL:	<1		

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM07Q047	02A			BIO	
			TOTAL:	NAFD		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: M08
Acoustical ceiling tile, 1' x 1', even pattern
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM08029	8088725-1530			AML	Orange, layered fibrous material
			TOTAL:	<1		

Homogeneous Area Name: Homogeneous Area ID Number: M09
Acoustical ceiling tile, 2' x 4', rough pattern
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM09032	8088728-1530			AML	Orange, layered fibrous material
			TOTAL:	<1		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: M10
Acoustical ceiling tile, 1' x 1', serpentine
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM10034	8088730-1530			AML	Beige, layered fibrous material
			TOTAL:	<1		

Homogeneous Area Name: Homogeneous Area ID Number: M11
Gyp ceiling
Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM11039	8088735-1530			AML	Off-white, soft fibrous material
			TOTAL:	<1		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name: Acoustical ceiling tile, 2' x 4', serpentine
Homogeneous Area ID Number: M30

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVM30047	8088743-1530	Chrysotile	05-10	AML	Beige, layered fibrous material
			TOTAL:	05-10		

Homogeneous Area Name: Surfacing material
Homogeneous Area ID Number: S01

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVS01030	8088726-1530			AML	Brown, soft fibrous material
			TOTAL:	<1		
06/07/88	ACMVS01033	8088729-1530			AML	Beige, easily crushed material
			TOTAL:	<1		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Auditorium, spray on ceiling

Homogeneous Area ID Number: S02

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVS02035	8088731-1530			AML	Tan, fluffy fibrous material
			TOTAL:	<1		
06/07/88	ACMVS02036	8088732-1530	Chrysotile	15-20	AML	Tan, fluffy fibrous material
			TOTAL:	15-20		
06/07/88	ACMVS02037	8088733-1530	Chrysotile	05-10	AML	Tan, fluffy fibrous material
			TOTAL:	05-10		
06/07/88	ACMVS02038	8088734-1530	Chrysotile	01-05	AML	Tan, fluffy fibrous material
			TOTAL:	01-05		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Troweled on ceiling

Homogeneous Area ID Number: S03

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVS03040	8088736-1530			AML	Off-white, powdery material
			TOTAL:	<1		
06/07/88	ACMVS03041	8088737-1530			AML	White, powdery material
			TOTAL:	<1		

Homogeneous Area Name:
Troweled on ceiling

Homogeneous Area ID Number: S04

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVS04042	8088738-1530			AML	White, powdery material
			TOTAL:	<1		
06/07/88	ACMVS04043	8088739-1530			AML	White, powdery material
			TOTAL:	<1		
06/07/88	ACMVS04044	8088740-1530			AML	White, powdery material
			TOTAL:	<1		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Troweled on ceiling

Homogeneous Area ID Number: S04

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVS04045	8088741-1530	Chrysotile	05-10	AML	White, powdery material
			TOTAL:	05-10		

Homogeneous Area Name:
Pipe elbow 4"

Homogeneous Area ID Number: T01

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT01011	8088707-1530			AML	Off-white, soft fibrous material
			TOTAL:	<1		
06/07/88	ACMVT01012	8088708-1530	Chrysotile	20-25	AML	Tan, soft fibrous material
			TOTAL:	20-25		
06/07/88	ACMVT01013	8088709-1530			AML	Tan, soft, fibrous material
			TOTAL:	<1		
06/07/88	ACMVT01021	8088717-1530			AML	Tan, easily separated fibrous material
			TOTAL:	<1		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Pipe elbow 4"

Homogeneous Area ID Number: T01

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT01Q011	01A	Chrysotile	01-02	BIO	
			Amosite	01-02	BIO	
			TOTAL:	01-04		

Homogeneous Area Name:
Pipe elbow 10"

Homogeneous Area ID Number: T02

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT02014	8088710-1530			AML	Tan, soft fibrous material
			TOTAL:	<1		
06/07/88	ACMVT02015	8088711-1530			AML	Tan, soft fibrous material
			TOTAL:	<1		
06/07/88	ACMVT02016	8088712-1530			AML	Tan, soft fibrous material
			TOTAL:	<1		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Duct jacket

Homogeneous Area ID Number: T03

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT03017	8088713-1530	Chrysotile	30-35	AML	Off-white, fluffy fibrous material
			TOTAL:	30-35		
06/07/88	ACMVT03018	8088714-1530	Chrysotile	15-20	AML	Beige, fluffy fibrous material
			Amosite	25-30	AML	
			TOTAL:	45-50		

Homogeneous Area Name:
Gasket

Homogeneous Area ID Number: T04

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT04019	8088715-2530	Chrysotile	65-70	AML	Brown, woven fibrous material
			TOTAL:	65-70		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Hot water insulation jacket

Homogeneous Area ID Number: T05

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT05020	8088716-1530	Chrysotile	35-40	AML	White, fluffy fibrous material
			Amosite	15-20	AML	
			TOTAL:	55-60		

Homogeneous Area Name:
Pipe elbow 12"

Homogeneous Area ID Number: T06

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT06022	8088718-1530			AML	Tan, soft fibrous material
			TOTAL:	<1		
06/07/88	ACMVT06023	8088719-1530			AML	Tan, soft fibrous material
			TOTAL:	<1		
06/07/88	ACMVT06024	8088720-1530			AML	Beige, woven fibrous material
			TOTAL:	<1		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Pipe elbow 12"

Homogeneous Area ID Number: T06

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT06025	8088721-1530			AML	Beige, soft fibrous material
			TOTAL:	<1		

Homogeneous Area Name:
Boiler #2 insulation jacket

Homogeneous Area ID Number: T08

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT08026	8088722-1530	Chrysotile	20-25	AML	Brown, soft fibrous material
			Amosite	35-40	AML	
			TOTAL:	60-65		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Pipe elbow 2"

Homogeneous Area ID Number: T09

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT09031	8088727-1530	Amosite	05-10	AML	Beige, soft fibrous material
			TOTAL:	05-10		

Homogeneous Area Name:
Valve joint 4"

Homogeneous Area ID Number: T11

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT11050	8088746-1530	Chrysotile	15-20	AML	Beige, fluffy fibrous material
			TOTAL:	15-20		

See Appendix 1 for Laboratory Information and Certification Statements.

Virginia Department of Education
Energy and Facilities Services

B U L K S A M P L E
A N A L Y S I S

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Analysis Method: PLM

Homogeneous Area Name:
Boiler #1 insulation jacket

Homogeneous Area ID Number: T12

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
06/07/88	ACMVT12027	8088723-1530			AML	Brown, fluffy fibrous material
			TOTAL:	<1		
06/07/88	ACMVT12046	8088742-1530			AML	Light brown, soft fibrous material
			TOTAL:	<1		
06/07/88	ACMVT12049	8088745-1530			AML	Brown, easily separated fibrous material
			TOTAL:	<1		

See Appendix 1 for Laboratory Information and Certification Statements.

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/26/88
REPORTED : 08/27/88
WORK ORDER: 2209

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088697	ACMVM01001	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3920		
	ACMV M01 001		
	GROSS DESCRIPTION:		
	TAN, EASILY BROKEN, MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	10-15	%
	CELLULOSE:	10-15	%
	NON-FIBROUS:	80-85	%
	UNSPECIFIED:	20-25	%
	MICA/VERMICULITE:	5-10	%
	QUARTZ:	35-40	%
	CALCITE:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/26/88
REPORTED : 08/27/88
WORK ORDER: 2209

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088698	ACMVM02002	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3921		
	ACMV M02 002		
	GROSS DESCRIPTION:		
	BLACK, SOLID, MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	20-25	%
	CELLULOSE:	20-25	%
	NON-FIBROUS:	70-75	%
	UNSPECIFIED:	15-20	%
	MICA/VERMICULITE:	5-10	%
	QUARTZ:	30-35	%
	GYPSUM:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/26/88
REPORTED : 08/27/88
WORK ORDER: 2209

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088699	ACMVM02003	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3922		
	ACMV M02 003		
	GROSS DESCRIPTION:		
	BLACK, SOLID, MATERIAL		
	TOTAL % ASBESTOS:	1-5	%
	CHRYSOTILE:	1-5	%
	FIBROUS NON-ASBEST:	5-10	%
	CELLULOSE:	5-10	%
	NON-FIBROUS:	80-85	%
	UNSPECIFIED:	35-40	%
	MICA/VERMICULITE:	5-10	%
	QUARTZ:	20-25	%
	GYPSUM:	5-10	%

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/26/88
REPORTED : 08/27/88
WORK ORDER: 2209

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088700	ACMVM03004	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3923		
	ACMV M03 004		
	GROSS DESCRIPTION:		
	BROWN, SOLID, MATERIAL		
	TOTAL % ASBESTOS:	5-10	%
	CHRYSOTILE:	5-10	%
	FIBROUS NON-ASBEST:	10-15	%
	CELLULOSE:	10-15	%
	NON-FIBROUS:	70-75	%
	UNSPECIFIED:	30-35	%
	QUARTZ:	25-30	%
	GYPSUM:	5-10	%

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/26/88
REPORTED : 08/27/88
WORK ORDER: 2209

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088701	ACMVM01005	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3924		
	ACMV M01 005		
	GROSS DESCRIPTION:		
	TAN, SOLID, MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	5-10	%
	CELLULOSE:	5-10	%
	NON-FIBROUS:	85-90	%
	UNSPECIFIED:	25-30	%
	QUARTZ:	35-40	%
	CALCITE:	15-20	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/26/88
REPORTED : 08/27/88
WORK ORDER: 2209

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088702	ACMVM04006	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3925		
	ACMV M04 006		
	GROSS DESCRIPTION:		
	GREEN, EASILY BROKEN, MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	15-20	%
	CELLULOSE:	15-20	%
	NON-FIBROUS:	75-80	%
	UNSPECIFIED:	25-30	%
	MICA/VERMICULITE:	5-10	%
	QUARTZ:	25-30	%
	GYPSUM:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/26/88
REPORTED : 08/27/88
WORK ORDER: 2209

