AHERA - THREE YEAR REINSPECTION



CHARLES BARRETT ES

1115 MARTHA CUSTIS DRIVE
ALEXANDRIA, VIRGINIA 22302

ECS PROJECT NO. 47:11652-E4-5

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

AUGUST 18, 2025

August 18, 2025

Mr. Lee Conroy
Alexandria City Public Schools
1705 North Beauregard Street
Alexandria, Virginia 22311

ECS Project No. 47:11652-E4-5

Reference: AHERA - Three Year Reinspection, Charles Barrett ES, 1115 Martha Custis Drive, 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 Charles Barrett ES located at 1115 Martha Custis Drive in Alexandria, Virginia.

Previous asbestos surveys of the school identified asbestos-containing materials. ECS performed a cursory walk through of the school to observe present conditions. The following materials were observed to be damaged at the time of the site visit:

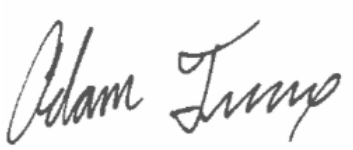
- **9" x 9" Maroon Floor Tile located in Janitor Closet 206 was observed as damaged with missing Floor Tiles and exposed Mastic.**
- **3" OD TSI Pipe Run located in the Kitchen Area was observed as damaged.**

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
540-667-3750



Christopher J. Chapman, CIH
Director of Industrial Hygiene
cchapman@ecslimited.com
804-767-5102

TABLE OF CONTENTS

PAGE

1.0 SITE DESCRIPTION 1

2.0 PURPOSE 1

3.0 METHODOLOGY 1

3.1 Asbestos Re-Inspection 1

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 Charles Barrett ES, a two-story brick school building located at 1115 Martha Custis Drive in Alexandria, Virginia. The school was originally constructed in 1949 and has been improved with various renovations and additions in 1997, 2011, 2015, and during the time of the re-inspection. 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.

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

- Asbestos-containing Floor Tiles and associated Mastic in Room 104 in 2019. (ECS Project No. 47:1519-H)
- Asbestos-containing Floor Tiles and associated Mastic in the Circular Classroom, Room 101, Hallway Ramp, and Janitor's Closest within the Kindergarten Wing (ECS Project No. 47:11652-J1), Rooms 102 and 103 (ECS Project No. 47:11652-J2), and in the Entrance Area of the First Floor (ECS Project No. 47:11652-J3) in 2022.
- Asbestos-containing Floor Tiles and associated Mastic in Rooms 219, 220, 221, 224, 225, 226, 227, 228, and 230 in 2024. (ECS Project No. 47:1519-H1)

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 assumed to be present in the school, even in areas where it was reported abated (concealed under fixtures such as cabinets etc.).

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 the 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 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. ECS notes the following ACMs were observed to be damaged during the site reconnaissance.

- **9" x 9" Maroon Floor Tile located in Janitor Closet 206 was observed as damaged with missing Floor Tiles and exposed Mastic.**
- **3" OD TSI Pipe Run located in the Kitchen Area was observed as damaged.**

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

ECS recommends the damaged 9" x 9" Maroon Floor Tile in Janitor Closet 206 and the 3" OD TSI Pipe Run in the Kitchen area be abated by a Virginia licensed asbestos abatement contractor.

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

Charles Barrett Elementary School

Previously Identified Asbestos-Containing Building Materials

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
1st Floor Elevator Lobby Area	12” x 12” White Floor Tile with Tan Streaks and associated and Black Mastic	Tile – 2% Chrysotile Mastic – 4% Chrysotile	Category I Non-Friable	Not applicable	Not observed, assumed to be concealed by newer applications or abated.
1st Floor Elevator Lobby Area	Black Mastic associated with 12” x 12” White Floor Tile with Gray Streaks	Mastic –3% Chrysotile	Category I Non-Friable	Not applicable	Not observed, assumed to be concealed by newer applications or abated.
Pre-K Hallway	2’ x 2’ White Pinhole Fissure Ceiling Tile	Tile - <1% Chrysotile	RACM	(6) ACBM with potential for significant damage.	Not observed.
Exterior Window of the IT Server Room	1” Black Exterior Window Sealant	Sealant – 20% Chrysotile	Category II Non-Friable	Not applicable	Not observed, assumed to be present.
Observed throughout the Building (Above Drop Ceiling Tiles in some Areas)	Brown Ceiling Mastic	Analytical Results not Available	Category II Non-Friable	Not applicable	Observed, Intact.
Janitor’s Closets (Assumed in other Areas)	9” x 9” Maroon Floor Tiles and associated Mastic	Analytical Results not Available	Category I Non-Friable	Not applicable	Observed, Damaged, missing Floor Tile with exposed Mastic in Janitor Closest 206.
Auditorium Stage Area (Assumed under 12” x 12” Floor Tiles in other Areas)	9” x 9” Light Brown Floor Tiles and associated Mastic (assumed under 12” x 12” Floor Tile)	Analytical Results not Available	Category I Non-Friable	Not applicable	Not observed, assumed to be concealed by newer applications.

Charles Barrett Elementary School

Previously Identified Asbestos-Containing Building Materials

Cafeteria Stairwell (Assumed under 12” x 12” Floor Tiles in other Areas)	9” x 9” Brown Floor Tiles and associated Mastic (assumed under 12” x 12” Floor Tile)	Analytical Results not Available	Category I Non-Friable	Not applicable	Not observed, assumed to be concealed by newer applications.
Kitchen Area (Storage Room and Bathroom) (Assumed in other Areas)	TSI - 3” OD Pipe Run	Analytical Results not Available	Friable	Not applicable	Observed, Damaged.
Hallways (Observed in other Areas)	Fire Door Insulation	Analytical Results not Available	Friable	Not applicable	Observed, Intact.

Notes:

1. Asbestos-containing Floor Tiles and associated Mastic in Room 104 was abated in 2019. (ECS Project No. 47:1519-H)

2. Asbestos-containing Floor Tiles and associated Mastic in the Circular Classroom, Room 101, Hallway Ramp, and Janitor's Closest within the Kindergarten Wing (ECS Project No. 47:11652-J1), Rooms 102 and 103 (ECS Project No. 47:11652-J2), and in the Entrance Area of the First Floor (ECS Project No. 47:11652-J3) was abated in 2022.

3. Asbestos-containing Floor Tiles and associated Mastic in Rooms 219, 220, 221, 224, 225, 226, 227, 228, and 230 in 2024. (ECS Project No. 47:1519-H1)

*No additional description of the vinyl floor tiles abaed was provided in historical documentation

Appendix II: Floor Plan



North UP
15 YARD GRID
Version Control #
V1.0

Basement - Micro

Charles Barrett Elementary School
1115 Martha Custis Dr, Alexandria, VA 22302

VA School Code
VA-101-0120

Alexandria City Public Schools



First Floor - Micro

Charles Barrett Elementary School

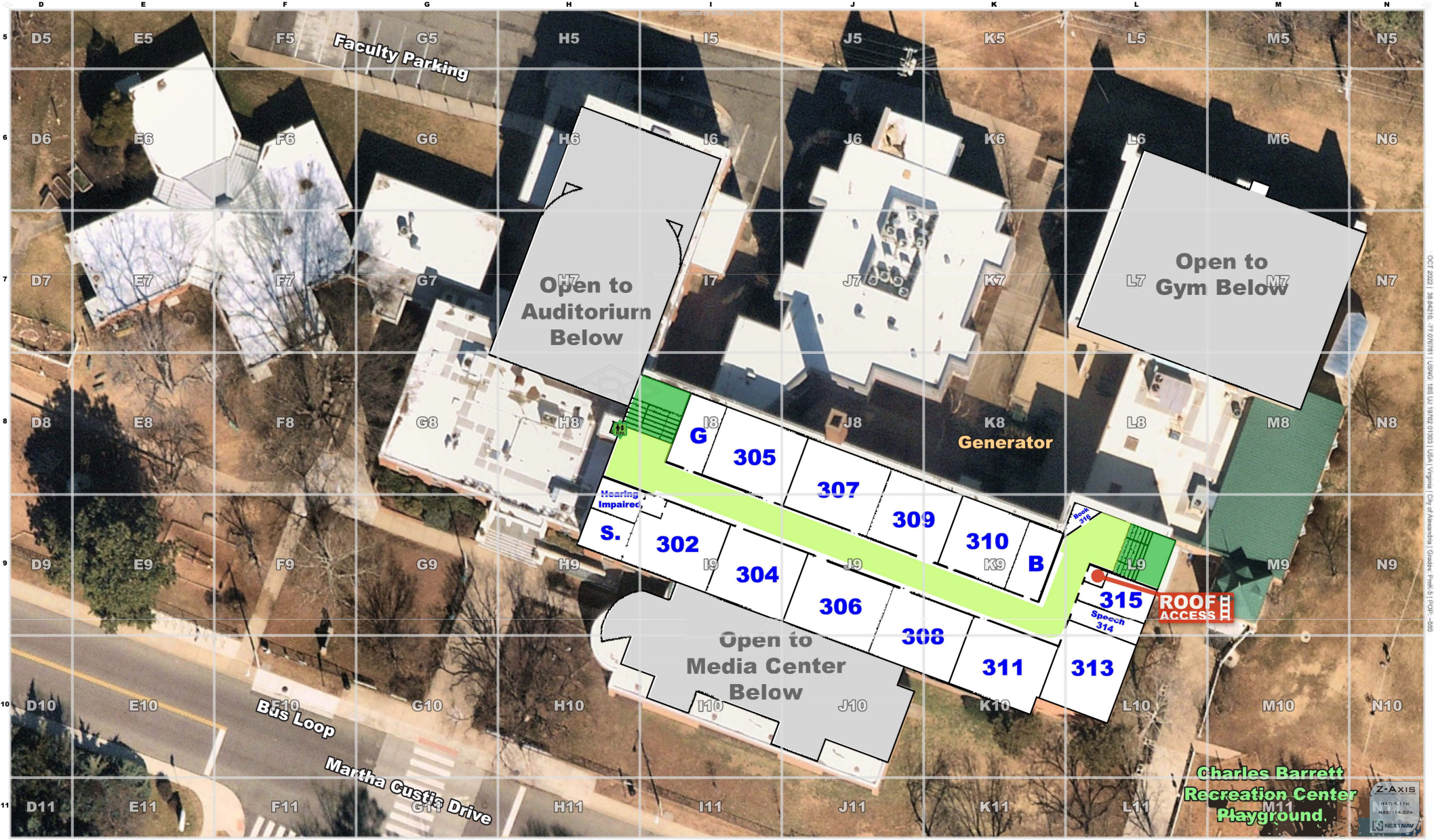
1115 Martha Custis Dr, Alexandria, VA 22302

North UP | 15 YARD GRID | Version Control # V1.0

VA School Code VA-101-0120

Alexandria City Public Schools

Collaborative Response Graphic ® by Critical Response Group, Inc. © www.CRGplans.com/Terms-Of-Use



North UP | 15 YARD GRID | Version Control # V1.0

Second Floor - Micro

Charles Barrett Elementary School

1115 Martha Custis Dr, Alexandria, VA 22302

VA School Code VA-101-0120

Alexandria City Public Schools

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



CHARLES BARRETT ELEMENTARY SCHOOL

1115 MARTHA CUSTIS DRIVE
ALEXANDRIA, VIRGINIA 22302

ECS PROJECT NO. 47:11652-E2

FOR: ALEXANDRIA CITY PUBLIC SCHOOL

MAY 2, 2022

May 2, 2022

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

ECS Project No. 47:11652-E2

Reference: AHERA Asbestos-Containing Materials Survey, Charles Barrett Elementary School, 1115 Martha Custis Drive, Alexandria, Virginia

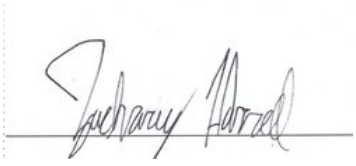
Dear Mr. Contreras:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public School with the results of the above referenced AHERA Asbestos-Containing Materials Survey performed at Charles Barrett Elementary School located at 1115 Martha Custis Drive 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 School 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 Charles Barrett Elementary School, a two-story brick school building located at 1115 Martha Custis Drive in Alexandria, Virginia. The school was originally constructed in 1949 and has been improved with various renovations and additions in 1997, 2011, and 2015. 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 building. 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 survey, the following materials were reported to contain asbestos:

- Mastic Associated with 12" x 12" light blue floor tile present in the Kindergarten Hall outside Rm. 107 and observed in other areas throughout the building.

Based on a review of historical documentation the following materials were previously identified as asbestos-containing and have yet to be been abated as per information provided to ECS and/or our observations.

- 12” x 12” White Floor Tile with Tan Streaks and Black Mastic located in the 1st Floor Elevator Lobby Area.
- Black Mastic Associated with 12” x 12” White Floor Tile with Gray Streaks located in the1st Floor Elevator Lobby Area.
- 2’ x 2’ White Pinhole Fissure Ceiling Tile located in Pre-K Hallway.
- 1” Black Exterior Window Sealant located in the Exterior Window of the IT Server Room.
- Brown Ceiling Mastic observed throughout the Building (Above Drop Ceiling Tiles in some Areas).
- 9” x 9” Maroon Floor Tiles and associated Mastic located in the Janitor’s Closets (Assumed in other Areas.
- 9” x 9” Light Brown Floor Tiles and associated Mastic (assumed under 12” x 12” Floor Tile) located in the Auditorium Stage Area (Assumed under 12” x 12” Floor Tiles in other Areas).
- 9” x 9” Brown Floor Tiles and associated Mastic (assumed under 12” x 12” Floor Tile) located in the Cafeteria. Stairwell (Assumed under 12” x 12” Floor Tiles in other Areas).
- TSI-3” OD Pipe Run located in the Kitchen Area (Storage Room and Bathroom); Note Additional TSI is assumed to be present in other areas of the building.
- Fire Door Insulation located in the Hallways; Fire doors are assumed to be present throughout the building.

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

- Historical documentation reviewed showed that asbestos-containing floor tile and mastic was removed from Room 104 in 2019 (reference ECS PROJECT NO. 47: 1519-C7).
- In 2022, 12" x 12" vinyl floor tile (2 layers in the Circular Classroom Foyer Section), unknown size VFT on the ramp of the hallway, and their associated mastics were abated from the kindergarten hallway, Classroom 101, and an associated janitors closet. Roughly 2,635 square feet was abated (reference ECS PROJECT NO. 47:11652-J1).

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 9

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS 10

5.1 Asbestos-Containing Materials 10

6.0 LIMITATIONS 11

TABLE OF APPENDICES

Appendix I: Asbestos Bulk Sample Results

Appendix II: Laboratory Report(s)

Appendix III: Certifications/Licenses

Appendix IV: AHERA ACBM and Suspect ACBM Categories Document

Appendix V: Previous Reports

1.0 SITE DESCRIPTION

The subject property consists of Charles Barrett Elementary School, a two-story brick school building located at 1115 Martha Custis Drive in Alexandria, Virginia. The school was originally constructed in 1949 and has been improved with various renovations and additions in 1997, 2011, and 2015. 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 that all public and private schools (K-12) survey school buildings and associated support school buildings for ACMs, and to prepare management plans for any 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 asbestos inspectors who have 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.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 November 9, 2021. 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, 8 bulk samples from homogeneous areas were submitted to the laboratory of which 15 layers were analyzed.

Summary of Asbestos-Containing Materials Identified

Location	Material Description	Analytical Result	EPA Category	AHERA Category
Kindergarten Hall outside Rm. 107	Mastic associated with 12" x 12" Light Blue Floor Tile	Mastic- 2% Chrysotile	Category I Non-Friable	Not applicable

Summary of Previously Identified Asbestos-Containing Materials

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
1st Floor Elevator Lobby Area	12” x 12” White Floor Tile with Tan Streaks and associated Black Mastic	Tile – 2% Chrysotile Mastic – 4% Chrysotile	Category I Non-Friable	Not applicable	No abatement history upon review, assumed to be present**
1st Floor Elevator Lobby Area	Black Mastic associated with 12” x 12” White Floor Tile with Gray Streaks	Mastic –3% Chrysotile	Category I Non-Friable	Not applicable	No abatement history upon review, assumed to be present**

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
Pre-K Hallway	2’ x 2’ White Pinhole Fissure Ceiling Tile	Tile - <1% Chrysotile	RACM	(6) ACBM with potential for significant damage.	No abatement history upon review, assumed to be present
Exterior Window of the IT Server Room	1” Black Exterior Window Sealant	Sealant – 20% Chrysotile	Category II Non-Friable	Not applicable	No abatement history upon review, assumed to be present
Observed throughout the Building (Above Drop Ceiling Tiles in some Areas)	Brown Ceiling Mastic	Analytical Results not Available	Category II Non-Friable	Not applicable	No abatement history upon review, assumed to be present
Janitor’s Closets (Assumed in other Areas)	9” x 9” Maroon Floor Tiles and associated Mastic	Analytical Results not Available	Category I Non-Friable	Not applicable	No abatement history upon review, assumed to be present
Auditorium Stage Area (Assumed under 12” x 12” Floor Tiles in other Areas)	9” x 9” Light Brown Floor Tiles and associated Mastic (assumed under 12” x 12” Floor Tile)	Analytical Results not Available	Category I Non-Friable	Not applicable	No abatement history upon review, assumed to be present

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
Cafeteria Stairwell (Assumed under 12" x 12" Floor Tiles in other Areas)	9" x 9" Brown Floor Tiles and associated Mastic (assumed under 12" x 12" Floor Tile)	Analytical Results not Available	Category I Non-Friable	Not applicable	No abatement history upon review, assumed to be present
Kitchen Area (Storage Room and Bathroom) (Assumed in other Areas)	TSI-3" OD Pipe Run	Analytical Results not Available	Friable	Not applicable	No abatement history upon review, assumed to be present
Hallways (Observed in other Areas)	Fire Door Insulation	Analytical Results not Available	Friable	Not applicable	No abatement history upon review, assumed to be present
Notes: ***Historical documentation reviewed showed that asbestos-containing floor tile and mastic was removed from Room 104 in 2019 (reference ECS PROJECT NO. 47: 1519-C7).** ****In 2022, 12" x 12" vinyl floor tile (VFT)(2 layers in the Circular Classroom Foyer Section), unknown size VFT on the ramp of the hallway, and their associated mastics was abated from the kindergarten hallway, Classroom 101, and an associated janitors closet. Roughly 2,635 square feet was abated (reference ECS PROJECT NO. 47:11652-J1).**					

Summary of Non Asbestos-Containing Materials Identified

Location	Material Description	Analytical Results
Materials Sampled in 2021 AHERA Survey		
Kindergarten Hall outside 107	Blue Sheet Flooring	NAD
Kindergarten Hall outside 107	12" x 12" Red Floor Tile and associated Clear Mastic	Both NAD
Kindergarten Hall outside 107	12" x 12" Navy Blue Floor Tile and associated Clear Mastic	Both NAD

Location	Material Description	Analytical Results
Previously Sampled Materials		
Exit Door 12, Main Entrance, & Exit Door 4	Black Interior Door Caulk	NAD
Boiler Room	Plaster Ceiling Beam	NAD
Basement Foyer (above Drop Ceiling), Clinic Room 8 on 1st Floor, IT Server Room & Room 38 on 2nd Floor	Plaster Ceiling	NAD
Cafeteria (by Electrical Panel)	Plaster Wall	NAD
Room 6 on 1st Floor	Textured Plaster Wall	NAD
Stage	Textured Plaster Ceiling	NAD
Room 26 on 2nd Floor	White Sink Undercoat	NAD
Hallway to Cafeteria & HVAC Room on 1st Floor	Drywall Wallboard	NAD
Hallway to Cafeteria & HVAC Room on 1st Floor	Drywall Joint Compound	NAD
Kindergarten Room 3 & Kindergarten Common Area	Grey Sink Undercoat	NAD
HVAC Room on 1st Floor	Beige Mastic on Metal Duct	NAD
Boiler Room	Brown Mastic Associated with Interior Window Casing	NAD
Boiler Room	Black Interior Window Caulk	NAD
Boiler Room	Grey Interior Window Glazing	NAD
Boiler Room	White Interior Door Caulk	NAD
Boiler Room	White Pipe Bridging Mastic	NAD
Boiler Room	Plaster Ceiling with Black Waterproofing	NAD
Stair Landing to Boiler Room	Brown Stair Tread and Associated Brown Mastic	NAD
Stair Landing to Boiler Room	12" x 12" Off-White with Brown/ White Flecks Floor Tile	NAD
Basement Foyer, 1st Floor Hallway, & Secondary Book Room on 2nd Floor	2' x 4' White Pinhole/Fissured Ceiling Tile	NAD

Location	Material Description	Analytical Results
Hallway to Cafeteria, 2nd Floor Hallway, & Clinic Room 8 on 1st Floor	2' x 2' White Fissured Ceiling Tile	NAD
Basement Restrooms	White Textured Plaster Wall	NAD
Kitchen Bathroom	White Textured Plaster Ceiling	NAD
Closet in Kindergarten Room 2	4" Pipe Fitting TSI	NAD
Kindergarten Common Area (behind Sink Cabinet)	Brown Wall Board	NAD
Ramp to Kindergarten Area	1' x 1' Gray (White Painted) Textured Ceiling Tile	NAD
1st, 2nd, and 3rd Floor Hallway	Floor Tile under 12" x 12" Floor Tile	NAD
2nd, 3rd, and 4th Floor Hallway (above Drop Ceiling)	Grey Mastic on Metal Duct	NAD
Room 38, 36, & 33 on 2nd Floor	2' x 4' White 2' x 2' Shaped Fissured Ceiling Tile	NAD
1st Floor Addition Lobby by Bathroom	12" x 12" Gray Line Patterned Floor Tile	NAD
1st Floor Addition Lobby by Bathrooms	Cream Mastic/Leveling Compound associated with 12" x 12" Gray Line Patterned Floor Tile	NAD
1st Floor Addition Lobby by Bathrooms	12" x 12" Gray Line Patterned Floor Tile	NAD
1st Floor Addition Lobby by Bathrooms	4" Lime Green Cove base	NAD
1st Floor Addition Lobby by Bathrooms	Cream Mastic associated with 4" Lime Green Cove base	NAD
Ground Floor Hall by Room 19	12" x 12" Green Mottled Floor Tile	NAD
Ground Floor Hall by Room 19	Yellow Mastic associated with 12" x 12" Green Mottled Floor Tile	NAD
Ground Floor Hall by Room 19	12" x 12" Yellow Feathered Floor Tile	NAD
Ground Floor Hall by Room 19	12" x 12" Blue Feathered Floor Tile	NAD
Ground Floor Hall by Room 19	12" x 12" Cream Feathered Floor Tile	NAD
Ground Floor Hall by Room 19	Yellow Mastic associated with 12" x 12" Blue Feathered Floor Tile	NAD

Location	Material Description	Analytical Results
Ground Floor Hall by Room 19	Yellow Mastic associated with 12" x 12" Cream Feathered Floor Tile	NAD
Ground Floor Hall by Room 19	12" x 12" White with Black Streaks Floor Tile	NAD
1st Floor Elevator Lobby	4” Black Cove Base with Cream Mastic	NAD
1st Floor Elevator Lobby	4” Black Cove Base with Cream Mastic	NAD
1st Floor Elevator Lobby	Drywall Wallboard	NAD
1st Floor Elevator Lobby	Drywall Joint Compound	NAD
1st Floor Elevator Lobby/Closet	12” x 12” White Floor Tile with pink/Blue Streaks and Yellow Mastic	NAD
1st Floor Elevator Lobby/Closet	1’ x 1’ Texture Print Ceiling Tile	NAD
IT Server Room	Textured Wall Coating	NAD
IT Server Room	Plaster Wall	NAD
IT Server Room	2’ x 2’ Pinhole Punch Fissure Ceiling Tile	NAD
IT Server Room	Yellow Carpet Mastic	NAD
Pre-K Hallway	2’ x 2’ Pinhole Fissure Ceiling Tile	NAD
Pre-K Hallway	12” x 12” White Floor Tile with Blue Streaks and Yellow/Black Mastics	NAD
1st Floor Kindergarten Hallway	Gray Fiberboard Wall Panel	NAD
1st Floor Kindergarten Hallway	Residual Brown Cove base Mastic on Brick Wall	NAD
1st Floor Kindergarten Hallway	Gray "Mudded" Pipe Fitting Insulation - Wrap & Insulation	NAD
1st Floor Auditorium Entrance	Cork Wall Panel and associated black mastic	NAD
1st Floor Primary Book Room, 2nd Floor Hallway & 1st Floor Auditorium	Wall Texture	NAD
1st Floor Hallway to Cafeteria	White Ceramic Chair Rail Caulk	NAD

Location	Material Description	Analytical Results
1st Floor Main Office & 2nd Floor Room 31	White Door Caulk	NAD
Southwest Roof, Northwest Roof, & East Roof	White Caulking on Metal Sloped Roof	NAD
Southwest Roof & Northwest Roof	Hot Roofing Layer (3rd layer)	NAD
Southwest Roof	Flashing Hot Layer	NAD
Northwest Roof	Black Caulking (painted green) on Metal Sloped Roof	NAD
Northwest Roof	Tan Caulking on Metal Sloped Roof	NAD
East Roof	Gray Flashing Caulk	NAD
East Roof	White Caulk on Roof Box	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.**		

Flooring Materials:

ECS observed asbestos-containing black mastic associated with 12"x12" light blue floor tile outside of Room 107 in the Kindergarten Hallway. This material may be present in other areas of the building. Note: generally asbestos-containing floor tile and mastics can be found under furniture, partitions, other flooring materials, etc. Unless otherwise indicated in this report, all floor tile and mastic in the school should be assumed to be asbestos containing.

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 dry-erase/chalk boards.
- **"Transite" Panels** used chalk boards, soffits, panels under windows interior/exterior)
- **Water Fountain Components** in water fountains (mastics, pipe cloth, etc).
- **Thermal System Insulation (TSI)** on pipes within chases, behind solid walls/ceilings, 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
- **Felt Paper and adhesives** associated with hardwood floors.
- **Asbestos-Cement Pipe Conduit** encased in duct banks and/or below sub-grade.
- **Terrazzo floors**
- **Exterior materials** (roofs, caulks, soffits, vapor barriers, water proofing etc.)

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 ACMs are to be removed, it is required that a licensed/accredited asbestos abatement contractor be retained to perform this work. A 20-day notification to Virginia Department of Labor and Industry for disturbance of the asbestos-containing materials identified during this survey maybe required. This should be the responsibility of the asbestos abatement firm selected for the project.

If renovation work is planned, ECS recommends that 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.

ECS also recommends that the Owner retain an asbestos project monitor/industrial hygienist as an independent third party to inspect the asbestos abatement contractor for general compliance with applicable asbestos regulations, document completion of work, and to perform air monitoring/final clearance air testing as needed. This is required by both EPA and Virginia for re-occupancy following the abatement of asbestos.

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.

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: Asbestos Bulk Sample Results

SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

Sample #	Sampling Location	Material/Description	Analytical Results
1 - A	□indergarten □all□ay outside o□107	Blue Sheet □looring- □ile	NA□
1 - B	□indergarten □all□ay outside o□107	Blue Sheet □looring- Mastic	NA□
2 - A	□indergarten □all□ay outside o□107	Blue Sheet □looring- □ile	NA□
2 - B	□indergarten □all□ay outside o□107	Blue Sheet □looring- Mastic	NA□
3 - A	□indergarten □all□ay outside o□107	12□x 12□□ed □loor □ile □ith Clear Mastic- □ile	NA□
3 - B	□indergarten □all□ay outside o□107	12□x 12□□ed □loor □ile □ith Clear Mastic- Mastic	NA□
4 - A	□indergarten □all□ay outside o□107	12□x 12□□ed □loor □ile □ith Clear Mastic- □ile	NA□
4 - B	□indergarten □all□ay outside o□107	12□x 12□□ed □loor □ile □ith Clear Mastic- Mastic	NA□
5- A	□indergarten □all□ay outside o□107	12□x 12□Light Blue □loor □ile □ith Clear Mastic- □ile	NA□
5 - B	**Kindergarten Hallway outside of 107**	**12" x 12" Light Blue Floor Tile with Clear Mastic- Mastic**	**2% Chrysotile**
6 - A	□indergarten □all□ay outside o□107	12□x 12□Light Blue □loor □ile □ith Clear Mastic- □ile	NA□
6 - B	**Kindergarten Hallway outside of 107**	**12" x 12" Light Blue Floor Tile with Clear Mastic- Mastic**	**Not Analyzed**
7 - A	□indergarten □all□ay outside o□107	12□x 12□Na□y Blue □loor □ile □ith Clear Mastic- □ile	NA□
7 - B	□indergarten □all□ay outside o□107	12□x 12□Na□y Blue □loor □ile □ith Clear Mastic- Mastic	NA□
8	□indergarten □all□ay outside o□107	12□x 12□Na□y Blue □loor □ile □ith Clear Mastic- □ile □nly	NA□

□able Notes:
Bold □ Asbestos-Containing Materials
N□A □ Not Analy□ed
None □etected □ No Asbestos □etected

Appendix II: 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

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/ACPS Charles Barrett

Lab Order ID: 71978746
Analysis ID: 71978746_PLM
Date Received: 11/5/2021
Date Reported: 11/9/2021

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1 - A *71978746PLM_1*	Blue Sheet Flooring *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Ashed
1 - B *71978746PLM_9*	Blue Sheet Flooring *mastic*	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Crushed, Ashed
2 - A *71978746PLM_2*	Blue Sheet Flooring *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Ashed
2 - B *71978746PLM_10*	Blue Sheet Flooring *mastic*	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Ashed
3 - A *71978746PLM_3*	12" x 12" Red Floor Tile with Clear Mastic *tile*	**None Detected**		**100% Other**	Rust Non Fibrous Homogeneous Crushed
3 - B *71978746PLM_11*	12" x 12" Red Floor Tile with Clear Mastic *mastic (very small sample)*	**None Detected**		**100% Other**	Transparent, Yellow Non Fibrous Homogeneous Crushed
4 - A *71978746PLM_4*	12" x 12" Red Floor Tile with Clear Mastic *tile*	**None Detected**		**100% Other**	Rust Non Fibrous Homogeneous Crushed
4 - B *71978746PLM_12*	12" x 12" Red Floor Tile with Clear Mastic *mastic (very small sample)*	**None Detected**		**100% Other**	Beige, Yellow 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%.

Lachlan Krenz (15)

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/ACPS Charles Barrett

Lab Order ID: 71978746
Analysis ID: 71978746_PLM
Date Received: 11/5/2021
Date Reported: 11/9/2021

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
5 - A *71978746PLM_5*	12" x 12" Light Blue Floor Tile with Clear Mastic *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Crushed
5 - B *71978746PLM_13*	12" x 12" Light Blue Floor Tile with Clear Mastic *mastic*	**2% Chrysotile**		**98% Other**	Grayish, Brown, Yellow Non Fibrous Crushed
6 - A *71978746PLM_6*	12" x 12" Light Blue Floor Tile with Clear Mastic *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Crushed
6 - B *71978746PLM_14*	12" x 12" Light Blue Floor Tile with Clear Mastic *mastic*	**Not Analyzed**			
7 - A *71978746PLM_7*	12" x 12" Navy Blue Floor Tile with Clear Mastic *tile*	**None Detected**		**100% Other**	Grayish, Blue Non Fibrous Homogeneous Crushed
7 - B *71978746PLM_15*	12" x 12" Navy Blue Floor Tile with Clear Mastic *mastic (very small sample*	**None Detected**		**100% Other**	Transparent, Brown Non Fibrous Homogeneous Crushed
8 *71978746PLM_8*	12" x 12" Navy Blue Floor Tile with Clear Mastic *tile only*	**None Detected**		**100% Other**	Grayish, Blue 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%.