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088703	ACMVM01007	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3926		
	ACMV M01 007		
	GROSS DESCRIPTION:		
	BROWN, EASILY BROKEN, MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	10-15	%
	CELLULOSE:	10-15	%
	NON-FIBROUS:	80-85	%
	UNSPECIFIED:	40-45	%
	MICA/VERMICULITE:	5-10	%
	QUARTZ:	15-20	%
	GYPSUM:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/26/88
REPORTED : 08/27/88
WORK ORDER: 2209

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088704	ACMVM05008	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3927		
	ACMV M05 008		
	GROSS DESCRIPTION:		
	TAN AND WHITE, SEMI-SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	25-30	%
	CELLULOSE:	25-30	%
	NON-FIBROUS:	65-70	%
	UNSPECIFIED:	15-20	%
	QUARTZ:	20-25	%
	GYPSUM:	20-25	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/26/88
REPORTED : 08/27/88
WORK ORDER: 2209

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088705	ACMVM06009	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3928		
	ACMV M06 009		
	GROSS DESCRIPTION:		
	BLACK, EASILY BROKEN, MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	5-10	%
	CELLULOSE:	5-10	%
	NON-FIBROUS:	85-90	%
	UNSPECIFIED:	35-40	%
	QUARTZ:	35-40	%
	CALCITE:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/26/88
REPORTED : 08/27/88
WORK ORDER: 2209

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088706	ACMVM02010	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3929		
	ACMV M02 010		
	GROSS DESCRIPTION:		
	BLACK, SOLID, MATERIAL		
	TOTAL % ASBESTOS:	5-10	%
	CHRYSOTILE:	5-10	%
	FIBROUS NON-ASBEST:	5-10	%
	CELLULOSE:	5-10	%
	NON-FIBROUS:	75-80	%
	UNSPECIFIED:	30-35	%
	QUARTZ:	30-35	%
	GYPSUM:	5-10	%
	ANALYST:	DANIELLE PEARSON	

Danielle Pearson

NOTATIONS

Analysis performed by trained asbestos analyst using polarized light microscopy with dispersion staining.

*** FINAL REPORT ***

FRED I. GRUNDER
TECHNICAL DIRECTOR, IND. HYGIENE
[P 5619]-[S 2278]

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2214

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088707	ACMVT01011	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3910		
	ACMVT01011		
	GROSS DESCRIPTION:		
	OFF-WHITE, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	60-65	%
	FIBROUS GLASS:	40-45	%
	SYNTHETIC:	15-20	%
	NON-FIBROUS:	30-35	%
	UNSPECIFIED:	20-25	%
	QUARTZ:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2214

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088708	ACMVT01012	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3911		
	ACMVT01012		
	GROSS DESCRIPTION:		
	TAN, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	20-25	%
	CHRYSOTILE:	20-25	%
	FIBROUS NON-ASBEST:	30-35	%
	FIBROUS GLASS:	15-20	%
	SYNTHETIC:	10-15	%
	NON-FIBROUS:	35-40	%
	UNSPECIFIED:	15-20	%
	QUARTZ:	5-10	%
	GYPSUM:	5-10	%

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2214

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
B088709	ACMVT01013	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3912		
	ACMVT01013		
	GROSS DESCRIPTION:		
	TAN, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	50-55	%
	FIBROUS GLASS:	30-35	%
	SYNTHETIC:	15-20	%
	NON-FIBROUS:	40-45	%
	UNSPECIFIED:	20-25	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2214

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088710	ACMVT02014	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3913		
	ACMVT02014		
	GROSS DESCRIPTION:		
	TAN, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	65-70	%
	FIBROUS GLASS:	35-40	%
	SYNTHETIC:	25-30	%
	NON-FIBROUS:	25-30	%
	UNSPECIFIED:	10-15	%
	GYPSUM:	10-15	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2214

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088711	ACMVT02015	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3914		
	ACMVT02015		
	GROSS DESCRIPTION:		
	TAN, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	65-70	%
	FIBROUS GLASS:	40-45	%
	SYNTHETIC:	20-25	%
	NON-FIBROUS:	25-30	%
	UNSPECIFIED:	1-5	%
	GYPSUM:	20-25	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2214

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088712	ACMVT02016	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3915		
	ACMVT02016		
	GROSS DESCRIPTION:		
	TAN, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	55-60	%
	FIBROUS GLASS:	35-40	%
	SYNTHETIC:	15-20	%
	NON-FIBROUS:	35-40	%
	UNSPECIFIED:	10-15	%
	GYPSUM:	20-25	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2214

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088713	ACMVT03017	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3916		
	ACMVT03017		
	GROSS DESCRIPTION:		
	OFF-WHITE, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	30-35	%
	CHRYSOTILE:	30-35	%
	FIBROUS NON-ASBEST:	5-10	%
	CELLULOSE:	5-10	%
	NON-FIBROUS:	50-55	%
	UNSPECIFIED:	15-20	%
	QUARTZ:	10-15	%
	GYPSUM:	15-20	%
8088714	ACMVT03018	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3917		
	ACMVT03018		
	GROSS DESCRIPTION:		
	BEIGE, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	45-50	%
	CHRYSOTILE:	15-20	%
	AMOSITE:	25-30	%
	FIBROUS NON-ASBEST:	5-10	%
	CELLULOSE:	5-10	%
	NON-FIBROUS:	35-40	%
	UNSPECIFIED:	10-15	%
	GYPSUM:	20-25	%

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2214

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088715	ACMVT04019	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3918		
	ACMVT04019		
	GROSS DESCRIPTION:		
	BROWN, WOVEN, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	65-70	%
	CHRYSOTILE:	65-70	%
	FIBROUS NON-ASBEST:	5-10	%
	SYNTHETIC:	5-10	%
	NON-FIBROUS:	15-20	%
	UNSPECIFIED:	5-10	%
	GYPSUM:	5-10	%
8088716	ACMVT05020	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3919		
	ACMVT05020		
	GROSS DESCRIPTION:		
	WHITE, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	55-60	%
	CHRYSOTILE:	35-40	%
	AMOSITE:	15-20	%
	NON-FIBROUS:	35-40	%
	UNSPECIFIED:	10-15	%
	GYPSUM:	20-25	%
	ANALYST:	DANIELLE PEARSON	

Danielle Pearson

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2214

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER	VALUE	UNITS

NOTATIONS

Analysis performed by trained asbestos analyst using polarized light microscopy with dispersion staining.

*** FINAL REPORT ***

FRED I. GRUNDER
TECHNICAL DIRECTOR, IND. HYGIENE
[P 5957]-[S 2387]

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2213

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088717	ACMVT01021	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3900		
	ACMVT01021		
	GROSS DESCRIPTION:		
	TAN, EASILY SEPARATED, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	65-70	%
	FIBROUS GLASS:	35-40	%
	SYNTHETIC:	25-30	%
	NON-FIBROUS:	25-30	%
	UNSPECIFIED:	5-10	%
	QUARTZ:	5-10	%
	GYPSUM:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2213

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088718	ACMVT06022	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3901		
	ACMVT06022		
	GROSS DESCRIPTION:		
	TAN, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	60-65	%
	FIBROUS GLASS:	35-40	%
	SYNTHETIC:	20-25	%
	NON-FIBROUS:	30-35	%
	UNSPECIFIED:	5-10	%
	QUARTZ:	5-10	%
	GYPSUM:	10-15	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2213

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088719	ACMVT06023	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3902		
	ACMVT06023		
	GROSS DESCRIPTION:		
	TAN, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	75-80	%
	FIBROUS GLASS:	35-40	%
	SYNTHETIC:	35-40	%
	NON-FIBROUS:	15-20	%
	UNSPECIFIED:	5-10	%
	GYPSUM:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2213

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
	MBW 6/7		
8088720	ACMVT07024	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3903		
	ACMVT07024		
	GROSS DESCRIPTION:		
	BEIGE, WOVEN, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	60-65	%
	FIBROUS GLASS:	20-25	%
	SYNTHETIC:	35-40	%
	NON-FIBROUS:	30-35	%
	UNSPECIFIED:	10-15	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2213

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
	6 MBW		
8088721	ACMVT07025	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3904		
	ACMVT07025		
	GROSS DESCRIPTION:		
	BEIGE, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	50-55	%
	CELLULOSE:	1-5	%
	FIBROUS GLASS:	45-50	%
	NON-FIBROUS:	40-45	%
	UNSPECIFIED:	20-25	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	
8088722	ACMVT08026	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3905		
	ACMVT08026		
	GROSS DESCRIPTION:		
	BROWN, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	60-65	%
	CHRYSOTILE:	20-25	%
	AMOSITE:	35-40	-
	NON-FIBROUS:	30-35	%
	UNSPECIFIED:	15-20	%
	GYPSUM:	10-15	%

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2213

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER	VALUE	UNITS
8088723	ACMVT12027	BULK SAMPLE
1530	ASBESTOS BULK ANALYSIS	
	SAMPLE DESCRIPTION	
	SITE OR LOCATION:	
	7346-3906	
	ACMVT08027	
	GROSS DESCRIPTION:	
	BROWN, FLUFFY, FIBROUS MATERIAL	
	TOTAL % ASBESTOS:	<1 %
	FIBROUS NON-ASBEST:	75-80 %
	CELLULOSE:	5-10 %
	FIBROUS GLASS:	65-70 %
	NON-FIBROUS:	15-20 %
	UNSPECIFIED:	5-10 %
	QUARTZ:	5-10 %
	NOTES:	No asbestiform minerals observed.