Lachlan Krenz (15)

Analyst

Approved Signatory

7197846

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 an 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/ ACPS Charles Barrett Sc	
Client Notes:		*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	11652-E2/ ACPS Charles Barrett Sc	*Nota: 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:	11/4/2021 0:00	
Analysis:	PLM EPA 600/R-93/116	
TurnAroundTime:	3-Day	

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	Blue Sheet Flooring	Kindergarten Hall outside 107
2	HA1	Blue Sheet Flooring	Kindergarten Hall outside 107
3	HA2	12" x 12" Red Floor Tile with Clear Mastic	Kindergarten Hall outside 107
4	HA2	12" x 12" Red Floor Tile with Clear Mastic	Kindergarten Hall outside 107
5	HA3	12" x 12" Light Blue Floor Tile with Clear Mastic	Kindergarten Hall outside 107
6	HA3	12" x 12" Light Blue Floor Tile with Clear Mastic	Kindergarten Hall outside 107
7	HA4	12" x 12" Navy Blue Floor Tile with Clear Mastic	Kindergarten Hall outside 107
8	HA4	12" x 12" Navy Blue Floor Tile with Clear Mastic	Kindergarten Hall outside 107
>>			

B Mulley 1/5 10:30A

Accepted ☒

Rejected ☐

Relinquished By

Received By

Appendix III: 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
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 IV: 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 V: Previous Reports

CHARLES BARRETT ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

□□dated as o□□ece□ber 2□, 2016

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS								
Bro□n Ceiling Mastic	Ca□eteria	N□	□ntact	Abo□e Ceiling □iles on Plaster Ceiling	2□-□ec-16	□e□air or □e□o□e ASAP□ Maintain in □ □ M Plan		Veri□y Analytical □esults
□□x □□Maroon □loor □iles and associated Mastic	□anitor□s Closets	N□	□ntact	Assu□ed to be in other areas	2□-□ec-16	Maintain in □ □ M Plan		Veri□y Analytical □esults
□□x □□Light Bro□n □loor □iles and associated Mastic	Auditoriu□ Stage Area	N□	□ntact	Assu□ed to be co□ered by 12□x 12□□loor tile	2□-□ec-16	Maintain in □ □ M Plan		□e□orted as Enclosed
□□x □□Bro□n □loor □iles and associated Mastic	Ca□eteria Stair□ell	N□	□ntact	Assu□ed to be co□ered by 12□x 12□□loor tile	2□-□ec-16	Maintain in □ □ M Plan		Not obser□ed - Veri□y re□o□al
3□□ □ □S□Pi□e □un	□itchen Area Storage □oo□ and Bathroo□	□	□a□aged	Material is located abo□e ceiling tiles	2□-□ec-16	□e□air or □e□o□e ASAP□ Maintain in □ □ M Plan		Veri□y Analytical □esults
□ire □oors	□hroughout the building	□	□ntact	None	2□-□ec-16	Maintain in □ □ M Plan		Veri□y Analytical □esults
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS THAT WERE NOT IDENTIFIED/OBSERVED BY ECS FROM NOVEMBER 13, 2013 SURVEY								
Vibration □a□□er	□oo□ 5 in □indergarten □ ing	□	N□A	□his □aterial is re□orted as ACM□ho□e□er it □as not obser□ed in this area.	2□-□ec-16	Maintain in □ □ M Plan		Veri□y Analytical □esults
□□x □□Maroon □loor □iles and associated Mastic	Auditoriu□ □nder Seats, Ca□eteria, and Stair□ell Leading to Stage	N□	N□A	Car□et tiles □ere obser□ed in Auditoriu□ □nder Seats and Stair□ell Leading to Stage. 12□x 12□□loor tile □as obser□ed in the ca□eteria.	2□-□ec-16	□e□o□e □ro□ □ □ M □ending □eri□ication o□ re□o□al		Not obser□ed - Veri□y re□o□al
□□x □□Bro□n □loor □iles and associated Mastic	Ca□eteria Stair□ell	N□	N□A	□his □aterial is re□orted as ACM□ho□e□er it □as not obser□ed in this area. 12□x 12□ □loor tile □as obser□ed in this area.	2□-□ec-16	Maintain in □ □ M Plan □e□o□e or Enclose ASAP		Not obser□ed - Veri□y re□o□al
□□x □□Blac□ □loor □iles and associated Mastic	□itchen Storage roo□	N□	N□A	□his □aterial is re□orted as ACM□ho□e□er it □as not obser□ed in this area. Cera□ic □oor tile □as obser□ed in this area.	2□-□ec-16	□e□o□e □ro□ □ □ M □ending □eri□ication o□ re□o□al		Not obser□ed - Veri□y re□o□al
12□x 12□□loor □iles and associated Mastic □Various Colors□	□hroughout the building	N□	N□A	□his □aterial is re□orted as PACM□ho□e□er it □as not obser□ed in this area.	2□-□ec-16	Maintain in □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
□extured Ceiling	Stage	□	N□A	□his □aterial is re□orted as PACM□ho□e□er it □as not obser□ed in this area.	2□-□ec-16	Maintain in □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
□S□Mudded Elbo□s	□indergarten □ ing	□	N□A	□his □aterial is re□orted as PACM□ho□e□er it □as not obser□ed in this area.	2□-□ec-16	Maintain in □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
□ncinerator	By □oo□ 26	□	N□A	□his □aterial is re□orted as PACM□ho□e□er it □as not obser□ed in this area.	2□-□ec-16	Maintain in □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed

CHARLES BARRETT ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
ASBESTOS CONTAINING MATERIALS REPORTED BY ECS IN PROJECT NO. 01:18165 ON JUNE 19, 2011								
12□x 12□□ hite □loor □ile □ith Bro□n Strea□s and Blac□Mastic	1st □loor Ele□ator Lobby	N□	N□A	□his □aterial □ay be □resent in other areas	2□-□ec-16	Maintain in □ □ M Plan		Asbestos: □loor □ile - 2□ Chrysotile Mastic - 4□ Chrysotile
□ello□ □Blac□Mastic associated □ith 12□x 12□□ hite □loor □ile □ith □rey Strea□s	1st □loor Ele□ator Lobby□Closet	N□	N□A	□his □aterial □ay be □resent in other areas	2□-□ec-16	Maintain in □ □ M Plan		Asbestos: Mastic - 3□ Chrysotile
2□x 2□Pinhole □issure Ceiling □ile	Pre-□ □all□ay	N□	N□A	Not □bser□ed, □his □aterial □ay be □resent in other areas	2□-□ec-16	Maintain in □ □ M Plan		Asbestos: □ile - □1□ Chrysotile
1□Blac□Exterior □ indo□ Sealant	Exterior □ indo□ o□□□ Ser□er □oo□	N□	N□A	□his □aterial □ay be □resent in other areas	2□-□ec-16	Maintain in □ □ M Plan		Asbestos: 20□ Chrysotile
MATERIALS ASSUMED TO CONTAIN ASBESTOS								
□extured Ceiling	□oo□ 40 □Abo□e the Sus□ended Ceiling□	□	N□A	□his □aterial □as not accessible due to the height o□the ceiling abo□e the sus□ended ceiling	2□-□ec-16	Maintain in □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
□ indo□ and □oor Caul□s	□hroughout the building	N□	□ntact	Various ty□es o□caul□ □ere sa□ □led as NA□ by ECS.	2□-□ec-16	□e□o□ed □ro□ □ □ M Plan		None
Plaster □ alls	□hroughout the building	□	□ntact	Sa□ □led as NA□ in Base□ent □oyer, Ca□eteria, Stage and □oo□s 6 , 8, and 38	2□-□ec-16	□e□o□ed □ro□ □ □ M Plan		None
□□x □□□loor □iles and associated Mastic	□anitor□s Closet by □oo□ 40	N□	□ntact	PACM until tested□Assu□ed to be co□ered by 12□x 12□□loor tile.	2□-□ec-16	Maintain in □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
□ry□all and □oint Co□ □ound	□hroughout the building	N□	□ntact	Sa□ □led as NA□ in □all□ay to Ca□eteria and □VAC □oo□ on 1st □loor by ECS	2□-□ec-16	□e□o□ed □ro□ □ □ M Plan		None
1□x 1□Ceiling □iles and associated Mastic	□all□ay to Music □oo□	N□	□ntact	PACM until tested	2□-□ec-16	Maintain in □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
4□Co□e Base and associated Mastic	□hroughout the building	N□	□ntact	Various ty□es o□co□e base and associated □astic □ere sa□ □led as NA□ by ECS.	2□-□ec-16	□e□o□ed □ro□ □ □ M Plan		None
2□x 4□Ceiling □iles	□hroughout the building	N□	□ntact	Various ty□es o□2□x 4□ceiling tiles □ere sa□ □led as NA□ by ECS.	2□-□ec-16	□e□o□ed □ro□ □ □ M Plan		None
□ray Sin□ □nderlay□ent Mastic	□indergarten □ ing	N□	□ntact	Sa□ □led as NA□ in □indergarten Co□ □on Area and □oo□ 3 by ECS	2□-□ec-16	□e□o□ed □ro□ □ □ M Plan		None
Electrical □ ire □Cloth□	Stage	□	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
□y□su□ Board □oo□	□hroughout the Building	N□	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
Blac□Stair □read and associated Mastic	Ca□eteria Stair□ell	N□	□ntact	PACM until tested	2□-□ec-16	Maintain in □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
Pi□e □lange □as□ets	□hroughout the Building	□n□no□n	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed

CHARLES BARRETT ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
Electrical Panels: Asbestos Ce□ent Co□ □onents	Mechanical □oo□s	N□	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
□her□al Syste□ □nsulation	□hroughout building behind Solid □ alls and Ceiling	□	Not □bser□ed	PACM □ntil □ested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
□loor □elt under □ ood □looring	Stage, □hroughout the Building	N□	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
Mirror Mastic	Bathroo□s	N□	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
Chal□boards and associated Mastics	Classroo□s	N□	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
□nterior Pi□e □ ra□ associated □ith □ ater □ountains and □adiators	□hroughout the Building	□	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
Ce□ent Boards behind □adiators	□hroughout the Building	N□	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
□ ater□roo□ing Me□ branes□Mastics	Behind □nterior □inishes, Exterior Veneer and□or Subgrade □ alls, and □nder Cera□ ic □looring	N□	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
As□halt-Based □oo□ing Material and Caul□s□Sealants	□oo□	N□	□ntact	PACM until tested	2□-□ec-16	Add to □ □ M Plan		Sa□ □le i□□ro□osed to be disturbed
NON-ASBESTOS CONTAINING MATERIALS REPORTED BY ECS IN PROJECT NO. 01:18165 ON JUNE 19, 2011								
12□x 12□□ hite □loor □ile □ith □rey Strea□s	1st □loor Ele□ator Lobby□Closet	N□	N□A	□he □astic associated □it this □aterial is ACM, and is listed as such in the corres□onding section o□this table.	N□A	N□A	N□A	□loor □ile - NA□
4□Blac□Co□e base □ith Crea□ Mastic	1st □loor Ele□ator Lobby	N□A	N□A	N□A	N□A	N□A	N□A	Co□e base - NA□ Mastic - NA□
6□Blac□Co□e base □ith □ hite Mastic	1st □loor Ele□ator Lobby	N□A	N□A	N□A	N□A	N□A	N□A	Co□e base - NA□ Mastic - NA□
□ry□all □ allboard	1st □loor Ele□ator Lobby	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□ry□all □oint Co□ □ound	1st □loor Ele□ator Lobby	N□A	N□A	N□A	N□A	N□A	N□A	NA□
12□x 12□□ hite □loor □ile □ith Pin□Blue Strea□s and □ello□ Mastic	1st □loor Ele□ator Lobby	N□A	N□A	N□A	N□A	N□A	N□A	□loor □ile - NA□ Mastic - NA□
1□x 1□□exture Print Ceiling □ile	1st □loor Ele□ator Lobby□Closet	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□extured □ all Coating	□□ Ser□er □oo□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
Plaster □ all	□□ Ser□er □oo□	N□A	N□A	N□A	N□A	N□A	N□A	S□□ Coat - NA□ □ough Coat - NA□
2□x 2□Pinhole Punch □issure Ceiling □ile	□□ Ser□er □oo□	N□A	N□A	N□A	N□A	N□A	N□A	NA□

CHARLES BARRETT ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
Ceiling Plaster	□ Ser□er □oo□	N□A	N□A	N□A	N□A	N□A	N□A	S□□ Coat - NA□ □ough Coat - NA□
□ello□ Car□et Mastic	□ Ser□er □oo□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
12□x 12□□ hite □loor □ile □ith Blue Strea□s and □ello□ Blac□Mastic	□ Ser□er □oo□	N□A	N□A	N□A	N□A	N□A	N□A	□loor □ile - NA□ Mastic - NA□
NON-ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN NOVEMBER 13, 2013 SURVEY								
□reen □nterior □ indo□ Caul□	□oo□ 3, 13, and 40	N□A	N□A	N□A	N□A	N□A	N□A	NA□
Blac□ □nterior □oor Caul□	Exit □oors 4 and 12 and the Main Entrance □oor	N□A	N□A	N□A	N□A	N□A	N□A	NA□
Plaster Ceiling□ □ alls	Base□ ent □oyer, Ca□eteria, Stage and □oo□s 6 , 8, and 38	N□A	N□A	N□A	N□A	N□A	N□A	□inish - NA□ Base - NA□
□ hite Sin□ □ndercoat	□oo□ 26	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□ry□all □ allboard	□all□ay to Ca□eteria and □VAC □oo□ on 1st □loor	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□oint Co□ □ound	□all□ay to Ca□eteria and □VAC □oo□ on 1st □loor	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□rey Sin□ □ndercoat	□indergarten Co□ □on Area and □oo□ 3	N□A	N□A	N□A	N□A	N□A	N□A	NA□
Beige Mastic on Metal □uct	□VAC □oo□ on 1st □loor	N□A	N□A	N□A	N□A	N□A	N□A	NA□
Bro□n Mastic associated □ith □nterior □ indo□ Casing	Boiler □oo□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
Blac□ □nterior □ indo□ Caul□	Boiler □oo□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□rey □nterior □ indo□ □la□ing	Boiler □oo□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□ hite □nterior □oor Caul□	Boiler □oo□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□ hite Pi□e Bridging Mastic	Boiler □oo□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
Plaster Ceiling □ith Blac□ □ ater□roo□ing	Boiler □oo□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
Bro□n Stair □read and associated Bro□n Mastic	Stair Landing to Boiler □oo□	N□A	N□A	N□A	N□A	N□A	N□A	Stair □read - NA□ Mastic - NA□
12□x 12□□ □□ hite □ith Bro□n□ hite □lec□s □loor □ile	Stair Landing to Boiler □oo□	N□A	N□A	N□A	N□A	N□A	N□A	□loor □ile - NA□ Mastic - NA□
2□x 4□□ hite Pinhole□issured Ceiling □ile	Base□ ent □oyer, 1st □loor □all□ay, and Secondary Boo□ □oo□ on 2nd □loor	N□A	N□A	N□A	N□A	N□A	N□A	NA□
2□x 2□□ hite □issured Ceiling □ile	□all□ay to Ca□eteria, 2nd □loor □all□ay, and Clinic □oo□ 8	N□A	N□A	N□A	N□A	N□A	N□A	NA□