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2213

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088724	ACMVM07028	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3907		
	ACMVM07028		
	GROSS DESCRIPTION:		
	PALE YELLOW, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	50-55	%
	CELLULOSE:	1-5	%
	FIBROUS GLASS:	45-50	%
	NON-FIBROUS:	40-45	%
	UNSPECIFIED:	30-35	%
	QUARTZ:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2213

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088725	ACMVM08029	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3908		
	ACMVM08029		
	GROSS DESCRIPTION:		
	ORANGE, LAYERED, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	60-65	%
	CELLULOSE:	50-55	%
	FIBROUS GLASS:	5-10	%
	NON-FIBROUS:	30-35	%
	UNSPECIFIED:	25-30	%
	QUARTZ:	1-5	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

RECEIVED : 06/17/88
RELEASED : 08/28/88
REPORTED : 08/29/88
WORK ORDER: 2213

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088726	ACMVS01030	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3909		
	ACMVS01030		
	GROSS DESCRIPTION:		
	BROWN, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	1-5	%
	FIBROUS GLASS:	1-5	%
	NON-FIBROUS:	90-95	%
	UNSPECIFIED:	20-25	%
	QUARTZ:	35-40	%
	CALCITE:	10-15	%
	GYPSUM:	10-15	%
	NOTES:	No asbestiform minerals observed.	
	ANALYST:	DANIELLE PEARSON	

Danielle Pearson

NOTATIONS

Analysis performed by trained asbestos analyst using polarized light microscopy with dispersion staining.

*** FINAL REPORT ***

FRED I. GRUNDER
TECHNICAL DIRECTOR, IND. HYGIENE
[P 5957]-[S 2386]

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1 M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088727	ACMVT09031	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3890		
	ACMVT09031		
	GROSS DESCRIPTION:		
	BEIGE, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	5-10	%
	AMOSITE:	5-10	%
	FIBROUS NON-ASBEST:	45-50	%
	FIBROUS GLASS:	45-50	%
	NON-FIBROUS:	35-40	%
	UNSPECIFIED:	10-15	%
	QUARTZ:	5-10	%

15 90

gypsum
per Carol Sanford-AML
9/6/88

See Next Page for A "Corrected Report."
MB 3/

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 09/07/88
REPORTED : 09/08/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088727	ACMVT09031	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3890		
	ACMVT09031		
	GROSS DESCRIPTION:		
	BEIGE, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	5-10	%
	AMOSITE:	5-10	%
	FIBROUS NON-ASBEST:	45-50	%
	FIBROUS GLASS:	45-50	%
	NON-FIBROUS:	35-40	%
	UNSPECIFIED:	10-15	%
	QUARTZ:	5-10	%
	GYPSUM:	10-15	%
	NOTES:		
	THIS IS A CORRECTED REPORT		
	ANALYST:	Danielle Pearson	
	CORRECTED REPORT		

Danielle Pearson

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 09/07/88
REPORTED : 09/08/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088728	ACMVM09032	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3891		
	ACMVT09032		
	GROSS DESCRIPTION:		
	ORANGE, LAYERED, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	50-55	%
	CELLULOSE:	1-5	%
	FIBROUS GLASS:	45-50	%
	NON-FIBROUS:	40-45	%
	UNSPECIFIED:	30-35	%
	GYPSUM:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®

P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068

Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 09/07/88
REPORTED : 09/08/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088729	ACMVS01033	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3892		
	ACMVS01033		
	GROSS DESCRIPTION:		
	BEIGE, EASILY CRUSHED, MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	5-10	%
	CELLULOSE:	5-10	%
	NON-FIBROUS:	85-90	%
	UNSPECIFIED:	5-10	%
	QUARTZ:	40-45	%
	CALCITE:	10-15	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 09/07/88
REPORTED : 09/08/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088730	ACMVM10034	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3893		
	ACMVM10034		
	GROSS DESCRIPTION:		
	BEIGE, LAYERED, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	50-55	%
	CELLULOSE:	20-25	%
	FIBROUS GLASS:	25-30	%
	NON-FIBROUS:	40-45	%
	UNSPECIFIED:	15-20	%
	GYPSUM:	5-10	%
	PERLITE:	10-15	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 09/07/88
REPORTED : 09/08/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088731	ACMVS02035	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3894		
	ACMVS02035		
	GROSS DESCRIPTION:		
	TAN, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	20-25	%
	CELLULOSE:	20-25	%
	NON-FIBROUS:	70-75	%
	UNSPECIFIED:	30-35	%
	CALCITE:	15-20	%
	PERLITE:	15-20	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 09/07/88
REPORTED : 09/08/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088732	ACMVS02036	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3895		
	ACMVS02036		
	GROSS DESCRIPTION:		
	TAN, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	15-20	%
	CHRYSOTILE:	15-20	%
	FIBROUS NON-ASBEST:	25-30	%
	CELLULOSE:	25-30	%
	NON-FIBROUS:	45-50	%
	UNSPECIFIED:	10-15	%
	GYPSUM:	15-20	%
	PERLITE:	10-15	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

RECEIVED : 06/17/88
RELEASED : 09/07/88
REPORTED : 09/08/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088733	ACMVS02037	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3896		
	ACMVS02037		
	GROSS DESCRIPTION:		
	TAN, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	5-10	%
	CHRYSOTILE:	5-10	%
	FIBROUS NON-ASBEST:	25-30	%
	CELLULOSE:	25-30	%
	NON-FIBROUS:	55-60	%
	UNSPECIFIED:	15-20	%
	GYPSUM:	15-20	%
	PERLITE:	15-20	%
8088734	ACMVS02038	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3897		
	ACMVS02038		
	GROSS DESCRIPTION:		
	TAN, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	1-5	%
	CHRYSOTILE:	1-5	%
	FIBROUS NON-ASBEST:	35-40	%
	CELLULOSE:	35-40	%
	NON-FIBROUS:	50-55	%
	UNSPECIFIED:	10-15	%
	GYPSUM:	15-20	%
	PERLITE:	15-20	%

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 09/07/88
REPORTED : 09/08/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088735	ACMVM11039	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3898		
	ACMVM11039		
	GROSS DESCRIPTION:		
	OFF-WHITE, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	25-30	%
	CELLULOSE:	15-20	%
	FIBROUS GLASS:	5-10	%
	NON-FIBROUS:	65-70	%
	UNSPECIFIED:	30-35	%
	QUARTZ:	10-15	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	

ANALYST: Danielle Pearson

Danielle Pearson

NOTATIONS

Analysis performed by trained asbestos analyst using polarized light microscopy with dispersion staining

*** CORRECTED REPORT ***

FRED J. GRUNDER
TECHNICAL DIRECTOR, IND. HYGIENE
(P 3503-15 37201

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088728	ACMVM09032	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3891		
	ACMVT09032		
	GROSS DESCRIPTION:		
	ORANGE, LAYERED, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	50-55	%
	CELLULOSE:	1-5	%
	FIBROUS GLASS:	45-50	%
	NON-FIBROUS:	40-45	%
	UNSPECIFIED:	30-35	%
	GYPSUM:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088730	ACMVM10034	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3893		
	ACMVM10034		
	GROSS DESCRIPTION:		
	BEIGE, LAYERED, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	50-55	%
	CELLULOSE:	20-25	%
	FIBROUS GLASS:	25-30	%
	NON-FIBROUS:	40-45	%
	UNSPECIFIED:	15-20	%
	GYPSUM:	5-10	%
	PERLITE:	10-15	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088731	ACMVS02035	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3894		
	ACMVS02035		
	GROSS DESCRIPTION:		
	TAN, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	20-25	%
	CELLULOSE:	20-25	%
	NON-FIBROUS:	70-75	%
	UNSPECIFIED:	30-35	%
	CALCITE:	15-20	%
	PERLITE:	15-20	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088732	ACMVS02036	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3895		
	ACMVS02036		
	GROSS DESCRIPTION:		
	TAN, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	15-20	%
	CHRYSOTILE:	15-20	%
	FIBROUS NON-ASBEST:	25-30	%
	CELLULOSE:	25-30	%
	NON-FIBROUS:	45-50	%
	UNSPECIFIED:	10-15	%
	GYPSUM:	15-20	%
	PERLITE:	10-15	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088733	ACMVS02037	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3896		
	ACMVS02037		
	GROSS DESCRIPTION:		
	TAN, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	5-10	%
	CHRYSOTILE:	5-10	%
	FIBROUS NON-ASBEST:	25-30	%
	CELLULOSE:	25-30	%
	NON-FIBROUS:	55-60	%
	UNSPECIFIED:	15-20	%
	GYPSUM:	15-20	%
	PERLITE:	15-20	%
8088734	ACMVS02038	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3897		
	ACMVS02038		
	GROSS DESCRIPTION:		
	TAN, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	1-5	%
	CHRYSOTILE:	1-5	%
	FIBROUS NON-ASBEST:	35-40	%
	CELLULOSE:	35-40	%
	NON-FIBROUS:	50-55	%
	UNSPECIFIED:	10-15	%
	GYPSUM:	15-20	%
	PERLITE:	15-20	%

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®

P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068

Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088735	ACMVM11039	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3698		
	ACMVM11039		
	GROSS DESCRIPTION:		
	OFF-WHITE, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	25-30	%
	CELLULOSE:	15-20	%
	FIBROUS GLASS:	5-10	%
	NON-FIBROUS:	65-70	%
	UNSPECIFIED:	30-35	%
	QUARTZ:	10-15	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

 M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2212

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088736	ACMVS03040	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3899		
	ACMVS03040		
	GROSS DESCRIPTION:		
	OFF-WHITE, POWDERY,	MATERIAL	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	1-5	%
	CELLULOSE:	1-5	%
	NON-FIBROUS:	90-95	%
	UNSPECIFIED:	20-25	%
	QUARTZ:	30-35	%
	CALCITE:	10-15	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	
	ANALYST:	DANIELLE PEARSON	

Danielle Pearson

NOTATIONS

Analysis performed by trained asbestos analyst using polarized light microscopy with dispersion staining.