CHARLES BARRETT ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
□ hite □extured Plaster □ all	Base□ ent □estroo□s	N□A	N□A	N□A	N□A	N□A	N□A	□exture - NA□ Plaster - NA□
□ hite □extured Plaster Ceiling	□itchen Bathroo□	N□A	N□A	N□A	N□A	N□A	N□A	□exture - NA□ Plaster - NA□
4□Pi□e □itting □S□	Closet in □indergarten □oo□s 1, 2, and 3	N□A	N□A	N□A	N□A	N□A	N□A	□ ra□Mastic - NA□ □nsulation - NA□
Bro□n □ all Board	□indergarten Co□ □on Area □behind Sin□Cabinet□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
1□x 1□□ray □□ hite Painted□ □extured Ceiling □ile	□a□ □to □indergarten Area	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□loor □ile under 12□x 12□□loor □ile	1st, 2nd, and 3rd □loor □all□ays	N□A	N□A	N□A	N□A	N□A	N□A	Mastic - NA□ □loor □ile - NA□ Mastic - NA□
□ray Mastic on Metal □uct	2nd, 3rd, and 4th □loor □all□ays □abo□e □ro□ Ceiling□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
2□x 4□□ hite 2□x 2□Sha□ed □issured Ceiling □ile	□oo□ 38 on the 2nd □loor	N□A	N□A	N□A	N□A	N□A	N□A	NA□
NON-ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN DECEMBER 29, 2016 SURVEY								
□ray □iberboard □ all Panel	1st □loor □indergarten □all□ay	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□esidual Bro□n Co□e base Mastic on Bric□ □ all	1st □loor □indergarten □all□ay	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□ray □Mudded□Pi□e □itting □nsulation	1st □loor □indergarten □all□ay	N□A	N□A	N□A	N□A	N□A	N□A	□ ra□ - NA□ □nsulation - NA□
Cor□□ all Panel and associated Blac□Mastic	1st □loor Auditoriu□ Entrance	N□A	N□A	N□A	N□A	N□A	N□A	Cor□- NA□ Mastic - NA□
□ all □exture	1st □loor Pri□ary Boo□ □oo□, 2nd □loor □all□ay, and 1st □loor Auditoriu□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□ hite Cera□ ic Chair □ail Caul□	1st □loor □all□ay to Ca□eteria	N□A	N□A	N□A	N□A	N□A	N□A	NA□
□ hite □oor Caul□	1st □loor Main □ □ice and 2nd □loor □oo□ 31	N□A	N□A	N□A	N□A	N□A	N□A	NA□
12□x 12□□ray Line Patterned □loor □ile □ith Crea□ Mastic and □ray Le□eling Co□ □ound	1st □loor Addition Lobby by Bathroo□s	N□A	N□A	N□A	N□A	N□A	N□A	□ile - NA□ Mastic□Le□eling Co□ □ound - NA□
4□Li□e □reen Co□e base and Crea□ Mastic	1st □loor Addition Lobby by Bathroo□s	N□A	N□A	N□A	N□A	N□A	N□A	Co□e base - NA□ Mastic - NA□
12□x 12□□reen Mottled □loor □ile □ith associated □ello□ Mastic	□round □loor □all by □oo□ 1□	N□A	N□A	N□A	N□A	N□A	N□A	□ile - NA□ Mastic - NA□
12□x 12□□ello□ □eathered □loor □ile	□round □loor □all by □oo□ 1□	N□A	N□A	N□A	N□A	N□A	N□A	NA□
12□x 12□Blue □eathered □loor □ile □ith □ello□ Mastic	□round □loor □all by □oo□ 1□	N□A	N□A	N□A	N□A	N□A	N□A	□ile - NA□ Mastic - NA□
12□x 12□Crea□ □eathered □loor □ile □ith □ello□ Mastic	□round □loor □all by □oo□ 1□	N□A	N□A	N□A	N□A	N□A	N□A	□ile - NA□ Mastic - NA□
12□x 12□□ hite □ith Blac□Strea□s □loor □ile	□round □loor □all by □oo□ 1□	N□A	N□A	N□A	N□A	N□A	N□A	NA□

Notes: □ □ □riable□N□ □ Non-□riable□PACM □ Presu□ed Asbestos Containing Material□□ □ M Plan □ □ □erations and Maintenance Plan□NA□ □ No Asbestos □etected.

APPENDIX A

PREVIOUS REPORTS



LIMITED ASBESTOS MATERIALS CONTAINING SURVEY
CHARLES BARRETT ELEMENTARY SCHOOL
CAPACITY WORK
1115 MARTHA CUSTIS DRIVE
ALEXANDRIA, VIRGINIA

ECS PROJECT NO. 01:18165

FOR

HITT CONTRACTING, INC.

JUNE 19, 2011

June 19, 2011

Mr. Christopher Malone
HITT Contracting, Inc.
2900 Fairview Park Drive
Falls Church, Virginia 22042
cmalone@hitt-gc.com

ECS Project No. 01:18165

Reference: Limited Asbestos Containing Materials Survey – Capacity Work, Charles Barrett Elementary School, 1115 Martha Custis Drive, Alexandria, Virginia

Dear Mr. Malone:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide HITT Contracting, Inc. with the results of the Limited Asbestos Containing Materials Survey for the above referenced property. This assessment was performed in general conformance with ECS Proposal No. 01:37612-EP, dated June 10, 2011. The following is a summary of results of the above referenced work. The on-site assessment work was performed on June 13, 2011.

SITE DESCRIPTION

The subject building consists of an existing school structure. Renovation activities within three areas are proposed for the existing school. The areas of disturbance are proposed for the following areas: a wall within the pre-K hallway; removal of a window and wall within the IT Server room; and removal of a closet area within the 1st floor elevator lobby. The elevator lobby area and the IT Server room are adjacent.

The building materials observed consisted of multiple floor tile layers, carpeting, drywall wallboard systems and associated joint compound, plaster wall and ceiling boards, drop ceiling tiles, vinyl cove base, and ceramic wall tiles. The survey was limited to the areas and building materials proposed for disturbance. The roofing systems are not proposed for disturbance and therefore, were not included within the survey.

During the assessment, ECS attempted to access suspect-asbestos containing building materials proposed for disturbance. However, due to the destructive means required to access materials, certain areas (i.e., sub-grade sealants, flooring located below underlayments, areas behind walls, pipe chases, vapor barriers, etc.) were deemed inaccessible and were not assessed.

Asbestos Survey Methods and Results

The non-invasive asbestos assessment was performed by a Virginia licensed asbestos inspector. Samples of suspect asbestos-containing materials (ACMs) were collected utilizing hand tools and placed into individual, labeled plastic bags. A total of forty-eight (48) unique suspect ACM samples were sent to Scientific Analytical Institute, Inc. (SAI) in Greensboro, North Carolina for analysis via Polarized Light Microscopy 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. A minimum of three samples for each unique material were submitted. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis. In total, sixty-four (64) layers were analyzed.

Table 1 below summarizes the sampled materials detected to contain asbestos. A list of the materials sampled and analyzed for asbestos content is located in Table 2 attached to this report.

Table 1
Materials Containing Asbestos

Material Location	Material Description	Asbestos Content	Friability
1st Floor Elevator Lobby Area	12” x 12” White Floor Tile with Tan Streaks and Black Mastic	Tile – 2% Chrysotile Mastic – 4% Chrysotile	Category I Non-Friable
1st Floor Elevator Lobby Area	Black Mastic Associated with 12” x 12” White Floor Tile with Gray Streaks	Mastic –3% Chrysotile	Category I Non-Friable
Pre-K Hallway	2’ x 2’ White Pinhole Fissure Ceiling Tile	Tile - <1% Chrysotile	Friable
Exterior Window of the IT Server Room	1” Black Exterior Window Sealant	Sealant – 20% Chrysotile	Category II Non-Friable

Asbestos was detected within the 12” x 12” white floor tile with tan streaks and associated black mastic located within the area of the 1st floor elevator lobby. The floor is located beneath newer 12” x 12” floor tile and is also located within the closet and IT Server room. The flooring was observed to cover approximately 540 sf of area.

The black mastic associated with the 12" x 12" white floor tile with gray streaks was obtained from the closet area of the 1st floor elevator and was reported to contain asbestos. The black mastic is assumed to be similar to that associated with the 12" x 12" white floor tile with tan streaks referenced above.

The 2' x 2' pinhole fissure white ceiling tile was located within the pre-K hallway and was reported to contain asbestos. The material was estimated at approximately 20 sf of ceiling tile located along the wall proposed for disturbance.

The 1" black exterior sealant from the exterior window located outside of the IT Server room was reported to contain asbestos. The material was observed at two of the windows proposed for disturbance. The sealant along two of the windows estimates to approximately 40 linear feet (LF).

Recommendations

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

Federal, state, and local regulations require asbestos-containing materials be removed prior to disturbance by either renovations or demolishing the buildings. If asbestos-containing materials are to be removed a licensed Project Monitor should monitor the project daily. This involves collecting air samples from within and outside abatement work areas to evaluate the abatement contractor's work practices to prevent asbestos fiber release from within the work area. The project monitor should inform the building owner if the asbestos abatement contractor is not performing his work in accordance with project specifications, state, local, and federal regulations. The project monitor should assess each work area to monitor the removal of specified asbestos-containing materials. Only after the monitor has determined the identified ACMs have been removed should final clearance air samples be collected. A Virginia licensed Clearance Air Monitor must collect samples for final clearance.

OSHA considers the 2' x 2' white pinhole fissure ceiling tile with <1% reported asbestos content to be asbestos containing under 29 CFR 1926.1101 and as such any workers disturbing this material will need to comply with OSHA regulations for asbestos.

Asbestos-containing materials should be removed prior to renovation activities. A lead-based paint survey of the areas proposed for renovation should also be performed prior to renovation activities in order to comply with the EPA Renovating, Repair, and Painting (RRP) Rule which went into effect on April 22, 2010. Asbestos-containing materials, lead-based paint, and/or other hazardous or universal waste materials may be present in inaccessible portions of the buildings. Contractors performing demolition should be made

aware that unknown materials of this type may be present within the buildings and my not be discovered until the demolition or re-construction activities commence.

Prior to demolition/renovation of the building, it is recommended that a project specification be developed to delineate and quantify known and suspect ACMs in the buildings and to outline proper procedures for the abatement. A licensed Project Monitor is also recommended to be retained to monitor any abatement activities and conduct clearance sampling in accordance with Commonwealth of Virginia regulations. ECS can provide these services for an additional fee if requested.

If additional suspect asbestos-containing materials are uncovered during renovation efforts which were not accessible during this Assessment, or if renovation work impacts areas or materials not covered under this Assessment, it is recommended that these materials/areas be sampled for asbestos content in accordance with 29 CFR 1926.1101.

Closing

This report summarizes our evaluation of the conditions observed at the site. The findings prepared by ECS are based upon our observations and analysis of the samples collected at the time of this survey. Any conditions discovered which deviate from the data contained in this report should be presented to us for our evaluation.

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

All 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 other 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 addressee. 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 the addressee. The use of this report by any undesignated third party or parties will be at such party's sole risk and ECS disclaims liability for any such third party use or reliance.

ECS appreciates the opportunity to provide our microbial work plan services for this project. If you have any questions or if we may be of further service, please contact us at 703-471-8400.

Sincerely,

ECS MID-ATLANTIC, LLC

Beverly E. Sedon
Senior Environmental Scientist

Stephen R. Geraci
Senior Environmental Scientist

cc: Clint Wright, HITT Contracting, Inc., cwright@hitt-gc.com

Enclosures:

Table 2 - Asbestos Sampling Results
Laboratory Analytical Results
Photographs

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample Number	Sampling Location	Material/Description	Analytical Results
1	1st Floor Elevator Lobby	4" Black Cove Base with Cream Mastic	Base – NAD Mastic - NAD
2	1st Floor Elevator Lobby	4" Black Cove Base with Cream Mastic	Base – NAD Mastic - NAD
3	1st Floor Elevator Lobby	4" Black Cove Base with Cream Mastic	Base – NAD Mastic - NAD
4	1st Floor Elevator Lobby	6" Black Cove Base with White Mastic	Base – NAD Mastic - NAD
5	1st Floor Elevator Lobby	6" Black Cove Base with White Mastic	Base – NAD Mastic - NAD
6	1st Floor Elevator Lobby	6" Black Cove Base with White Mastic	Base – NAD Mastic - NAD
7	1st Floor Elevator Lobby	Drywall Wallboard	NAD
8	1st Floor Elevator Lobby	Drywall Wallboard	NAD
9	1st Floor Elevator Lobby	Drywall Wallboard	NAD
10	1st Floor Elevator Lobby	Drywall Joint Compound	NAD
11	1st Floor Elevator Lobby	Drywall Joint Compound	NAD
12	1st Floor Elevator Lobby	Drywall Joint Compound	NAD
13	1st Floor Elevator Lobby	12" x 12" White Floor Tile with Brown Streaks and Black Mastic	Tile – 2% Chrysotile Mastic – 4% Chrysotile
14	1st Floor Elevator Lobby	12" x 12" White Floor Tile with Brown Streaks and Black Mastic	Positive Stop – Not Analyzed
15	1st Floor Elevator Lobby	12" x 12" White Floor Tile with Brown Streaks and Black Mastic	Positive Stop – Not Analyzed
16	1st Floor Elevator Lobby/Closet	12" x 12" White Floor Tile with pink/Blue Streaks and Yellow Mastic	Tile – NAD Mastic - NAD
17	1st Floor Elevator Lobby/Closet	12" x 12" White Floor Tile with pink/Blue Streaks and Yellow Mastic	Tile – NAD Mastic - NAD

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample Number	Sampling Location	Material/Description	Analytical Results
18	1st Floor Elevator Lobby/Closet	12" x 12" White Floor Tile with pink/Blue Streaks and Yellow Mastic	Tile – NAD Mastic - NAD
19	1st Floor Elevator Lobby/Closet	12" x 12" White Floor Tile with Gray Streaks and Yellow/Black Mastic	Tile – NAD Mastic – 3% Chrysotile
20	1st Floor Elevator Lobby/Closet	12" x 12" White Floor Tile with Gray Streaks and Yellow/Black Mastic	Tile – NAD Mastic – Positive Stop Not Analyzed
21	1st Floor Elevator Lobby/Closet	12" x 12" White Floor Tile with Gray Streaks and Yellow/Black Mastic	Tile – NAD Mastic – Positive Stop Not Analyzed
22	1st Floor Elevator Lobby/Closet	1' x 1' Texture Print Ceiling Tile	NAD
23	1st Floor Elevator Lobby/Closet	1' x 1' Texture Print Ceiling Tile	NAD
24	1st Floor Elevator Lobby/Closet	1' x 1' Texture Print Ceiling Tile	NAD
25	IT Server Room	Textured Wall Coating	NAD
26	IT Server Room	Textured Wall Coating	NAD
27	IT Server Room	Textured Wall Coating	NAD
28	IT Server Room	Plaster Wall	Skim Coat – NAD Rough Coat - NAD
29	IT Server Room	Plaster Wall	Skim Coat – NAD Rough Coat - NAD
30	IT Server Room	Plaster Wall	Skim Coat – NAD Rough Coat - NAD
31	IT Server Room	2' x 2' Pinhole Punch Fissure Ceiling Tile	NAD
32	IT Server Room	2' x 2' Pinhole Punch Fissure Ceiling Tile	NAD
33	IT Server Room	2' x 2' Pinhole Punch Fissure Ceiling Tile	NAD
34	IT Server Room	Ceiling Plaster	Skim Coat – NAD Rough Coat - NAD

TABLE 2
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample Number	Sampling Location	Material/Description	Analytical Results
35	IT Server Room	Ceiling Plaster	Skim Coat – NAD Rough Coat - NAD Skim
36	IT Server Room	Ceiling Plaster	Coat – NAD Rough Coat - NAD
37	IT Server Room	Yellow Carpet Mastic	NAD
38	IT Server Room	Yellow Carpet Mastic	NAD
39	IT Server Room	Yellow Carpet Mastic	NAD
40	Pre-K Hallway	2’ x 2’ Pinhole Fissure Ceiling Tile	Tile - <1% Asbestos
41	Pre-K Hallway	2’ x 2’ Pinhole Fissure Ceiling Tile	Tile - <1% Asbestos
42	Pre-K Hallway	2’ x 2’ Pinhole Fissure Ceiling Tile	Tile - <1% Asbestos
43	Pre-K Hallway	12” x 12” White Floor Tile with Blue Streaks and Yellow/Black Mastics	Tile – NAD Mastic - NAD
44	Pre-K Hallway	12” x 12” White Floor Tile with Blue Streaks and Yellow/Black Mastics	Tile – NAD Mastic - NAD
45	Pre-K Hallway	12” x 12” White Floor Tile with Blue Streaks and Yellow/Black Mastics	Tile – NAD Mastic - NAD
46	Exterior Window of IT Server Room	1” Black Exterior Window Sealant	Sealant – 20% Chrysotile
47	Exterior Window of IT Server Room	1” Black Exterior Window Sealant	Positive Stop Not Analyzed
48	Exterior Window of IT Server Room	1” Black Exterior Window Sealant	Positive Stop Not Analyzed

Notes: * Laboratory unable to separate layers; NAD – No Asbestos Detected

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400

Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-Cove Base *191105621-0001*	4" BLK COVE BASE W/ CREAM MSTC	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
1-Mastic *191105621-0001A*	4" BLK COVE BASE W/ CREAM MSTC	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
2-Cove Base *191105621-0002*	4" BLK COVE BASE W/ CREAM MSTC	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
2-Mastic *191105621-0002A*	4" BLK COVE BASE W/ CREAM MSTC	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
3-Cove Base *191105621-0003*	4" BLK COVE BASE W/ CREAM MSTC	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
3-Mastic *191105621-0003A*	4" BLK COVE BASE W/ CREAM MSTC	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400

Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
4-Cove Base *191105621-0004*	6" BLK COVE BASE W/ WHT MSTC	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
4-Mastic *191105621-0004A*	6" BLK COVE BASE W/ WHT MSTC	White Non-Fibrous Heterogeneous		80% Non-fibrous (other) 20% Mica	**None Detected**
5-Cove Base *191105621-0005*	6" BLK COVE BASE W/ WHT MSTC	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
5-Mastic *191105621-0005A*	6" BLK COVE BASE W/ WHT MSTC	White Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Mica	**None Detected**
6-Cove Base *191105621-0006*	6" BLK COVE BASE W/ WHT MSTC	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
6-Mastic *191105621-0006A*	6" BLK COVE BASE W/ WHT MSTC	White Non-Fibrous Heterogeneous		88% Non-fibrous (other) 12% Mica	**None Detected**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400

Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
7 *191105621-0007*	DRYWALL	Tan/Beige Fibrous Heterogeneous	40% drywall only	Cellulose	0% 60%	Non-fibrous (other) Gypsum	**None Detected**
8 *191105621-0008*	DRYWALL	Tan/Beige Fibrous Heterogeneous	30% drywall only	Cellulose	10% 60%	Non-fibrous (other) Gypsum	**None Detected**
9 *191105621-0009*	DRYWALL	Tan/Beige Fibrous Heterogeneous	25% drywall only	Cellulose	25% 50%	Non-fibrous (other) Gypsum	**None Detected**
10 *191105621-0010*	DRYWALL JOINT CMPD	White Non-Fibrous Heterogeneous			88% 12%	Non-fibrous (other) Mica	**None Detected**
11 *191105621-0011*	DRYWALL JOINT CMPD	White Non-Fibrous Heterogeneous			85% 15%	Non-fibrous (other) Mica	**None Detected**
12 *191105621-0012*	DRYWALL JOINT CMPD	White Non-Fibrous Heterogeneous			90% 10%	Non-fibrous (other) Mica	**None Detected**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400
Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
13-Floor Tile *191105621-0013*	12X12 WHT W/ TAN FT W/ BLK MSTC	White Non-Fibrous Heterogeneous		98% Non-fibrous (other)	**2% Chrysotile**
13-Mastic *191105621-0013A*	12X12 WHT W/ TAN FT W/ BLK MSTC	Black Non-Fibrous Heterogeneous		96% Non-fibrous (other)	**4% Chrysotile**
14-Floor Tile *191105621-0014*	12X12 WHT W/ TAN FT W/ BLK MSTC				**Stop Positive (Not Analyzed)**
14-Mastic *191105621-0014A*	12X12 WHT W/ TAN FT W/ BLK MSTC				**Stop Positive (Not Analyzed)**
15-Floor Tile *191105621-0015*	12X12 WHT W/ TAN FT W/ BLK MSTC				**Stop Positive (Not Analyzed)**
15-Mastic *191105621-0015A*	12X12 WHT W/ TAN FT W/ BLK MSTC				**Stop Positive (Not Analyzed)**
16-Floor Tile *191105621-0016*	12X12 WHT W/ PINK/BLUE FT W/ YELLOW MSTC	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400

Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
16-Mastic *191105621-0016A*	12X12 WHT W/ PINK/BLUE FT W/ YELLOW MSTC	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
17-Floor Tile *191105621-0017*	12X12 WHT W/ PINK/BLUE FT W/ YELLOW MSTC	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
17-Mastic *191105621-0017A*	12X12 WHT W/ PINK/BLUE FT W/ YELLOW MSTC	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
18-Floor Tile *191105621-0018*	12X12 WHT W/ PINK/BLUE FT W/ YELLOW MSTC	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
18-Mastic *191105621-0018A*	12X12 WHT W/ PINK/BLUE FT W/ YELLOW MSTC	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
19-Floor Tile *191105621-0019*	12X12 WHT/GRAY FT W/ YELLOW/BLK MSTC	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400
Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
19-Mastic *191105621-0019A*	12X12 WHT/GRAY FT W/ YELLOW/BLK MSTC	Black/Yellow Non-Fibrous Heterogeneous			97% Non-fibrous (other)	**3% Chrysotile**
20-Floor Tile *191105621-0020*	12X12 WHT/GRAY FT W/ YELLOW/BLK MSTC	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
20-Mastic *191105621-0020A*	12X12 WHT/GRAY FT W/ YELLOW/BLK MSTC					**Stop Positive (Not Analyzed)**
21-Floor Tile *191105621-0021*	12X12 WHT/GRAY FT W/ YELLOW/BLK MSTC	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
21-Mastic *191105621-0021A*	12X12 WHT/GRAY FT W/ YELLOW/BLK MSTC					**Stop Positive (Not Analyzed)**
22 *191105621-0022*	1X1 1 TEXT PRINT CT	White Fibrous Heterogeneous	15% 75%	Cellulose Glass	10% Non-fibrous (other)	**None Detected**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400

Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
23 *191105621-0023*	1X1 1 TEXT PRINT CT	White Fibrous Heterogeneous	70% 12%	Glass Cellulose	18%	Non-fibrous (other)	**None Detected**
24 *191105621-0024*	1X1 1 TEXT PRINT CT	White Fibrous Heterogeneous	20% 50%	Cellulose Glass	30%	Non-fibrous (other)	**None Detected**
25 *191105621-0025*	TEXT WALL COATING	Beige Non-Fibrous Heterogeneous	5%	Cellulose	20% 25% 50%	Non-fibrous (other) Perlite Gypsum	**None Detected**
26 *191105621-0026*	TEXT WALL COATING	Brown/Gray Non-Fibrous Heterogeneous	2%	Cellulose	10% 70% 18%	Non-fibrous (other) Gypsum Perlite	**None Detected**
27 *191105621-0027*	TEXT WALL COATING	Brown/Gray Non-Fibrous Heterogeneous	3%	Cellulose	7% 30% 60%	Non-fibrous (other) Perlite Gypsum	**None Detected**
28-Skim Coat *191105621-0028*	PLASTER	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400
Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
28-Rough Coat *191105621-0028A*	PLASTER	Beige Non-Fibrous Heterogeneous			10% Non-fibrous (other) 75% Gypsum 15% Quartz	**None Detected**
29-Skim Coat *191105621-0029*	PLASTER	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
29-Rough Coat *191105621-0029A*	PLASTER	Beige Non-Fibrous Heterogeneous			10% Non-fibrous (other) 80% Gypsum 10% Quartz	**None Detected**
30-Skim Coat *191105621-0030*	PLASTER	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
30-Rough Coat *191105621-0030A*	PLASTER	Brown/Gray Non-Fibrous Heterogeneous	10% Cellulose		5% Non-fibrous (other) 85% Gypsum	**None Detected**
31 *191105621-0031*	2X2 PINHOLE PUNCH FISSURE CT	Brown Fibrous Heterogeneous	70% Cellulose 10% Glass		0% Non-fibrous (other) 20% Perlite	**None Detected**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400

Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
32 *191105621-0032*	2X2 PINHOLE PUNCH FISSURE CT	Brown Fibrous Heterogeneous	60% 10%	Cellulose Glass	10% 20%	Non-fibrous (other) Perlite	**None Detected**
33 *191105621-0033*	2X2 PINHOLE PUNCH FISSURE CT	Brown Fibrous Heterogeneous	50% 15%	Cellulose Glass	10% 25%	Non-fibrous (other) Perlite	**None Detected**
34-Skim Coat *191105621-0034*	CEIL PLSTR	White/Beige Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
34-Rough Coat *191105621-0034A*	CEIL PLSTR	Brown Non-Fibrous Heterogeneous	7%	Cellulose	3% 40% 50%	Non-fibrous (other) Mica Gypsum	**None Detected**
35-Skim Coat *191105621-0035*	CEIL PLSTR	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
35-Rough Coat *191105621-0035A*	CEIL PLSTR	Beige Non-Fibrous Heterogeneous			30% 70%	Non-fibrous (other) Gypsum	**None Detected**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400

Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
36-Skim Coat *191105621-0036*	CEIL PLSTR	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
36-Rough Coat *191105621-0036A*	CEIL PLSTR	Brown Non-Fibrous Heterogeneous		40% Non-fibrous (other) 60% Gypsum	**None Detected**
37 *191105621-0037*	YELLOW CARPET MSTC	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
38 *191105621-0038*	YELLOW CARPET MSTC	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
39 *191105621-0039*	YELLOW CARPET MSTC	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
40 *191105621-0040*	2X2 PINHOLE FISSURE CT	White/Pink Fibrous Heterogeneous	85% Glass suggest TEM	15% Non-fibrous (other)	**<1% Chrysotile**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400

Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
41 *191105621-0041*	2X2 PINHOLE FISSURE CT	White/Pink Fibrous Heterogeneous	90% Glass Suggest TEM		10% Non-fibrous (other)	**<1% Chrysotile**
42 *191105621-0042*	2X2 PINHOLE FISSURE CT	White/Pink Fibrous Heterogeneous	80% Glass Suggest TEM		20% Non-fibrous (other)	**<1% Chrysotile**
43-Floor Tile *191105621-0043*	12X12 WHT FT W/ BLUE FLECK W/ YELLOW/BLK MSTCS	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
43-Mastic *191105621-0043A*	12X12 WHT FT W/ BLUE FLECK W/ YELLOW/BLK MSTCS	Gray/Yellow Non-Fibrous Heterogeneous	3% Cellulose		97% Non-fibrous (other)	**None Detected**
44-Floor Tile *191105621-0044*	12X12 WHT FT W/ BLUE FLECK W/ YELLOW/BLK MSTCS	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Beverly Sedon**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Fax: Phone: (703) 471-8400

Project: **C. BARRETT/18165**

Customer ID: ECMA78
Customer PO: 18165
Received: 06/14/11 9:45 AM
EMSL Order: 191105621

EMSL Proj:
Analysis Date: 6/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
44-Mastic *191105621-0044A*	12X12 WHT FT W/ BLUE FLECK W/ YELLOW/BLK MSTCS	Gray/Yellow Non-Fibrous Heterogeneous	5%	Cellulose	95% Non-fibrous (other)	**None Detected**
45-Floor Tile *191105621-0045*	12X12 WHT FT W/ BLUE FLECK W/ YELLOW/BLK MSTCS	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
45-Mastic *191105621-0045A*	12X12 WHT FT W/ BLUE FLECK W/ YELLOW/BLK MSTCS	Gray/Yellow Non-Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	**None Detected**
46 *191105621-0046*	1" BLK EXT WINDOW SEALANT	Gray/Black Non-Fibrous Heterogeneous			80% Non-fibrous (other)	**20% Chrysotile**
47 *191105621-0047*	1" BLK EXT WINDOW SEALANT					**Stop Positive (Not Analyzed)**
48 *191105621-0048*	1" BLK EXT WINDOW SEALANT					**Stop Positive (Not Analyzed)**

Initial report from 06/17/2011 07:09:32

Analyst(s)

Emily Baker (64)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

THIS IS THE LAST PAGE OF THE REPORT.

Asbestos Lab Services Chain of Custody

EMSL Order Number *(Lab Use Only):* 191105621

EMSL ANALYTICAL, INC.

Corporate -
Westmont/Cinnaminson, NJ
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 858-4960

Company: ECS Mid-Atlantic, LLC	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 14026 Thunderbolt Place Suite 100	
City/State/Zip: Chantilly, VA 20151	
Report To (Name): Beverly Sedon	**Fax:**
Telephone: 703-471-8400	**Email Address:** bsedon@ecslimited.com
Project Name/Number: C. Barrett / 18165	
Please Provide Results: Email	**Purchase Order:** 18165 **State Samples Taken:** VA

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☒ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☒ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ EPA Protocol (Semi-Quantitative)
☐ EPA Protocol (Quantitative)

Other:
☐

OK per Beverly ox 6/14/11 LB

☒ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Beverly Sedon **Samplers Signature:** B. Sedon

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1	4" Black Cove Base w/ Cream Mastic		6/13
2	1		1
3	1		1
4	6" Black Cove Base w/ White Mastic		1
5	1		1
6	1		1
7	Drywall		1
8	1		1

Client Sample # (s): 1 - 8 **Total # of Samples:** 4/8

Relinquished (Client): B Sedon **Date:** 6/13/2011 **Time:** 3:19pm

Received (Lab): FED EX **Date:** 6/14/11 **Time:** 9:45Am

Comments/Special Instructions:

Controlled Document – Asbestos Lab Services COC – A1.0 – 11/23/2009

Page 1 of 4 Pages

Fed Track NO# 797198039747

18165

EMSL ANALYTICAL, INC.

Asbestos Lab Services Chain of Custody

EMSL Order Number *(Lab Use Only):*

191105621

Corporate -
Westmont/Cinnaminson, NJ
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 858-4960

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
9	"		6/13
10	Drywall Joint Compound		
11	"		
12	"		
13	12"X12" White w/Tan Floor Tile w/ Black Mastic		
14	"		
15	"		
16	12"X12" White w/ Pink/Blue Floor Tile w/ Yellow Mastic		
17	"		
18	"		
19	12"X12" White/Gray Floor Tile with Yellow & Black Mastic		
20	"		
21	"		
22	1'X1' text Print Ceiling Tile		
23	"		
24	"		

Comments/Special Instructions:

18165

EMSL ANALYTICAL, INC.

Asbestos Lab Services Chain of Custody

EMSL Order Number *(Lab Use Only):* 191105621

Corporate -
Westmont/Cinnaminson, NJ
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 858-4960

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
25	Text. Wall Coating		6/13
26	↓		
27	↓		
28	Plaster		
29	↓		
30	↓		
31	2'x2' Pinhole Punch Ceiling Tile Tissue		
32	↓		
33	↓		
34	Ceiling Plaster		
35	↓		
36	↓		
37	Yellow Carpet Mastic		
38	↓		
39	↓		

Comments/Special Instructions:

18165

EMSL ANALYTICAL, INC.

Asbestos Lab Services Chain of Custody

EMSL Order Number *(Lab Use Only):*

191105621

Corporate -
Westmont/Cinnaminson, NJ
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 858-4960

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
40	2'x2' Pinhole Fissure Ceiling Tile		6/13
41	"		"
42	"		"
43	12"x12" White Floor Tile w/ Blue Fleck with Yellow & Black Mastics		"
44	"		"
45	"		"
46	1" Black Exterior Window Sealant		"
47	"		
48	"		

Comments/Special Instructions:



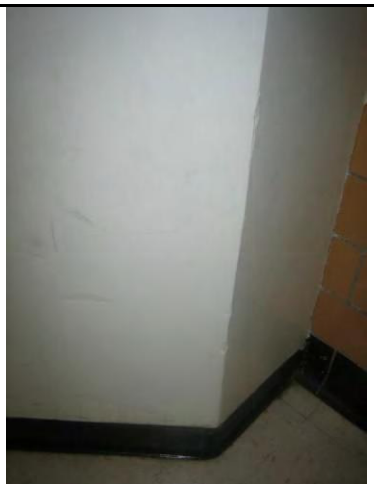
1. View of the 1st floor elevator lobby area.



2. View of the closet within the elevator lobby area.



3. View of the cove bases, Samples 1-6.



4. View of the drywall and joint compound typical of Samples 7-12.



5. View of the 12” x 12” white floor tile with tan streaks, Samples 13-15 and top layer of newer floor tile, Samples 16-18.



6. View of 12” x 12” white floor tile with gray streaks and black mastic, Samples 19-21.



7. View of 1’ x 1’ texture print ceiling tile, Samples 22-24.



8. View of the IT Server Room.



9. View of the textured wall coating and plaster, Samples 25-30.



10. View of the 2’ x 2 pinhole punch fissure ceiling tile, Samples 31-33.



11. View of the ceiling plaster above the drop ceiling tiles, Samples 34-36.



12. View of yellow carpet mastic, Samples 37-39.



13. View of the wall proposed for disturbance within the Pre-K Hallway.



14. View of the 2’ x 2’ pinhole fissure ceiling tile, Samples 40-42.



15. View of the 12” x 12” white floor tile with blue streaks, Samples 43-45.



16. View of the exterior wall of the Pre-K Hallway.



17. View of the windows exterior of the IT Server Room.



18. View of 1” black exterior window sealant, Samples 46-48.

CHARLES BARRETT ELEMENTARY 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 and Table 2 of ECS Project No. 01:18165, report dated June 19, 2011.