*** FINAL REPORT ***

FRED I. GRUNDER
TECHNICAL DIRECTOR, IND. HYGIENE
[P 63631-[S 2562]

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®

P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068

Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2211

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088737	ACMV803041	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3880		
	ACMV803041		
	GROSS DESCRIPTION:		
	WHITE, POWDERY, MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	NON-FIBROUS:	95-100	%
	UNSPECIFIED:	15-20	%
	QUARTZ:	30-35	%
	CALCITE:	15-20	%
	GYPSUM:	10-15	%
	PERLITE:	5-10	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2211

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088739	ACMVS04043	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3882		
	ACMVS04043		
	GROSS DESCRIPTION:		
	WHITE, POWDERY, MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	1-5	%
	CELLULOSE:	1-5	%
	NON-FIBROUS:	90-95	%
	UNSPECIFIED:	20-25	%
	QUARTZ:	25-30	%
	CALCITE:	15-20	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2211

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
8088740	ACMVS04044	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3883		
	ACMVS04044		
	GROSS DESCRIPTION:		
	WHITE, POWDERY, MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	1-5	%
	CELLULOSE:	1-5	%
	NON-FIBROUS:	90-95	%
	UNSPECIFIED:	20-25	%
	QUARTZ:	15-20	%
	CALCITE:	25-30	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	
8088741	ACMVS04045	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3884		
	ACMVS04045		
	GROSS DESCRIPTION:		
	WHITE, POWDERY, MATERIAL		
	TOTAL % ASBESTOS:	5-10	%
	CHRYSOTILE:	5-10	%
	NON-FIBROUS:	85-90	%
	UNSPECIFIED:	20-25	%
	QUARTZ:	35-40	%
	CALCITE:	20-25	%

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®

P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068

Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2211

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
	MB3Y 12		
8088742	ACMVT09046	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3885		
	ACMVT09046		
	GROSS DESCRIPTION:		
	LIGHT BROWN, SOFT, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	35-40	%
	CELLULOSE:	1-5	%
	FIBROUS GLASS:	30-35	%
	NON-FIBROUS:	55-60	%
	UNSPECIFIED:	25-30	%
	CALCITE:	5-10	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: 2211

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER		VALUE	UNITS
		MBH	
8088745	ACMVT12049	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3888		
	ACMVT10049		
	GROSS DESCRIPTION:		
	BROWN, EASILY SEPARATED, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	45-50	%
	CELLULOSE:	45-50	%
	NON-FIBROUS:	45-50	%
	UNSPECIFIED:	30-35	%
	GYPSUM:	10-15	%
	NOTES:	No asbestiform minerals observed.	
8088746	ACMVT11050	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-3889		
	ACMVT11050		
	GROSS DESCRIPTION:		
	BEIGE, FLUFFY, FIBROUS MATERIAL		
	TOTAL % ASBESTOS:	15-20	%
	CHRYSOTILE:	15-20	%
	FIBROUS NON-ASBEST:	55-60	%
	CELLULOSE:	15-20	%
	FIBROUS GLASS:	35-40	%
	NON-FIBROUS:	15-20	%
	UNSPECIFIED:	15-20	%
	ANALYST:	DANIELLE PEARSON	

Danielle Pearson

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

AMERICAN MEDICAL LABORATORIES, INC.®
P.O. Box 188 • 11091 Main Street
Fairfax, Virginia 22030-0188
Telephone: (703) 691-9120
Toll free number: (800) 336-3718 / In Virginia call (800) 572-2068
Age and sex dependent normal values are printed when available
if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

M

RECEIVED : 06/17/88
RELEASED : 08/29/88
REPORTED : 08/30/88
WORK ORDER: ZZ11

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
ZZ101

PROJECT NAME/JOB ID: ALEXANDRIA CITY

AML NUMBER----------VALUE-----UNITS----------

NOTATIONS

Analysis performed by trained asbestos analyst using polarized light microscopy with dispersion staining.

*** FINAL REPORT ***

FRED I. GRUNDER
TECHNICAL DIRECTOR, IND. HYGIENE
[P 6363]-[S 2561]

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

BIOSPHERICS INC REPORT

Work Order # 88-06-245

Received: 06/14/88

Results by Sample

mw

SAMPLE ID ~~ACMVQC011~~ ACMVT01Q011 FRACTION 01A TEST CODE ASBULK NAME BULK ASBESTOS ANALYSIS

Date & Time Collected not specified Category BULK

R. Sander

DATE ANALYZED 07/13/88 ANALYST SANDER VERIFIED BY KMD

ASBESTOS	RESULT
% Chrysotile	1-2%
% Amosite	1-2%
% Crocidolite	
% Tremolite	

NON-ASBESTOS	RESULT
CELLULOSE FIBER	5-10%
FIBROUS GLASS	30-35%
NANF	50-55%

Definitions of Reporting Terms.

NAD = No Asbestos Detected. * = Presence Noted.

NANF = Non-asbestos Non-fibrous.

Trace = Trace Amounts Noted; less than 1%

Sample Information:

SAMPLE COLLECTED BY RENEE E. WASHINGTON

mw

SAMPLE ID ~~ACMVQC047~~ ACMVM09Q047 FRACTION 02A TEST CODE ASBULK NAME BULK ASBESTOS ANALYSIS

Date & Time Collected not specified Category BULK

R. Sander

DATE ANALYZED 07/13/88 ANALYST SANDER VERIFIED BY KMD

ASBESTOS	RESULT
% Chrysotile	NAD
% Amosite	
% Crocidolite	
% Tremolite	

NON-ASBESTOS	RESULT
CELLULOSE FIBER	35-40%
FIBROUS GLASS	35-40%
NANF	15-20%

Definitions of Reporting Terms.

NAD = No Asbestos Detected. * = Presence Noted.

NANF = Non-asbestos Non-fibrous.

Trace = Trace Amounts Noted; less than 1%

Sample Information:

SAMPLE COLLECTED BY RENEE E. WASHINGTON

BIOSPHERICS INC REPORT
Work Order # 88-06-245
Received: 06/14/88
Results by Sample

SAMPLE ID ~~ACMVQC048~~ ACMVM01Q048 (mw)
FRACTION 03A TEST CODE ASBULK NAME BULK ASBESTOS ANALYSIS
Date & Time Collected not specified Category BULK

DATE ANALYZED 07/13/88 ANALYST SANDER VERIFIED BY KMD

ASBESTOS	RESULT
% Chrysotile	1-2%
% Amosite	
% Crocidolite	
% Tremolite	

NON-ASBESTOS	RESULT
CELLULOSE FIBER	TRACE
NANF	98+%

Definitions of Reporting Terms.
NAD = No Asbestos Detected. * = Presence Noted.
NANF = Non-asbestos Non-fibrous.
Trace = Trace Amounts Noted: less than 1%
Sample Information:
SAMPLE COLLECTED BY RENEE E. WASHINGTON

AHERA MANAGEMENT PLAN
BUILDING MT. VERNON

ALEXANDRIA CITY PUBLIC SCHOOLS
POSITIVE SAMPLING SUMMARY

MATERIAL DESCRIPTION		TOTAL AMOUNT	MATERIAL LOCATION	HAZARD POTENTIAL	CONDITION	% ASBESTOS	ESTIMATED COST REMOVE	ESTIMATED COST REPLACE	STATUS
12"X 12" GRAY FLOOR TILE	M01	8000 SF	MAIN ENTRANCE LOBBY & HALLWAY	LOW	NON-FRIABLE	2	8		5 MONITOR
9"X9" BL/GRAY FLOOR TILE	M02	7,200 SF	HALLWAYS @ 111-117 & RMS 211 - 217	LOW	NON-FRIABLE	10	8		5
9"X9" BROWN/RED FLOOR TILE ✓	M03	4,450 SF	AUDITRIUM	LOW	NON-FRIABLE	5-10	8		5
12"X12" GREEN FLOOR TILE ✓	M04	6,060 SF	CAFETERIA	LOW	NON-FRIABLE	1	8		5
2'X4' CEILING TILE	M30	1,200 SF	HALLWAY AT ROOM 101 - 104	LOW	NON-FRIABLE	5-10	$19,500 8	$4,500	5
FIRE DOORS	M99	ALL	HALLWAYS	LOW	NON FRIABLE	?	8		5 MONITOR
SPRAY-ON CEILING ✓	S02	5,000 SF	AUDITRIUM	MEDIUM	NON FRIABLE	15-20	$98,400 2	$16,900	2 ENCAP
TROWEL-ON CEILING	S04	100 SF	STAIR TOWERS & VESTIBULE	MEDIUM	NON FRIABLE	5-10	$8,800 2	$340	2 ENCAP
4" PIPE ELBOW ✓	T01	20 EACH	BOILER ROOM	LOW	NON-FRIABLE	20-25	$9,800 8	$100	8 MONITOR
DUCT JACKET ✓	T03	10 LF	BOILER ROOM	LOW	NON-FRIABLE	45-50	$8,300 8	$250	8
GASKET ✓	T04	2 EACH	BOILER RM	LOW	NON-FRIABLE	65-70	8		8
HOT WATER INSULATION JACKET ✓	T05	1 EA	BOILER RM	LOW	NON-FRIABLE	55-60	$12,500 8	$1,100	7
BOILER #2 INSULATION JACKET ✓	T08	1 EA.	BOILER RM	LOW	NON-FRIABLE	60-65	$13,200 8	$1800	7
2" PIPE ELBOW	T09	20 EA.	HALLWAY AT RM #111-117	LOW	NON-FRIABLE	5-10	$ 9,800 8	$ 100	8
4" VALVE JOINT ✓	T11	2 EA.	JAN. CLOSET	LOW	NON-FRIABLE	15-20	$2 400 8	$ 100	8 MONITOR
							182.700	24.965	207,665

Virginia Department of Education
Energy and Facilities Services

RESPONSE ACTIONS RECOMMENDED

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
1' x 1' floor tile, gray

Homogeneous Area ID Number : M01

Estimated Amount of Material: 8,000 SF
LEA Response Action Priority: 8

Field Documents:

Sample Area	ACMVSA01	ACMVSA04
Homogeneous Area	ACMVHA01	ACMVHA03
Photograph		

RECOMMENDED RESPONSE ACTION:
1) Include this material in all O&M activities.
2) Reinspect and reassess within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: Upon Removal

PREVENTIVE MEASURES:
See DOCUMENT I. 2 for O&M recommendations.

Management Planner: Mike Wigenton
Accreditation Number: 8802-02-127

Signature: M B Wigenton Date: 10/31/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Black/gray 9" x 9" floor tile

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP01

Homogeneous Area ID Number : M02

Estimated Amount of Material: 7,000 SF
LEA Response Action Priority: 8

RECOMMENDED RESPONSE ACTION:
1) Include this material in all O&M activities.
2) Reinspect and reassess within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: Upon Removal

PREVENTIVE MEASURES:
See DOCUMENT I. 3 for O&M recommendations.

Management Planner: Mike Wigenton Signature: M B Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Brown/red 9" x 9" floor tile, auditorium

Homogeneous Area ID Number : M03
Estimated Amount of Material: 4,450 SF
LEA Response Action Priority: 8

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP02

RECOMMENDED RESPONSE ACTION:
1) Include this material in all O&M activities.
2) Reinspect and reassess within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: Upon Removal

PREVENTIVE MEASURES:
See DOCUMENT I. 4 for O&M recommendations.

Management Planner: Mike Wigenton Signature: M B Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Light green, 1' x 1' floor tile

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

Homogeneous Area ID Number : M04

Estimated Amount of Material: 6,000 SF
LEA Response Action Priority: 8

RECOMMENDED RESPONSE ACTION:
1) Include this material in all O&M activities.
2) Reinspect and reassess within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: Upon Removal

PREVENTIVE MEASURES:
See DOCUMENT I. 5 for O&M recommendations.

Management Planner: Mike Wigenton Signature: MB Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Acoustical ceiling tile, 2' x 4', serpentine

Homogeneous Area ID Number : M30
Estimated Amount of Material: 1,200 SF
LEA Response Action Priority: 8

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_____
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept_____ Reject_____
1) Include this area in all O&M activities.
2) Refer to DOCUMENT L.1 Perodic Surveillance Plan.
3) Reinspect and reassess this area within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $19,425.96
Replacement Cost : $4,416.00

PREVENTIVE MEASURES:
See DOCUMENT I. 6 for O&M recommendations.

Management Planner: Mike Wigenton Signature: MB Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Fire doors

Homogeneous Area ID Number : M99

Estimated Amount of Material: ALL
LEA Response Action Priority: 8

Field Documents:
Sample Area :
Homogeneous Area: ACMVHA03 ACMVHA04 ACMVHA05
Photograph :

RECOMMENDED RESPONSE ACTION:
1) Include this material in all O&M activities.
2) Reinspect and reassess within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: Upon Removal

PREVENTIVE MEASURES:
See DOCUMENT I. 7 for O&M recommendations.

Management Planner: Mike Wigenton Signature: MB Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Auditorium, spray on ceiling

Homogeneous Area ID Number : S02

Estimated Amount of Material: 5,000 SF
LEA Response Action Priority: 2

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP03

PIH NOTICE: This area has been identified as containing a potential immediate hazard to human health. Please refer to the PIH notice received by the LEA AHERA designee for details.

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_____
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION #1: Accept_____ Reject_____
1) Encapsulate the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION #2: Accept_____ Reject_____
1) Enclose the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $98,399.00
Replacement Cost : $16,900.00

PREVENTIVE MEASURES:
See DOCUMENT I. 8 for O&M recommendations.

Management Planner: Mike Wigenton Signature: M Bo Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Troweled on ceiling

Homogeneous Area ID Number : S04

Estimated Amount of Material: 100 SF
LEA Response Action Priority: 2

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph : ACMVP04

PIH NOTICE: This area has been identified as containing a potential immediate hazard to human health. Please refer to the PIH notice received by the LEA AHERA designee for details.

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_____
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION #1: Accept_____ Reject_____
1) Encapsulate the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION #2: Accept_____ Reject_____
1) Enclose the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $8,759.45
Replacement Cost : $338.00

PREVENTIVE MEASURES:
See DOCUMENT I. 9 for O&M recommendations.

Management Planner: Mike Wigenton Signature: MB Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Pipe elbow 4"

Homogeneous Area ID Number : T01

Estimated Amount of Material: 20 EA

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP05

LEA Response Action Priority: 8

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_____
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept_____ Reject_____
1) Include this area in all O&M activities.
2) Refer to DOCUMENT L.1 Perodic Surveillance Plan.
3) Reinspect and reassess this area within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $9,748.50
Replacement Cost : $26.00

PREVENTIVE MEASURES:
See DOCUMENT I.10 for O&M recommendations.

Management Planner: Mike Wigenton Signature: M B Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Duct jacket

Homogeneous Area ID Number : T03

Estimated Amount of Material: 10 LF

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP06

LEA Response Action Priority: 8

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_____
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept_____ Reject_____
1) Include this area in all O&M activities.
2) Refer to DOCUMENT L.1 Perodic Surveillance Plan.
3) Reinspect and reassess this area within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $8,228.75
Replacement Cost : $250.80

PREVENTIVE MEASURES:
See DOCUMENT I.11 for O&M recommendations.

Management Planner: Mike Wigenton Signature: MB Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Gasket

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP07

Homogeneous Area ID Number : T04

Estimated Amount of Material: 2 EA
LEA Response Action Priority: 8

RECOMMENDED RESPONSE ACTION:
1) Include this material in all O&M activities.
2) Reinspect and reassess within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992
PREVENTIVE MEASURES:
See DOCUMENT I.12 for O&M recommendations.

Management Planner: Mike Wigenton Signature: MB Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

R E S P O N S E A C T I O N S
R E C O M M E N D E D

Homogeneous Area Name:
Hot water insulation jacket

Homogeneous Area ID Number : T05

Estimated Amount of Material: 1 EA
LEA Response Action Priority: 8

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP08

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_____
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept_____ Reject_____
1) Include this area in all O&M activities.
2) Refer to DOCUMENT L.1 Perodic Surveillance Plan.
3) Reinspect and reassess this area within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $12,485.00
Replacement Cost : $1,084.00

PREVENTIVE MEASURES:
See DOCUMENT I.13 for O&M recommendations.

removed
O Fuel

Management Planner: Mike Wigenton Signature: M B Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Boiler #2 insulation jacket

Homogeneous Area ID Number : T08

Estimated Amount of Material: 1 EA
LEA Response Action Priority: 8

Field Documents:
Sample Area : ACMVSA02
Homogeneous Area: ACMVHA02
Photograph : ACMVP09

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_____
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept_____ Reject_____
1) Include this area in all O&M activities.
2) Refer to DOCUMENT L.1 Perodic Surveillance Plan.
3) Reinspect and reassess this area within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $13,201.00
Replacement Cost : $1,804.00

PREVENTIVE MEASURES:
See DOCUMENT I.14 for O&M recommendations.

Management Planner: Mike Wigenton Signature: MB Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Pipe elbow 2"

Homogeneous Area ID Number : T09

Estimated Amount of Material: 20 EA
LEA Response Action Priority: 8

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_____
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept_____ Reject_____
1) Include this area in all O&M activities.
2) Refer to DOCUMENT L.1 Perodic Surveillance Plan.
3) Reinspect and reassess this area within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $9,748.50
Replacement Cost : $26.00

PREVENTIVE MEASURES:
See DOCUMENT I.15 for O&M recommendations.

Management Planner: Mike Wigenton Signature: MW Bogenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

R E S P O N S E A C T I O N S
R E C O M M E N D E D

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: Mount Vernon School
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Valve joint 4"

Homogeneous Area ID Number : T11

Estimated Amount of Material: 2 EA
LEA Response Action Priority: 8

Field Documents:
Sample Area : ACMVSA01
Homogeneous Area: ACMVHA01
Photograph :

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_____
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept_____ Reject_____
1) Include this area in all O&M activities.
2) Refer to DOCUMENT L.1 Perodic Surveillance Plan.
3) Reinspect and reassess this area within three years.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $2,341.95
Replacement Cost : $17.00

PREVENTIVE MEASURES:
See DOCUMENT I.16 for O&M recommendations.

Management Planner: Mike Wigenton Signature: MB Wigenton Date:10/31/88
Accreditation Number: 8802-02-127 Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Mount Vernon School
Building: See Below

REMOVAL COST SUMMARY

BUILDING NAME: Mount Vernon School

HOMOGENEOUS AREA ID	REMOVAL	REPLACEMENT
M30	$19,425.96	$4,416.00
S02	$98,399.00	$16,900.00
S04	$8,759.45	$338.00
T01	$9,748.50	$26.00
T03	$8,228.75	$250.80
T05	$12,485.00	$1,084.00
T08	$13,201.00	$1,804.00
T09	$9,748.50	$26.00
T11	$2,341.95	$17.00
TOTAL FOR Mount Vernon School	$182,338.11	$24,861.80

Note:

Cost estimates are for LEA planning purposes only. The estimates are calculated for each homogeneous area, except floor tiles, flex connectors, boiler gaskets, and fire doors. All cost estimates are based on a three man crew performing the abatement actions. Included in the cost estimates are the following: contractor general mobilization costs, contractor daily project costs, and contractor costs for air testing per 40 CFR 763 Appendix A Unit II requirements. Material replacement costs are also provided assuming any materials removed will be replaced by the contractor. Refined or actual abatement costs can only be determined upon definition of project scope and project design, based on the actual response, as selected by the LEA.