TABLE 1
ASBESTOS-CONTAINING MATERIALS SUMMARY

Location	Material	Friability
REPORTED ON PRIOR SURVEYS		
Observed throughout the Building (Above Drop Ceiling Tiles in some Areas)	Brown Ceiling Mastic*	Category II Non-Friable
Janitor's Closets (Assumed in other Areas)	9" x 9" Maroon Floor Tiles and associated Mastic*	Category I Non-Friable
Auditorium Stage Area (Assumed under 12" x 12" Floor Tiles in other Areas)	9" x 9" Light Brown Floor Tiles and associated Mastic (assumed under 12" x 12" Floor Tile)	Category I Non-Friable
Cafeteria Stairwell (Assumed under 12" x 12" Floor Tiles in other Areas)	9" x 9" Brown Floor Tiles and associated Mastic (assumed under 12" x 12" Floor Tile)	Category I Non-Friable
Kitchen Area (Storage Room and Bathroom) (Assumed in other Areas)	TSI-3" OD Pipe Run	Friable
Hallways (Observed in other Areas)	Fire Door Insulation	Friable
REPORTED BY ECS IN REPORT No.01:18165, DATED JUNE 19, 2011		
1st Floor Elevator Lobby (Assumed in other Areas)	12" x 12" White Floor Tile with Brown Streaks and Black Mastic	Category I Non-Friable

Location	Material	Friability
1st Floor Elevator Lobby/Closet (Assumed in other Areas)	Yellow/Black Mastic associated with 12" x 12" White Floor Tile with Grey Streaks	Category I Non-Friable
Pre-K Hallway	2' x 2' White Pinhole Fissure Ceiling Tile **	Friable
IT Server Room (Assumed in other Areas)	1" Black Exterior Window Sealant	Category II Non-Friable
MATERIALS ASSUMED TO CONTAIN ASBESTOS *		
Throughout Building	Interior Pipe Wrap associated with Water Fountains and Radiators	Category II Non-Friable
Custodial Closet	9" x 9" Floor Tile and associated Mastic (assumed under 12" x 12" Floor Tiles)	Category I Non-Friable
Cafeteria Stairwell	Black Stair Tread and associated Mastic	Category I Non-Friable
Hallways	Wallboards and associated Mastics	Category II Non-Friable
Classrooms	Chalkboards and associated Mastics	Category II Non-Friable
Auditorium	Brown Ceiling Mastic associated with 1' x 1' Ceiling Tiles	Category II Non-Friable
Stage	Lighting Wire*	Friable
Bathrooms	Mirror Mastics	Category II Non-Friable
Throughout Building	Gypsum Board Roof*	Category II Non-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

Location	Material	Friability
Behind Interior Finishes, Exterior Veneer and/or Subgrade Walls, and under Ceramic Flooring	Waterproofing Membranes/Mastics	Category II Non-Friable
Elevator	Switch Deflector Plates, Brakes, Cab and Doors	Unknown
Roof	Asphalt-Based Roofing Materials and Caulks/Sealants	Non-Friable

Notes: * These materials were observed to be damaged in several locations. Missing ceiling and floor tiles associated with the identified asbestos-containing mastics were observed in the above listed locations.
** This material was reported to contain asbestos in concentration less than one percent (< 1% Chrysotile).
*** 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
Kitchen Area (Storage Room and Bathroom)	TSI-3" OD Pipe Run	1 – Damaged or Significantly Damaged TSI ACBM
Hallways (Observed in other Areas)	Fire Door	7 – Any Remaining Friable ACBM
Stage	Lighting Wire	7 – Friable Suspected ACBM

Recommendations

1) The following friable material was observed damaged and should be repaired or removed by a Commonwealth of Virginia licensed asbestos abatement contractor:
   - TSI-3" OD pipe runs in the kitchen area (storage room and bathroom).

2) The 2' x 2' white pinhole fissure ceiling tiles sampled from the Pre-K hallway (ECS Project No.01:18165, reported dated June 19, 2011) was found to contain less than one percent asbestos (<1% Chrysotile). While this material is not considered asbestos-containing material, the Occupational Safety and Health Administration (OSHA) still regulates any work which will disturb materials identified with trace amounts of asbestos (reference the November 24, 2003 OSHA Interpretation document - Compliance Requirements For Renovation Work Involving Materials Containing Less Than 1% Asbestos). Any Contractor disturbing these materials will need to comply with the 2003 OSHA Interpretation document. In short, this document classifies the disturbance to or removal of materials which contain any detectable asbestos content as Class II asbestos work and must be performed by trained asbestos workers.

3) The presumed asbestos-containing stage lighting wire was observed to be damaged. This material is considered friable; therefore, it is recommended to sample and analyze for asbestos content as soon as possible by a Commonwealth of Virginia licensed asbestos inspector. Sampling of this material requires proper lockout/tagout.

4) The presumed asbestos-containing gypsum boards roof were observed to be damaged throughout the building. This material is considered non friable. It is recommended to sample and analyze for asbestos content by a Commonwealth of Virginia licensed asbestos inspector. Until sampling, debris from this material should be considered as asbestos-contaminated and removed or repair by personnel designated by the School and trained in Operations & Maintenance asbestos activities. Sampling of this material requires proper lifting equipment or roofing penetrations.

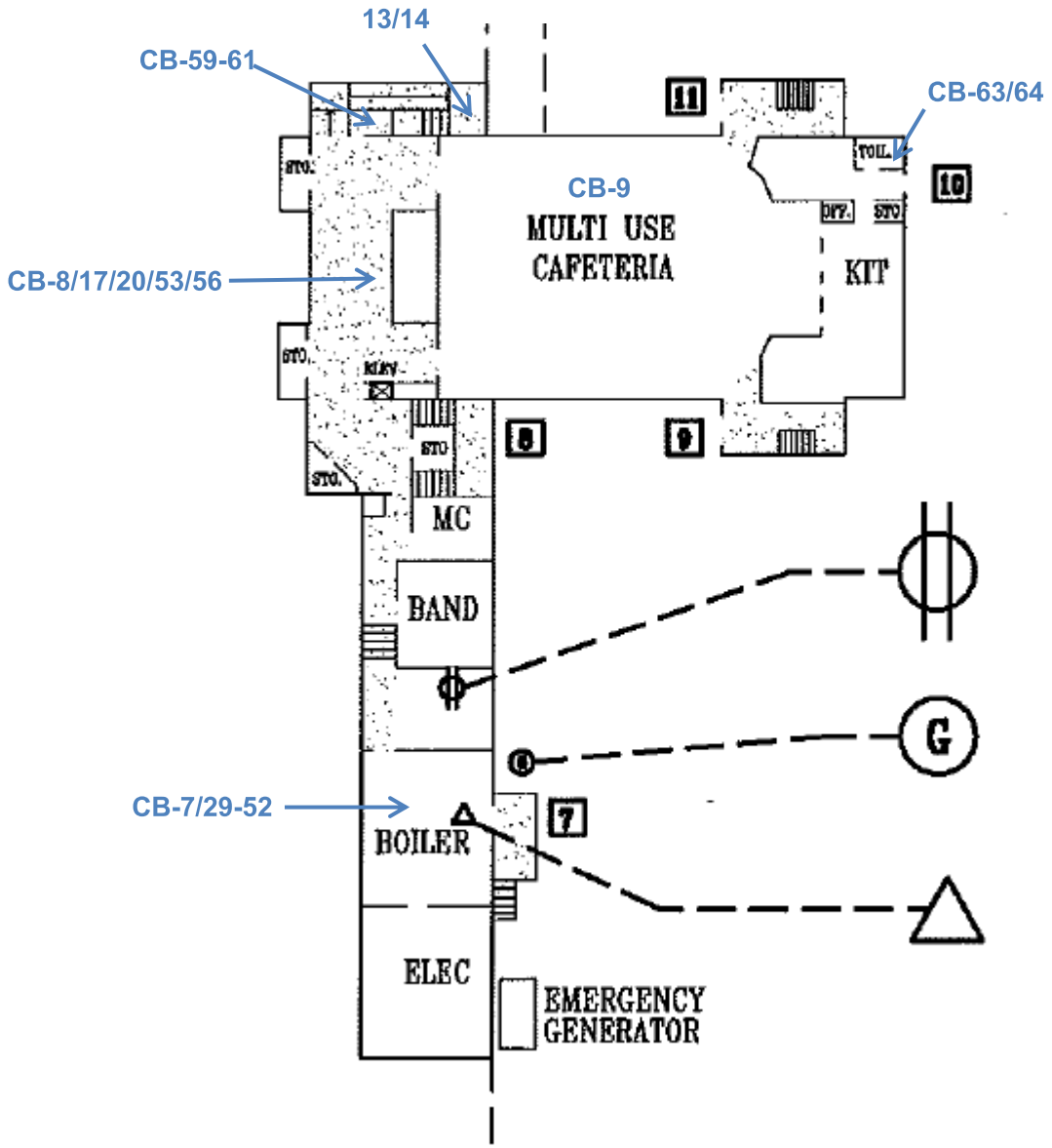
5) Missing 1' x 1' ceiling tiles associated with the identified asbestos-containing brown ceiling mastic were also observed in several areas throughout the building. Any damaged 1' x 1' ceiling tile and residual brown ceiling mastic should be removed by personnel designated by the School and trained 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 brown ceiling mastic.

6) Missing identified asbestos-containing 9" x 9" maroon floor tiles were observed in the janitor's closet. Missing floor tiles, in areas where 9" x 9" maroon floor tiles are placed, should be replaced as soon as possible to avoid future damage to the asbestos containing floor mastic.