Virginia Department of Education
Energy and Facilities Services

LEA: City of Alexandria Public Schools
School: Mount Vernon School
Building: See Below

R E M O V A L C O S T
S U M M A R Y

BUILDING NAME: Mount Vernon School

HOMOGENEOUS AREA ID	EST. AMOUNT OF MATERIAL	REMOVAL	REPLACEMENT
M99-Fire Doors	28 ea	$ 11,200.00	$ 5,600.00
T04-Boiler Gasket	2 ea	120.00	120.00
Floor Tile	25,450 sq ft	101,800.00	51,080.00
TOTAL From Previous Document G.S.1		182,338.11	24,861.80
TOTAL for Mount Vernon School		$295,458.11	$81,661.80

Note:

Cost estimates are for LEA planning purposes only. All cost estimates are based on a three man crew performing the abatement actions. Included in the cost estimates are the following: contractor general mobilization costs, contractor daily project costs, and contractor costs for air testing per 40 CFR 763 Appendix A Unit II requirements. Material replacement costs are also provided assuming any materials removed will be replaced by the contractor. Refined or actual abatement costs can only be determined upon definition of project scope and project design, based on the actual response, as selected by the LEA. Cost estimates for removal of fire doors are being provided for administrative purposes only and do not constitute a recommendation for removal except in cases of damage.

Alexandria City Public Schools
3 Year AHERA Reinspection
Mount Vernon School
April 14, 1992

In accordance with paragraph 763.85(b)(1) of the Asbestos Hazard Emergency Response Act (AHERA), the Mount Vernon School was reinspected on April 14, 1992. The reinspection was accomplished by Ernest R. Drew, III, a certified and licensed Inspector and Management Planner, under the rules established by the Commonwealth of Virginia Department of Commerce. Mr. Drew's asbestos Inspector license number is 3303000246 and his Management Planner license number is 3304000179.

Only the areas of asbestos containing building materials that were identified by A. F. Meyer in their initial inspection of June 7, 1988 were reinspected.

The first area identified in the inspection and Management Plan in 1988 was the thermal system insulation (TSI) in the boiler room. All this material (T01, 03, 04, 05, 08, 09, & 11) was originally assessed as Category 5 (ACBM with Potential for Damage). That assessment is not changed. The boiler room is clean and all material is intact with only very minor damage in isolated places (< 1%) continue to monitor this area for any change.

The second material was various types of floor tile throughout the school. All of this tile (M01, 02, 03 & 04) is in excellent condition and well waxed. No damage was evident and the tile remains nonfriable. No change is made in the original assessment of Category 5.

The same is true of the 2x4 acoustical ceiling tile (M30) and the fire doors (M99). The doors are metal wrapped doors that were assumed to contain asbestos. They are intact and nonfriable. The ceiling tiles are in good condition with only very minor damage (< 20%).

The last material was some surfacing material. Both the material on the ceiling of the auditorium (S02) and the vestibule (S04) were assessed as "Friable damaged surfacing material" (Category 2). Approved tests of both materials indicate it is nonfriable. Due to it's non friability no assessment is necessary of either of these materials.

The asbestos containing materials are being maintained in accordance with the Management Plan and the laws of Virginia and the United States Environmental Protection Agency. Extra precautions are being taken to prevent fiber releases and ensure a safe environment for the students and faculty.

A copy of this report must be filed with and become a part of the school Management Plan. The next six month surveillance is due October 14, 1992 and the next three year reinspection is due no later than April 14, 1995.



Ernest R. Drew, III
Virginia Inspector #3303000246
Virginia Management Planner #3304000179

FINAL REPORT
Asbestos Abatement of:
Mt. Vernon Elementary School
2601 Commonwealth Avenue
"[redacted] and Gym"
Alexandria, Virginia
(LVI-696427)

D Frost

ALL asbestos has been removed From the Gym

Dale E Frost

Health/Safety

LVI ENVIRONMENTAL SERVICES INC.
8005 CESSNA AVENUE, GAITHERSBURG, MD 20879
TEL: (301) 840-8898 FAX: (301) 840-0965

March 31, 1997

Alexandria Public Schools
2000 N. Beauregard Street
Alexandria, Virginia 22311
Attn.: Dale Frock

Re: Final Report for the Asbestos Removal and Decontamination of Mt. Vernon Elementary School, 2601 Commonwealth Avenue, Alexandria, Virginia location. (LVI-696427).

Dear Mr. Frock,

LVI Environmental Services, Inc. performed the removal of asbestos containing pipe fittings in the Auditorium and Gym on December 20, 1996. All Work was performed according to the new OSHA regulation 29CFR 1926.1101. LVI utilized proper engineering controls and personal protective equipment while performing the removal of the asbestos materials. Enclosed is the final report for the work that had been completed during this period. The final report contains the following documents:

1. **Notification to the State**
2. **Superintendent's Daily Report**
3. **Daily Log Attachment**
4. **Sign In Log Sheet**
5. **Waste Manifest**
6. **Certificate of Insurance**

If you have any questions regarding this report, please feel free to contact myself or Michelle Rich at (301) 840-8898.

Sincerely,

Steve Simpson
Health and Safety Coordinator

LVI

7/5 94

DLI PERMIT NUMBER : _____

Courtesy EPA III

LVI-696427

ASBESTOS PERMIT APPLICATION AND NOTIFICATION FOR DEMOLITION / RENOVATION

1. TYPE OF NOTIFICATION: ☒ ORIGINAL ☐ AMENDED ☐ CANCEL ☐ NESHAPS

2. FACILITY INFORMATION: (facility owner, removal, demolition & other contractors)

OWNER: Alexandria City Public Schools

ADDRESS: 2000 N. Beauregard Street

CITY: Alexandria STATE: VA ZIP CODE: 22311

CONTACT: Dale Frock TELEPHONE #: 703-824-6688

REMOVAL CONTRACTOR: LVI Environmental Serv. LICENSE #: 3306000111

FEDERAL EMPLOYER IDENTIFICATION NUMBER: 23-468089

ADDRESS: 8005 Cessna Avenue

CITY: Gaithersburg STATE: Maryland ZIP CODE: 20879

CONTACT: David Rymers TELEPHONE #: 800-929-5584

DEMOLITION CONTRACTOR: N/A

ADDRESS:

CITY: STATE: ZIP CODE:

CONTACT: TELEPHONE #:

OTHER OPERATOR: N/A

ADDRESS:

CITY: STATE: ZIP CODE:

CONTACT: TELEPHONE #:

3. TYPE OF OPERATION: ☐ DEMO ☒ RENO ☐ EMER.-RENO ☐ ENCAPSULATE

4. IS ASBESTOS PRESENT: ☒ YES ☐ NO

5. FACILITY DESCRIPTION (INCLUDE BUILDING NAME, NUMBER AND FLOOR OR ROOM NUMBER):

BUILDING NAME: Mt. Vernon Elementary School

STREET ADDRESS: 2601 Commonwealth Avenue COUNTY: City of Alexandria

CITY: Alexandria STATE: VA ZIP CODE: 22301

SITE LOCATION: Auditorium / Gym

BUILDING SIZE: 50,000 # FLOORS: 1 AGE IN YEARS: 1960's

PRESENT USE: School PRIOR USE: School

6. SCHEDULED DATES: REMOVAL START: 12 / 20 / 96 FINISH: 12 / 20 / 96

REMOVAL TIMES: DAYS OF OPERATION: (MONDAY - SUNDAY) Friday

WORKSHIFT HOURS: (MONDAY - FRIDAY) 12 PM - 3 PM

(SATURDAY - SUNDAY) N/A

7. SCHEDULED DATES: DEMOLITION START: N/A / / FINISH: / /

8. PROCEDURE, INCLUDING ANALYTICAL METHOD, USED TO DETECT THE PRESENCE OF ASBESTOS:

PLM analysis of bulk samples.

INSPECTOR: N/A VA. CERTIFICATION #:

9. ACM TO BE REMOVED		10. ACM NOT REMOVED	
DESCRIPTION	AMOUNT	DESCRIPTION	AMOUNT
PIPES	4 LNFT	FRIABLE N/A	FT
SURFACE AREA	SQFT	CATEGORY I	FT
VOL. ACM OFF FACILITY	CUFT	CATEGORY II	FT

11. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK, AND METHOD(S) TO BE USED:

Removal of 4 asbestos fittings so new renovation work can be performed.

12. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION AND RENOVATION SITE:

Glovebag method, wet removal procedures, all workers will wear disposable suits and OSHA approved respirators.

13. WASTE TRANSPORTER #1: NAME: Summitt Transport

ADDRESS: 833 West Trenton Avenue

CITY: Morrisville STATE: Pennsylvania ZIP CODE: 19067

CONTACT: Tom Gaudet TELEPHONE: 800-823-7967

WASTE TRANSPORTER #2: NAME: None

ADDRESS: None

CITY: None STATE: ZIP CODE:

CONTACT: None TELEPHONE:

14. WASTE DISPOSAL SITE: NAME: Sanifill, Inc.

LOCATION: 4431 Sands Road

CITY: Harwood STATE: Maryland ZIP CODE: 20776

TELEPHONE: 800-772-1862 LANDFILL PERMIT #: 92-02-07-11 A

15. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW:

NAME: N/A TITLE:

AUTHORITY:

DATE OF ORDER: / / DATE ORDERED TO BEGIN: / /

16. FOR EMERGENCY RENOVATIONS:

DATE AND HOUR OF EMERGENCY: / / N/A TIME:

DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT:

N/A

EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE:

N/A

17. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLED, PULVERIZED, OR REDUCED TO POWDER:

The area will be cleaned and the owner will be notified.

I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THE NESHAP REGULATIONS WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE AT THE PROJECT SITE FOR INSPECTION. (40 CFR PART 61, SUBPART M, REQUIRED AFTER NOVEMBER 20, 1991)

SUPERVISOR:	Misael Campos	LICENSE #:	3302003232
PROJECT MONITOR:	N/A	LICENSE #:	
PROJECT DESIGNER:	Gary Scholze	LICENSE #:	3305000521
LABORATORY:	N/A	LICENSE #:	

SIGNATURE OF OWNER/OPERATOR _____ DATE: / /

19. I CERTIFY THAT THE INFORMATION SUBMITTED IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND THAT ACCREDITED PERSONS ARE BEING USED ON THIS PROJECT.

NAME: DAVID RYMERS TITLE: Vice President

SIGNATURE: _____ DATE: 12 / 18 / 96

20. AMOUNT OF ASBESTOS FEE SUBMITTED: $ 0.00

An asbestos project permit fee shall be submitted with the completed project notification. The fee shall be in accordance with the following schedule unless a blanket notification (as described below)is granted.

1. $50 for each project equal to or greater than 10 linear feet or 10 square feet up to and including 260 linear feet or 160 square feet.
2. $160 for each project equal to or greater than 260 linear feet or 160 square feet up to and including 2600 linear feet or 1600 square feet.
3. $470 for each project of more than 2600 linear feet or 1600 square feet.
4. If the amount of the asbestos is reported in both linear feet and square feet the amounts will be added and treated as if the total were all in square feet for this subsection.
5. $15 for each amended notification.

A blanket notification, valid for a period of one year, may be granted to a contractor who enters into a contract for asbestos removal or encapsulation on a specific site which is expected to last one year or longer.

Address all notifications as described below:

ASBESTOS PROGRAM
DEPARTMENT OF LABOR AND INDUSTRY
POWERS-TAYLOR BUILDING
13 SOUTH THIRTEENTH STREET
RICHMOND, VA. 23219
FAX (804) 371-7634

CREDIT CARD TYPE: (CHECK ONE)

☐ VISA CARD # _____ EXP. DATE: / /

☐ MASTER CARD AUTHORIZED SIGNATURE: _____

LVI
ENVIRONMENTAL SERVICES, INC.
1075 TAFT STREET
ROCKVILLE, MD 20850
(301) 762-1340

Superintendent's Daily Report

JOB NO: 696497 DATE: 12-20-96

JOB NAME: Mt Vernon Elem school
Alex VA

PROJECT CREW

SUPERINTENDENT 1 GEN. FOREMEN ___ FOREMEN ___ MECHANICS ___ HELPERS ___ APPRENTICES ___ LABORERS 1 SUBS & OTHERS ___

TOTAL: 2

AIR MONITOR ON SITE: YES ✓ NO ___

HOURS PRESENT: ___ TO ___

NUMBER OF SAMPLES TAKEN 2

TYPE OF SAMPLES 2 personnels

DUMPSTER: SIZE ✓

SCHEDULED DELIVERY DATE ✓

SCHEDULED PICK-UP DATE -

WORK COMPLETED: start to unload the Equipment then to hang and remove glove bags in the new Gym construction

PERCENTAGE COMPLETED: 100% glove bags or fitting removed and Doors wraped

WORK SCHEDULED: None

PROBLEMS: instal four glove bags on Elbows on the order we removed 23 Elbows total plus two Doors

Miguel Campos
COMPLETED BY

CANARY: OFFICE COPY
WHITE: FIELD/BOOK COPY
BLUE: FIELD OPERATIONS

LVI ENVIRONMENTAL SERVICES INC.
1075 TAFT STREET
ROCKVILLE, MD 20850

DAILY LOG ATTACHMENT

DATE: 12-20-96
SUPERVISOR: Miguel Campos
JOB NUMBER: 696427
JOB NAME: Mt vernon Elem school

(FILL IN ACTIVITY PERFORMED DURING ALL SHIFT RELATED HOURS)

7:00AM - 8:00AM one worker one supervisor arrived on job site 11.45 am start to unload the Equipment then to set up glove bags and remove it

8:00AM - 10:00AM 1.30pm still hanging and removing glove bags

10:00AM - LUNCH 2.15 pm finish the glove bags removal then start to wrap two Doors with double poly

LUNCH - 2:00PM 2.30 pm start loading up Bags, ladders Vaccums, Doors plus the rest of the Equipment

2:00PM - 4:00PM 2.45 pm we left to do another job

4:00PM - We run two resonnals pump

PROBLEMS ENCOUNTERED: instade four glove bags on the list or sitting we made 23 total. plus two Doors.

CC: JOB FILE

LVI

LVI ENVIRONMENTAL SERVICES INC.

SIGN IN LOG SHEET

ASBESTOS WORK AREA ENTRY AND EXIT LOG

DATE: 12-20-96

SHIFT: first

I.H. MONITOR:

SUPERVISOR: Misael Campos

JOB NAME: MT Vernon Elem school

JOB NUMBER: 676427

NAME	SOC.SEC.#	TIME IN/OUT		REASON FOR ENTRY	WORKERS INITIALS	REMARKS
Misael Campos	214-37-3254	11:45	2:45	Work Related	MC	L.V.I
Edwin Najera	607-60-8341	11:45	2:45		EN	

1/97
1996

Mt. Vernon Elem. School
(Auditorium / Gym)

122.448

MANIFEST NUMBER VA 4854

LVI ENVIRONMENTAL SERVICES

1075 TAFT STREET • ROCKVILLE, MARYLAND 20850

NON-HAZARDOUS WASTE MANIFEST

VIRGINIA SITES

GENERATOR

CONTRACTORS NAME: LVI Environmental Services Inc., 1075 Taft Street, Rockville, MD 20850
301-762-1340

WORK SITE: Mt. Vernon Elem. School; Auditorium and Gym Ph. _____ Job # 6964427

OWNERS NAME: Alexandria City Public School 2000 N, Beauregard St. Alex, VA
Dale Frock Ph. 703 824 6688

WASTE DISPOSAL SITE: Sanifill Inc.
Mr. Lewis . Ph. 800 772 1862

DESCRIPTION OF MATERIALS	CONTAINERS NO.	TYPE	(yd³)	Fri.	Non-Fri
Asbestos pipe insulation Fittings, suits, poly, Towels,	14	DM : DP (BA)	2.0	X	
		DM : DP : BA			
		DM : DP : BA			

NAME OF RESPONSIBLE AGENCY: **Asbestos Coordinator, EPA, Region 3**
Chestnut Street, Philadelphia, Pennsylvania 19107
-597-2450

Special Handling Instructions: RQ, Asbestos, 9, NA2212, PG-III

OPERATOR'S CERTIFICATION

I hereby certify that the above material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Name: Steve Simpson Title Safety Coord.

Signature: _____ Date 12/26/96

TRANSPORTER #1 (Acknowledgment Receipt of Material)

Name/address/tel. Summit Transport Grp. Inc.
800 832 7972 Tom Gaudet

Name/sig./date _____ 1/4/97

TRANSPORTER #2 (Acknowledgment Receipt of Material)

Name/address/tel. _____

Name/sig./date _____

DISPOSAL SITE

DISCREPANCY INDICATION SPACE: _____

WASTE DISPOSAL SITE Owner/Operator: _____

Name/Title _____ Sig. _____

Date 1/9/97

White: Mail to: LVI Environmental Services, 1075 Taft St., Rockville, Md. 20850.
Yellow: Transporter **Pink:** Landfill or Disposal site **Gold:** Site Copy

RECEIVED JAN 21 1997

(Miscl.)

ACORD. CERTIFICATE OF INSURANCE

DATE (MM/DD/YY)

PRODUCER

[illegible]enbaum-Harber Co., Inc. Issue Date 12 26 96
[illegible]West 57th Street
[illegible]nd Floor
New York, NY 10019
212-603-0249

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED

LVI ENVIRONMENTAL SERVICES
INC. LVI DEMOLITION SERVICES
INC. & BURDCO/LVI
ENVIRONMENTAL SERVICES INC. &
ALL NAMED AFFILIATED COMPANIES

COMPANIES AFFORDING COVERAGE

COMPANY A: Commerce & Industry Company
COMPANY B: The Ins. Co. Of State Of PA.
COMPANY C:
COMPANY D:

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS MADE [X] OCCUR [ ] OWNER'S & CONTRACTOR'S PROT [X] *INCLUDING ASBESTOS/LEAD/* [X] *CONTRACTORS POLLUTION LIABILITY*	AA1778-0056	1/01/97	1/01/98	GENERAL AGGREGATE PRODUCTS-COMP/OP AGG PERSONAL & ADV INJURY EACH OCCURRENCE FIRE DAMAGE (Any one fire) MED EXP (Any one person)	$ 5,000,000 $ 5,000,000 $ INCLUDED $ 5,000,000 $ 50,000 $ 5,000
A	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [X] HIRED AUTOS [X] NON-OWNED AUTOS [X] Incl. MCS 90	CA5052407 ALL STATES EXCLUDING MA. CA5052408 MA. VEHICLES ONLY	1/01/97	1/01/98	COMBINED SINGLE LIMIT BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE	$ 5,000,000 $ $ $
	GARAGE LIABILITY [ ] ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EACH ACCIDENT AGGREGATE	$ $ $
A	EXCESS LIABILITY [X] UMBRELLA FORM [ ] OTHER THAN UMBRELLA FORM	*INCLUDES POLLUTION* BE6061976	1/01/97	1/01/98	EACH OCCURRENCE AGGREGATE 	$ 5,000,000 $ 5,000,000 $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: [X] INCL [ ] EXCL	RMWC113-17-66 (CA.) RMWC113-15-34	7/01/96	7/01/97	[X] STATUTORY LIMITS EACH ACCIDENT DISEASE - POLICY LIMIT DISEASE - EACH EMPLOYEE	 $ 2,000,000 $ 2,000,000 $ 2,000,000
	OTHER	MT. VERNON ELEMENTARY SCH 696427 1 2601 COMMONWEALTH AVENUE ALEXANDRIA VA			Start: 12 20 96 Completion: 12 20 96 Contract Amount: 0.00 Certification: 970082	

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Additional Insured: -

CERTIFICATE HOLDER

[illegible]RIA CITY PUBLIC SCHOOLS
[illegible] FROCK
2000 N. BEAUREGARD STREET
ALEXANDRIA VA 22311

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 60 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

272210000

MasiMax
Resources, Inc.

THREE-YEAR REINSPECTION OF ASBESTOS-CONTAINING MATERIALS
ALEXANDRIA CITY PUBLIC SCHOOL SYSTEMS (ACPS)
Mount Vernon Elementary School
August 10, 2007

MasiMax Resources Inc. – Environmental Health & Safety Services (MasiMax) conducted the Three Year Re-Inspection of Asbestos-Containing Materials (ACM) at the Mount Vernon Elementary School on June 27, 2007. The purpose of the re-inspection was to assess the condition of all friable and non-friable Asbestos Containing Building Materials (ACBMs) listed as present from the previous triennial re-inspection.

The Scope of Work included a review of the Asbestos Operations & Management Plan (O&M), asbestos inspection and assessment of ACBM, and updated recommended response actions based on the condition of the ACBM.

All tasks were performed in accordance with re-inspection and assessment criteria established by the Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA), 40 CFR, Part 763.85 and Part 763.88. Each homogeneous area of ACM identified by the previous triennial re-inspection report was inspected. Additionally, the quantity, type, current conditions and recommendations are provided in the table presented in Attachment A.

MasiMax's performed an assessment of the school's asbestos O&M to review if the information required by AHERA is present and current. A checklist of the assessment findings is presented in Attachment B. Included in the checklist is the Local Education Agency's (LEA) designated person listed in the on-site O&M plan; however, ACPS should verify if this information is current.

The re-inspection was conducted by Virginia state licensed asbestos inspectors. All work was directed and supervised by a Certified Industrial Hygienist (CIH) who is also licensed by the State of Virginia as an Asbestos Management Planner. Copies of the Virginia asbestos inspector and management planner licenses are presented in Attachment C.

Under the AHERA requirements 763.93, a copy of the triennial re-inspection report shall be included in the ACPS's Management Plan. In addition, all six (6) month periodic inspection reports, response actions conducted at the school, and personnel training records shall be included in the Management Plan. It is the responsibility of the LEA designated person to ensure the Management Plan is updated regularly and made available to any interested party.

Mark Schneider, CIH, PG, LAC
VA Management Planner # 3304 001536
Exp. 06/30/2008

Bjarne Smith
VA Asbestos Inspector # 3303 002764
Exp. 08/31/2007

Amy Chang
VA Asbestos Inspector # 3303 002399
Exp. 05-31-2008

Corporate Headquarters
1375 Piccard Drive • Suite 175 • Rockville, MD 20850
Phone: 240-632-0610 • Fax: 240-632-0519 • www.masimax.com

Environmental Health and Safety Services
11417 Sunset Hills Road • Suite 225 • Reston, VA 20190
Phone: 571-203-7766 • Fax: 571-203-7911

CHECKLIST FOR ALEXANDRIA CITY PUBIC SCHOOLS AHERA MANAGEMENT PLANS

SCHOOL NAME: Mount Vernon

Yes No

■ ☐ Name and address of school, including a statement of whether the facility has friable, non-friable ACBM, suspect friable ACBM, or suspect non-friable ACBM.

Comments: _____

Yes

■ LEA – Designated Person

Name: Mr. William A. Simms Phone #: 703-836-7565

Yes No

■ ☐ Initial Inspection Reports including:

- Date of inspection;
- Diagram or description of ACBM material locations;
- Bulk sample analysis report;
- Initial response action recommendations;
- Assessment of asbestos materials; and,
- Signature, state, and accreditation # of inspector(s).

Comments: _____

Yes No

☐ ■ Records of all response actions for the last three (3) years (or longer), including:

- Detailed description of response actions;
- Air sample results;
- Signature, state, and accreditation of air sampler;
- Signature, state and accreditation of designer; and,
- Signature, state, and accreditation of contractor.

Comments: No air samples results and air sample records.

Yes No

■ ☐ Recommendations for all response actions.

Comments: _____

Yes No

☐ ■ Signature, State, and accreditation of Management Planner, Inspector(s), Designer(s), and Contractor(s) for initial and all re-inspections.

Comments: 2004 re-inspection report was not found, only 1992, 1998 and 2001 reports were found.

Yes No

☐ ■ 6-Month O&M Inspections

Comments: Only six month report in January 1990.

Inspector (s): Bjarne Smith & Amy Chang Date: 6/27/2007

Management Planner: _____ Date: 08/21/2007

City of Alexandria - AHERA Inspection

School **Mt. Vernon** Date 6/27/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
2nd level Auditorium	FT mastic	ALL	Black	60	SF	Unable to locate - under carpet	5	No	Yes	2 rm closets	~60 SF	Exposed mastic	O & M
2nd level JC & UL Auditorium	Floor Tile	9x9	Black	<100	SF	Intact	5	No	Yes	JC + rm 216	~3 SF	Impact	O & M
2nd level storage by JC	Surfacing trowled on ceiling	ALL	N/A	120	SF	Intact	5	No	No	N/A	N/A	N/A	O & M
Above auditorium	Vibration Damper	ALL	N/A	2	EA	Removed, AHU replaced	5	No	No	N/A	N/A	N/A	N/A
Above auditorium	TSI-pipes, elbows	ALL	N/A	30	LF	Removed, AHU replaced	1	No	No	N/A	N/A	N/A	N/A

City of Alexandria - AHERA Inspection

School **Mt. Vernon** Date 6/27/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Above auditorium	TSI-elbows, joints	4 in	N/A	20	EA	Removed, AHU replaced	5	Yes	No	N/A	N/A	N/A	N/A
AHU room across from room 221	Plaster	ALL	White	ALL	ALL	Some replaced	0	No	No	N/A	N/A	N/A	O & M
AHU room next to room 221	Vibration Damper	ALL	Gray	ALL	ALL	Removed; new vibration damper maybe ACM	5	No	No	N/A	N/A	N/A	O & M
Auditorium	Floor Tile	9x9	Maroon	4450	SF	Removed 7/03	5	No	No	N/A	N/A	N/A	N/A
Cafeteria	Mastic on 6" pipe insulation	ALL	Tan	ALL	ALL	Intact	5	No	No	N/A	N/A	N/A	O & M

City of Alexandria - AHERA Inspection

School **Mt. Vernon** Date 6/27/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Cafeteria	Floor Tile	12x12	Light green	6000	SF	New 12x12 white/beige and green floor tile	5	No	No	N/A	N/A	N/A	O & M
Hallway of rooms. 111-117 & Room 225	Glue dots		Brown			Located above ceiling tiles		No	No	N/A	N/A	N/A	O & M
Hallway of rooms. 223-225	Black mastic		Black			Located on pipe runs above ceiling tiles		No	No	N/A	N/A	N/A	O & M
Hallway rooms 111-117	TSI-elbows, joints	2 in	Beige	20	EA	Unable to locate. Found replaced elbows near rm 116.	5	No	No	N/A	N/A	N/A	O & M
Hallways	Fire Doors	door	N/A	ALL	ALL	Intact	5	No	No	N/A	N/A	N/A	O & M

City of Alexandria - AHERA Inspection

School **Mt. Vernon** Date 6/27/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
HVAC across from 223	Vibration Damper	ALL	N/A	1	EA	Removed	5	No	No	N/A	N/A	N/A	N/A
HVAC across from 223	TSI-Pipe runs elbows	6 in	Tan	< 30	LF	Replaced	5	No	No	N/A	N/A	N/A	N/A
Janitor Closet by room 221	Tile	9x9	Black			PACM good condition	5	No	No	N/A	N/A	N/A	O & M
Janitor's closet across from new 101	TSI-elbows, joints	4 in	N/A	3	EA	6 (4 inch) elbows & 6 (2 inch) elbows. Intact.	5	No	No	N/A	N/A	N/A	O & M
Janitor's closet valve	TSI-elbows, joints	4 in	N/A	2	EA	Intact	5	Yes	Yes	Throughout	1-2 elbows	Impact	Repair/Remove

City of Alexandria - AHERA Inspection

School **Mt. Vernon** Date 6/27/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Old Wing	Floor Tile	9x9	Maroon w/blk	ALL	SF	Covered with white, beige & green floor tile	5	No	No	N/A	N/A	Const/Demo	O & M
Room 112	Mastic on pipe insulation, and foil wrap ducts	ALL	Black	ALL	ALL	OK	5	No	No	N/A	N/A	N/A	O & M
Room 112	Adhesive divot	ALL	Brown	ALL	ALL	OK	0	No	No	* Various	Various	Localized	O & M
Room 209, throughout 2nd flr.	Mastic or plaster on steal support beams	ALL	White	ALL	ALL	OK	0	No	No	N/A	N/A	N/A	O & M
Room 225	Black mastic on fiberglass TSI		Black			Located above ceilng tiles, not sampled (PACM)		No	No	N/A	N/A	N/A	O & M

City of Alexandria - AHERA Inspection

School **Mt. Vernon** Date 6/27/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Stair towers vestibule old gym	Surfacing trowled on	ALL	White	100	SF	Removed	0	No	No	N/A	N/A	N/A	N/A
Storage next to JC (pic)	TSI-elbows, joints	4 in	N/A	N/A	LF	Unable to locate	1	No	Yes	overhead	~10 LF	Deterioriation	Verify Removal
Storeroom by JC 2nd Floor	Floor Tile	9x9	Red	~50	SF	Removed 7/03	5	No	No	N/A	N/A	N/A	N/A