APPENDIX B

FLOOR PLANS

Basement Level



Legend
- Sample Number

Notes
1. Sample Locations are estimated

CHARLES BARRETT
1115 MARTHA CUSTIS DRIVE
ALEXANDRIA, VIRGINIA

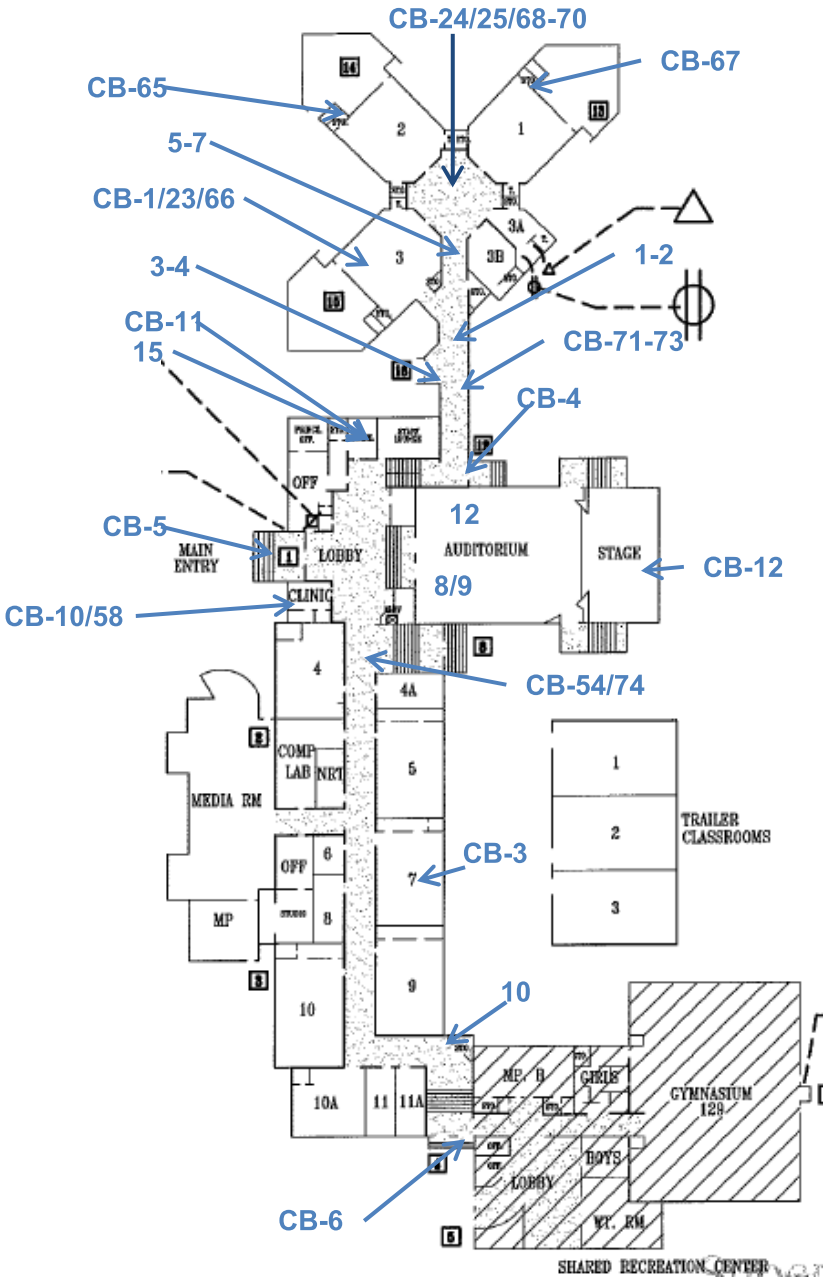
SAMPLING LOCATIONS
ACPS

SCALE NTS

Project No. 47:1519-D

Date 3/31/2017

1st FL



Legend
- Sample Number

Notes
1. Sample Locations are estimated

CHARLES BARRETT
1115 MARTHA CUSTIS DRIVE
ALEXANDRIA, VIRGINIA

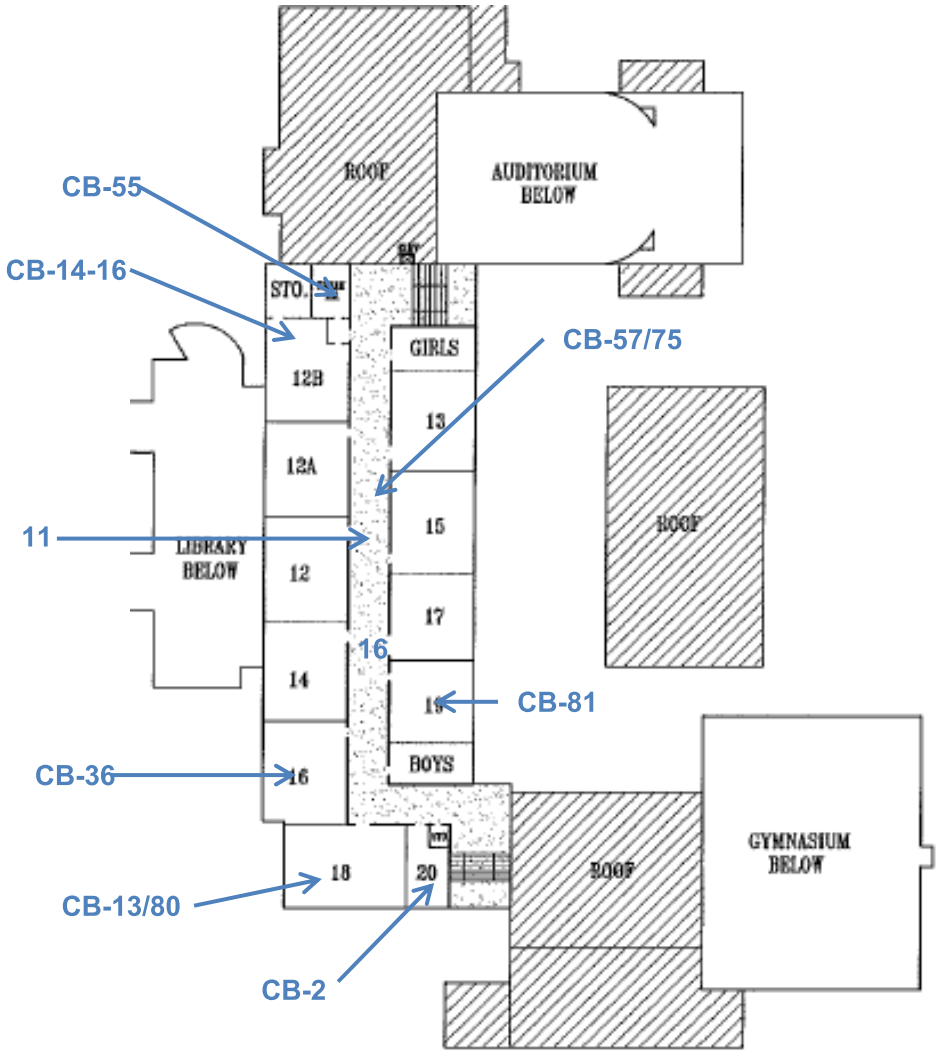
SAMPLING LOCATIONS
ACPS

SCALE NTS

Project No. 47:1519-D

Date 3/31/2017

2nd FL



Legend
- Sample Number

Notes
1. Sample Locations are estimated

CHARLES BARRETT
1115 MARTHA CUSTIS DRIVE
ALEXANDRIA, VIRGINIA

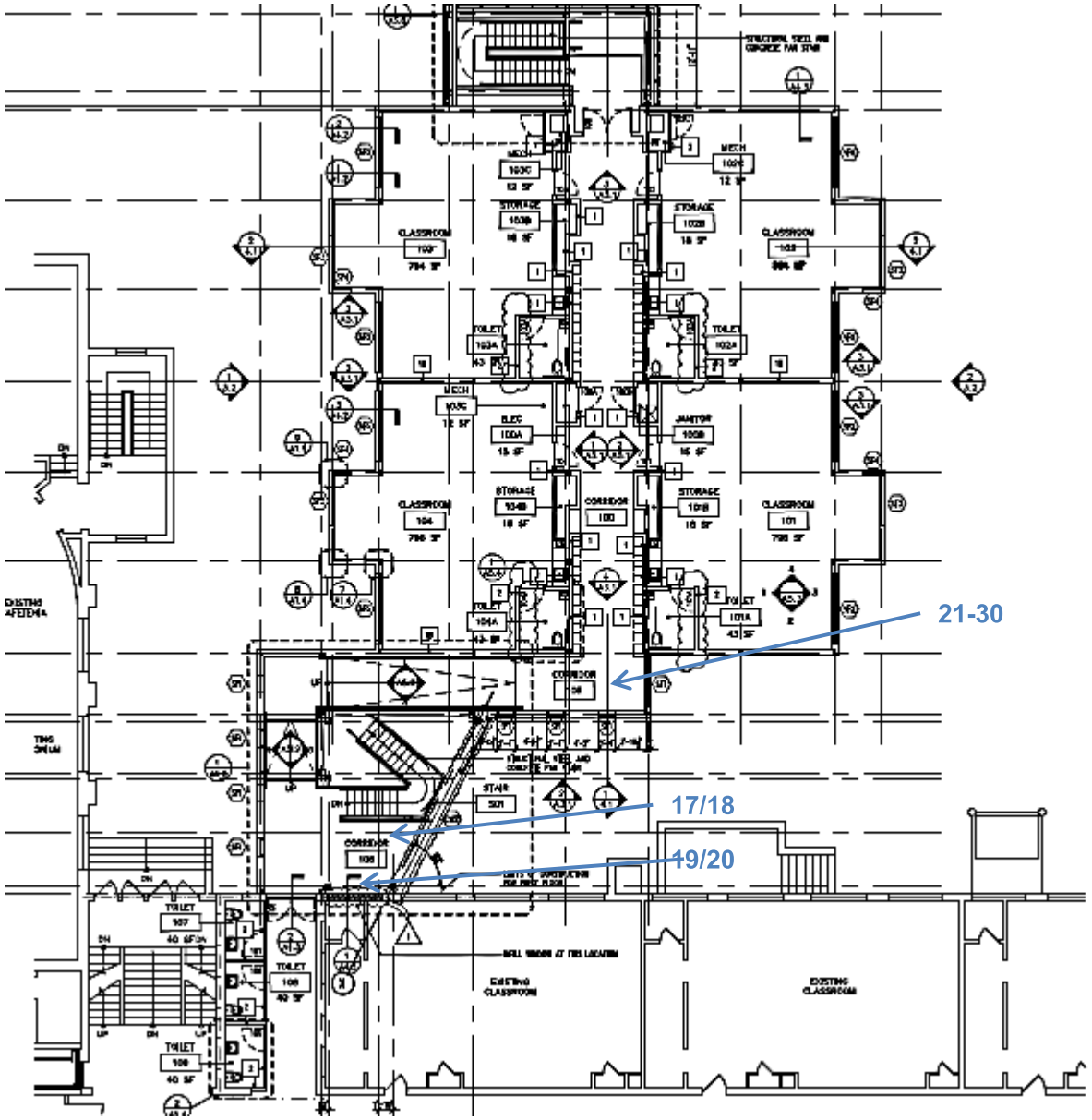
SAMPLING LOCATIONS
ACPS

SCALE NTS

Project No. 47:1519-D

Date 3/31/2017

Modular 1st FL



Legend
- Sample Number

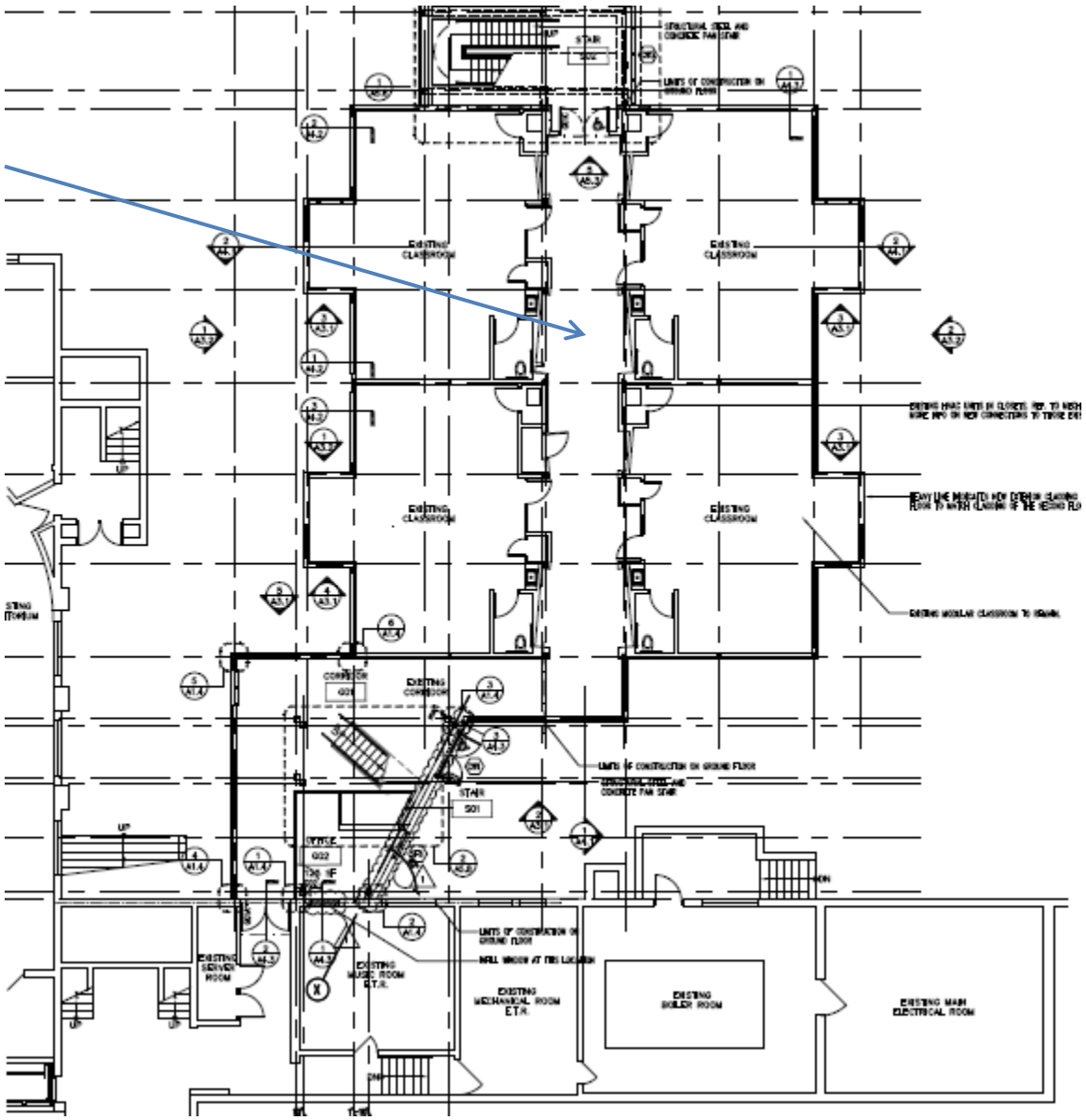
Notes
1. Sample Locations are estimated

CHARLES BARRETT
1115 MARTHA CUSTIS DRIVE
ALEXANDRIA, VIRGINIA

SAMPLING LOCATIONS
ACPS

SCALE	NTS
Project No.	47:1519-D
Date	3/31/2017

Modular
Ground FL



Legend
- Sample Number

Notes
1. Sample Locations are estimated

CHARLES BARRETT
1115 MARTHA CUSTIS DRIVE
ALEXANDRIA, VIRGINIA

SAMPLING LOCATIONS
ACPS

SCALE NTS

Project No. 47:1519-D

Date 3/31/2017

APPENDIX C

ASBESTOS SUMMARY TABLES

CHARLES BARRETT ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

Updated as of December 29, 2016

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS								
Brown Ceiling Mastic	Cafeteria	NF	Intact	Above Ceiling Tiles on Plaster Ceiling	29-Dec-16	Repair or Remove ASAP; Maintain in O & M Plan		Verify Analytical Results
9' x 9" Maroon Floor Tiles and associated Mastic	Janitor's Closets	NF	Intact	Assumed to be in other areas	29-Dec-16	Maintain in O & M Plan		Verify Analytical Results
9" x 9" Light Brown Floor Tiles and associated Mastic	Auditorium Stage Area	NF	Intact	Assumed to be covered by 12" x 12" floor tile	29-Dec-16	Maintain in O & M Plan		Reported as Enclosed
9" x 9" Brown Floor Tiles and associated Mastic	Cafeteria Stairwell	NF	Intact	Assumed to be covered by 12" x 12" floor tile	29-Dec-16	Maintain in O & M Plan		Not observed - Verify removal
3" OD TSI Pipe Run	Kitchen Area Storage Room and Bathroom	F	Damaged	Material is located above ceiling tiles	29-Dec-16	Repair or Remove ASAP; Maintain in O & M Plan		Verify Analytical Results
Fire Doors	Throughout the building	F	Intact	None	29-Dec-16	Maintain in O & M Plan		Verify Analytical Results
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS THAT WERE NOT IDENTIFIED/OBSERVED BY ECS FROM NOVEMBER 13, 2013 SURVEY								
Vibration Damper	Room 5 in Kindergarten Wing	F	N/A	This material is reported as ACM; however it was not observed in this area.	29-Dec-16	Maintain in O & M Plan		Verify Analytical Results
9" x 9" Maroon Floor Tiles and associated Mastic	Auditorium Under Seats, Cafeteria, and Stairwell Leading to Stage	NF	N/A	Carpet tiles were observed in Auditorium Under Seats and Stairwell Leading to Stage. 12" x 12" floor tile was observed in the cafeteria.	29-Dec-16	Remove from O & M pending verification of removal		Not observed - Verify removal
9" x 9" Brown Floor Tiles and associated Mastic	Cafeteria Stairwell	NF	N/A	This material is reported as ACM; however it was not observed in this area. 12" x 12" floor tile was observed in this area.	29-Dec-16	Maintain in O & M Plan Remove or Enclose ASAP		Not observed - Verify removal
9" x 9" Black Floor Tiles and associated Mastic	Kitchen Storage room	NF	N/A	This material is reported as ACM; however it was not observed in this area. Ceramic floor tile was observed in this area.	29-Dec-16	Remove from O & M pending verification of removal		Not observed - Verify removal
12" x 12" Floor Tiles and associated Mastic (Various Colors)	Throughout the building	NF	N/A	This material is reported as PACM; however it was not observed in this area.	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Textured Ceiling	Stage	F	N/A	This material is reported as PACM; however it was not observed in this area.	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
TSI-Mudded Elbows	Kindergarten Wing	F	N/A	This material is reported as PACM; however it was not observed in this area.	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Incinerator	By Room 26	F	N/A	This material is reported as PACM; however it was not observed in this area.	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed

CHARLES BARRETT ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
ASBESTOS CONTAINING MATERIALS REPORTED BY ECS IN PROJECT NO. 01:18165 ON JUNE 19, 2011								
12" x 12" White Floor Tile with Brown Streaks and Black Mastic	1st Floor Elevator Lobby	NF	N/A	This material may be present in other areas	29-Dec-16	Maintain in O & M Plan		Asbestos: Floor Tile - 2% Chrysotile Mastic - 4% Chrysotile
Yellow/Black Mastic associated with 12" x 12" White Floor Tile with Grey Streaks	1st Floor Elevator Lobby/Closet	NF	N/A	This material may be present in other areas	29-Dec-16	Maintain in O & M Plan		Asbestos: Mastic - 3% Chrysotile
2' x 2' Pinhole Fissure Ceiling Tile	Pre-K Hallway	NF	N/A	Not Observed, This material may be present in other areas	29-Dec-16	Maintain in O & M Plan		Asbestos: Tile - <1% Chrysotile
1" Black Exterior Window Sealant	Exterior Window of IT Server Room	NF	N/A	This material may be present in other areas	29-Dec-16	Maintain in O & M Plan		Asbestos: 20% Chrysotile
MATERIALS ASSUMED TO CONTAIN ASBESTOS								
Textured Ceiling	Room 40 (Above the Suspended Ceiling)	F	N/A	This material was not accessible due to the height of the ceiling above the suspended ceiling	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Window and Door Caulks	Throughout the building	NF	Intact	Various types of caulk were sampled as NAD by ECS.	29-Dec-16	Removed from O & M Plan		None
Plaster Walls	Throughout the building	F	Intact	Sampled as NAD in Basement Foyer, Cafeteria, Stage and Rooms 6 , 8, and 38	29-Dec-16	Removed from O & M Plan		None
9" x 9" Floor Tiles and associated Mastic	Janitor's Closet by Room 40	NF	Intact	PACM until tested; Assumed to be covered by 12" x 12" floor tile.	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Drywall and Joint Compound	Throughout the building	NF	Intact	Sampled as NAD in Hallway to Cafeteria and HVAC Room on 1st Floor by ECS	29-Dec-16	Removed from O & M Plan		None
1' x 1' Ceiling Tiles and associated Mastic	Hallway to Music Room	NF	Intact	PACM until tested	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
4' Cove Base and associated Mastic	Throughout the building	NF	Intact	Various types of cove base and associated mastic were sampled as NAD by ECS.	29-Dec-16	Removed from O & M Plan		None
2' x 4' Ceiling Tiles	Throughout the building	NF	Intact	Various types of 2' x 4' ceiling tiles were sampled as NAD by ECS.	29-Dec-16	Removed from O & M Plan		None
Gray Sink Underlayment Mastic	Kindergarten Wing	NF	Intact	Sampled as NAD in Kindergarten Common Area and Room 3 by ECS	29-Dec-16	Removed from O & M Plan		None
Electrical Wire (Cloth)	Stage	F	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Gypsum Board Roof	Throughout the Building	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Black Stair Tread and associated Mastic	Cafeteria Stairwell	NF	Intact	PACM until tested	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Pipe Flange Gaskets	Throughout the Building	Unknown	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Electrical Panels: Asbestos Cement Components	Mechanical Rooms	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed

CHARLES BARRETT ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
Thermal System Insulation	Throughout building behind Solid Walls and Ceiling	F	Not Observed	PACM Until Tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Floor Felt under Wood Flooring	Stage, Throughout the Building	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Mirror Mastic	Bathrooms	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Chalkboards and associated Mastics	Classrooms	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Interior Pipe Wrap associated with Water Fountains and Radiators	Throughout the Building	F	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Cement Boards behind Radiators	Throughout the Building	NF	Intact	PACM until tested	29-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	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Asphalt-Based Roofing Material and Caulks/Sealants	Roof	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
NON-ASBESTOS CONTAINING MATERIALS REPORTED BY ECS IN PROJECT NO. 01:18165 ON JUNE 19, 2011								
12" x 12" White Floor Tile with Grey Streaks	1st Floor Elevator Lobby/Closet	NF	N/A	The mastic associated wit this material is ACM, and is listed as such in the corresponding section of this table.	N/A	N/A	N/A	Floor Tile - NAD
4" Black Cove base with Cream Mastic	1st Floor Elevator Lobby	N/A	N/A	N/A	N/A	N/A	N/A	Cove base - NAD Mastic - NAD
6" Black Cove base with White Mastic	1st Floor Elevator Lobby	N/A	N/A	N/A	N/A	N/A	N/A	Cove base - NAD Mastic - NAD
Drywall Wallboard	1st Floor Elevator Lobby	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Drywall Joint Compound	1st Floor Elevator Lobby	N/A	N/A	N/A	N/A	N/A	N/A	NAD
12" x 12" White Floor Tile with Pink/Blue Streaks and Yellow Mastic	1st Floor Elevator Lobby	N/A	N/A	N/A	N/A	N/A	N/A	Floor Tile - NAD Mastic - NAD
1' x 1' Texture Print Ceiling Tile	1st Floor Elevator Lobby/Closet	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Textured Wall Coating	IT Server Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Plaster Wall	IT Server Room	N/A	N/A	N/A	N/A	N/A	N/A	Skim Coat - NAD Rough Coat - NAD
2' x 2' Pinhole Punch Fissure Ceiling Tile	IT Server Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD

CHARLES BARRETT ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
Ceiling Plaster	IT Server Room	N/A	N/A	N/A	N/A	N/A	N/A	Skim Coat - NAD Rough Coat - NAD
Yellow Carpet Mastic	IT Server Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
12" x 12" White Floor Tile with Blue Streaks and Yellow/Black Mastic	IT Server Room	N/A	N/A	N/A	N/A	N/A	N/A	Floor Tile - NAD Mastic - NAD
NON-ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN NOVEMBER 13, 2013 SURVEY								
Green Interior Window Caulk	Room 3, 13, and 40	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Black Interior Door Caulk	Exit Doors 4 and 12 and the Main Entrance Door	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Plaster Ceiling/Walls	Basement Foyer, Cafeteria, Stage and Rooms 6 , 8, and 38	N/A	N/A	N/A	N/A	N/A	N/A	Finish - NAD Base - NAD
White Sink Undercoat	Room 26	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Drywall Wallboard	Hallway to Cafeteria and HVAC Room on 1st Floor	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Joint Compound	Hallway to Cafeteria and HVAC Room on 1st Floor	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Grey Sink Undercoat	Kindergarten Common Area and Room 3	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Beige Mastic on Metal Duct	HVAC Room on 1st Floor	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Mastic associated with Interior Window Casing	Boiler Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Black Interior Window Caulk	Boiler Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Grey Interior Window Glazing	Boiler Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
White Interior Door Caulk	Boiler Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
White Pipe Bridging Mastic	Boiler Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Plaster Ceiling with Black Waterproofing	Boiler Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Stair Tread and associated Brown Mastic	Stair Landing to Boiler Room	N/A	N/A	N/A	N/A	N/A	N/A	Stair Tread - NAD Mastic - NAD
12" x 12" Off-White with Brown/White Flecks Floor Tile	Stair Landing to Boiler Room	N/A	N/A	N/A	N/A	N/A	N/A	Floor Tile - NAD Mastic - NAD
2' x 4' White Pinhole/Fissured Ceiling Tile	Basement Foyer, 1st Floor Hallway, and Secondary Book Room on 2nd Floor	N/A	N/A	N/A	N/A	N/A	N/A	NAD
2' x 2' White Fissured Ceiling Tile	Hallway to Cafeteria, 2nd Floor Hallway, and Clinic Room 8	N/A	N/A	N/A	N/A	N/A	N/A	NAD

CHARLES BARRETT ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
White Textured Plaster Wall	Basement Restrooms	N/A	N/A	N/A	N/A	N/A	N/A	Texture - NAD Plaster - NAD
White Textured Plaster Ceiling	Kitchen Bathroom	N/A	N/A	N/A	N/A	N/A	N/A	Texture - NAD Plaster - NAD
4" Pipe Fitting TSI	Closet in Kindergarten Rooms 1, 2, and 3	N/A	N/A	N/A	N/A	N/A	N/A	Wrap/Mastic - NAD Insulation - NAD
Brown Wall Board	Kindergarten Common Area (behind Sink Cabinet)	N/A	N/A	N/A	N/A	N/A	N/A	NAD
1' x 1' Gray (White Painted) Textured Ceiling Tile	Ramp to Kindergarten Area	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Floor Tile under 12" x 12" Floor Tile	1st, 2nd, and 3rd Floor Hallways	N/A	N/A	N/A	N/A	N/A	N/A	Mastic - NAD Floor Tile - NAD Mastic - NAD
Gray Mastic on Metal Duct	2nd, 3rd, and 4th Floor Hallways (above Drop Ceiling)	N/A	N/A	N/A	N/A	N/A	N/A	NAD
2' x 4' White 2' x 2' Shaped Fissured Ceiling Tile	Room 38 on the 2nd Floor	N/A	N/A	N/A	N/A	N/A	N/A	NAD
NON-ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN DECEMBER 29, 2016 SURVEY								
Gray Fiberboard Wall Panel	1st Floor Kindergarten Hallway	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Residual Brown Cove base Mastic on Brick Wall	1st Floor Kindergarten Hallway	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Gray "Mudded" Pipe Fitting Insulation	1st Floor Kindergarten Hallway	N/A	N/A	N/A	N/A	N/A	N/A	Wrap - NAD Insulation - NAD
Cork Wall Panel and associated Black Mastic	1st Floor Auditorium Entrance	N/A	N/A	N/A	N/A	N/A	N/A	Cork - NAD Mastic - NAD
Wall Texture	1st Floor Primary Book Room, 2nd Floor Hallway, and 1st Floor Auditorium	N/A	N/A	N/A	N/A	N/A	N/A	NAD
White Ceramic Chair Rail Caulk	1st Floor Hallway to Cafeteria	N/A	N/A	N/A	N/A	N/A	N/A	NAD
White Door Caulk	1st Floor Main Office and 2nd Floor Room 31	N/A	N/A	N/A	N/A	N/A	N/A	NAD
12" x 12" Gray Line Patterned Floor Tile with Cream Mastic and Gray Leveling Compound	1st Floor Addition Lobby by Bathrooms	N/A	N/A	N/A	N/A	N/A	N/A	Tile - NAD Mastic/Leveling Compound - NAD
4" Lime Green Cove base and Cream Mastic	1st Floor Addition Lobby by Bathrooms	N/A	N/A	N/A	N/A	N/A	N/A	Cove base - NAD Mastic - NAD
12" x 12" Green Mottled Floor Tile with associated Yellow Mastic	Ground Floor Hall by Room 19	N/A	N/A	N/A	N/A	N/A	N/A	Tile - NAD Mastic - NAD
12" x 12" Yellow Feathered Floor Tile	Ground Floor Hall by Room 19	N/A	N/A	N/A	N/A	N/A	N/A	NAD
12" x 12" Blue Feathered Floor Tile with Yellow Mastic	Ground Floor Hall by Room 19	N/A	N/A	N/A	N/A	N/A	N/A	Tile - NAD Mastic - NAD
12" x 12" Cream Feathered Floor Tile with Yellow Mastic	Ground Floor Hall by Room 19	N/A	N/A	N/A	N/A	N/A	N/A	Tile - NAD Mastic - NAD
12" x 12" White with Black Streaks Floor Tile	Ground Floor Hall by Room 19	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.

Charles Barrett Elementary School 3-Year AHERA Re-Inspection Survey
Asbestos-Containing Materials Summary

Date: December 29, 2016

Address: 1115 Martha Custis Drive, Alexandria, Virginia

Room	Material	Condition	Abated
Throughout the Building (Above Drop Ceiling Tiles in some Areas)	Brown Ceiling Mastic	Damaged	No
Janitor's Closets	9' x 9" Maroon Floor Tiles and associated Mastic	Not Observed	No*
Auditorium Stage Area	9" x 9" Light Brown Floor Tiles and associated Mastic	Not Observed (Assumed underneath other Flooring Materials)	No**
Cafeteria Stairwell	9" x 9" Brown Floor Tiles and associated Mastic	Not Observed (Assumed underneath other Flooring Materials)	No***
Kitchen Area Storage Room and Bathroom	TSI-3" OD Pipe Run	Damaged	No****
Throughout the building	Fire Doors	Intact	No
Vibration Damper Cloth	Room 5 - Kindergarten Wing	Not Observed	No
9" x 9" Black Floor Tile and Associated Mastic	Kitchen Storage Room	Not Observed	No
1st Floor Elevator Lobby and Boiler Room Entrance	12" x 12" White Floor Tile with Brown Streaks and Black Mastic	Intact	No
1st Floor Elevator Lobby/Closet	Yellow/Black Mastic associated with 12" x 12" White Floor Tile with Grey Streaks	Intact	No
Pre-K Hallway	2' x 2' Pinhole Fissure Ceiling Tile	Intact	No
Exterior Window of IT Server Room	1" Black Exterior Window Sealant	Intact	No

Room	Material	Condition	Abated

Comments

* This material was noted to be present in janitor closets on a previous report. It was not observed in these locations during this survey.
** This material was noted to be present in auditorium stage area on a previous report. It was not observed in this location during this survey and is assumed to be in this location underneath the existing flooring materials.
***This material was noted to be present in cafeteria stairwell on a previous report. It was not observed in this location during this survey and is assumed to be in this location underneath the existing flooring materials.
****This material was noted to be present in the kitchen area storage room on a previous report. The kitchen area storage room was locked and inaccessible.
This list does not include assumed ACMs.

AHERA Inspector: Michael Hamill **License No:** 3303004050

Signature of Inspector: Michael Hamill

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)

Virginia Department of Education
AHERA Review Report

StateID	School Name	Address	City	Management Status Complete	Incomplete
** For Divison of: (101) ALEXANDRIA					
1010191	ALEXANDRIA DEV CENTER	5651 RAYBURN AVE.	ALEXANDRIA	6/15/89 FB	
1010120	CHARLES BARRETT ELEM.	1115 MARTHA CUSTIS DR.	ALEXANDRIA	6/15/89 FB	
1010160	CORA KELLY MAGNET ELEM.	3600 COMMONWEALTH AVE.	ALEXANDRIA	6/15/89 ICR	
1010110	DOUGLAS MACARTHUR ELEM.	1101 JANNEY'S LN.	ALEXANDRIA	6/15/89 ICR	
1010170	FRANCIS C HAMMOND JR. HI.	4646 SEMINARY RD.	ALEXANDRIA	6/15/89 FB	
1010100	GEORGE MASON ELEM.	2601 CAMERON MILLS RD.	ALEXANDRIA	6/15/89 FB	
1010010	GEORGE WASHINGTON JR. HI.	1005 MT. VERNON AVE.	ALEXANDRIA	6/15/89 MLG	
1010220	JAMES K. POLK ELEM.	5000 POLK AVE.	ALEXANDRIA	6/12/89 FB	
1010090	JEFFERSON HOUSTON ELEM.	1501 CAMERON ST.	ALEXANDRIA	6/15/89 ICR	
1010230	JOHN ADAMS ELEM.	5651 RAYBURN AVE.	ALEXANDRIA	2-22-90 MB	
1010080	LYLES-CROUCH ELEM.	530 S. ST. ASAPH ST.	ALEXANDRIA	6/12/89 FB	
1010060	MAURY ELEM.	600 RUSSELL RD.	ALEXANDRIA	6/15/89 ICR	
1010030	MOUNT VERNON ELEM.	2601 COMMONWEALTH AVE.	ALEXANDRIA	12/20/89 CLS	
1010050	PATRICK HENRY ELEM.	4643 TANEY AVE.	ALEXANDRIA	6/15/89 MLG	
1010000	ROWING FACILITY	1 MADISON STREET	ALEXANDRIA	6/15/89 MLG	
1010150	SEC. MINNIE HOWARD ADMIN.	3801 BRADDOCK RD.	ALEXANDRIA	6/15/89 MLG	
1010210	T. C. WILLIAMS HIGH	3330 KING ST.	ALEXANDRIA	6/15/89 MLG	
1010190	WILLIAM RAMSAY ELEM.	5700 SANGER AVE.	ALEXANDRIA	6/15/89 MLG	
1010001	WORK SHOPS	3540 WHEELER AVE.	ALEXANDRIA	6/12/89 FB	

A.F. Meyer and Associates, Inc.

Charles Barrett Elementary

Alexandria City, Virginia

Management Plan

for

Asbestos-containing Materials

Environmental, System Safety, and Occupational Health Consultants

EC.033 5/88

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

CHARLES BARRETT 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: John B. Love
Signature: John B Love
Accreditation Number: 8802-02-100
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: 4-20-09

Signature: Paul W. Mason
LEA Superintendent
P.W. Mason
Typed Name of Superintendent
Date: 4-28-09

FOR REVIEWING AGENCY USE ONLY

☐ Reviewed
☐ Returned for Reasons Stated Below

State I.D.# _____

Reviewer's Signature: _____
Date: _____

PHOTOCOPYING PERMITTED

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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' acoustical ceiling tile - localized areas throughout school
Homogeneous Area ID Number: M01
Field Documents:
Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Homogeneous Area Name: 1' x 1' brown vinyl tile - kitchen floor
Homogeneous Area ID Number: M02
Field Documents:
Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Homogeneous Area Name: Vinyl wall baseboard - day care center classrooms
Homogeneous Area ID Number: M03
Field Documents:
Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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: Homogeneous Area ID Number: M04
1' x 1' beige vinyl floor tile, room 4 - bathroom floor
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Homogeneous Area Name: Homogeneous Area ID Number: M05
2' x 2' acoustical ceiling tile (gouges) - lobby area
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Homogeneous Area Name: Homogeneous Area ID Number: M06
1' x 1' white vinyl tile - lobby area floor
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Homogeneous Area Name: Homogeneous Area ID Number: M07
1' x 1' acoustical ceiling tile, cafeteria lobby
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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: 1' x 1' tan vinyl tile (streaks) - room 5
Homogeneous Area ID Number: M08
Field Documents:
Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Homogeneous Area Name: 9" x 9" brown vinyl tile, auditorium floor
Homogeneous Area ID Number: M09
Field Documents:
Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Homogeneous Area Name: Fire doors - all
Homogeneous Area ID Number: M10
Field Documents:
Estimated Amount of Material: ALL
Sample Area :
Homogeneous Area: ACCBHA02
Photograph :

Homogeneous Area Name: Flexible cloth vibration connectors
Homogeneous Area ID Number: M11
Field Documents:
Estimated Amount of Material: ALL
Sample Area :
Homogeneous Area: ACCBHA01
Photograph :

Inspector: Mark Painter
Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887
Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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: Homogeneous Area ID Number: S01
Troweled on ceiling in basement, hot water heater room
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Homogeneous Area Name: Homogeneous Area ID Number: S02
Troweled on wall (textured) - day care center classrooms
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Homogeneous Area Name: Homogeneous Area ID Number: S03
Smooth plaster ceiling - cafe entrances both sides
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Homogeneous Area Name: Homogeneous Area ID Number: T01
Boiler jacket - boiler room
Field Documents: Estimated Amount of Material: 1 EA
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP01

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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: Homogeneous Area ID Number: T02
Hot water tank jacket - basement storage room by boiler room
Field Documents: Estimated Amount of Material: 1 EA
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP02

Homogeneous Area Name: Homogeneous Area ID Number: T03
Pipe insulation - boiler room, crawl space
Field Documents: Estimated Amount of Material: 150 LF
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP03

Homogeneous Area Name: Homogeneous Area ID Number: T04
Elbow insulation - crawl space, boiler room and throughout school
Field Documents: Estimated Amount of Material: 400 EA
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP04

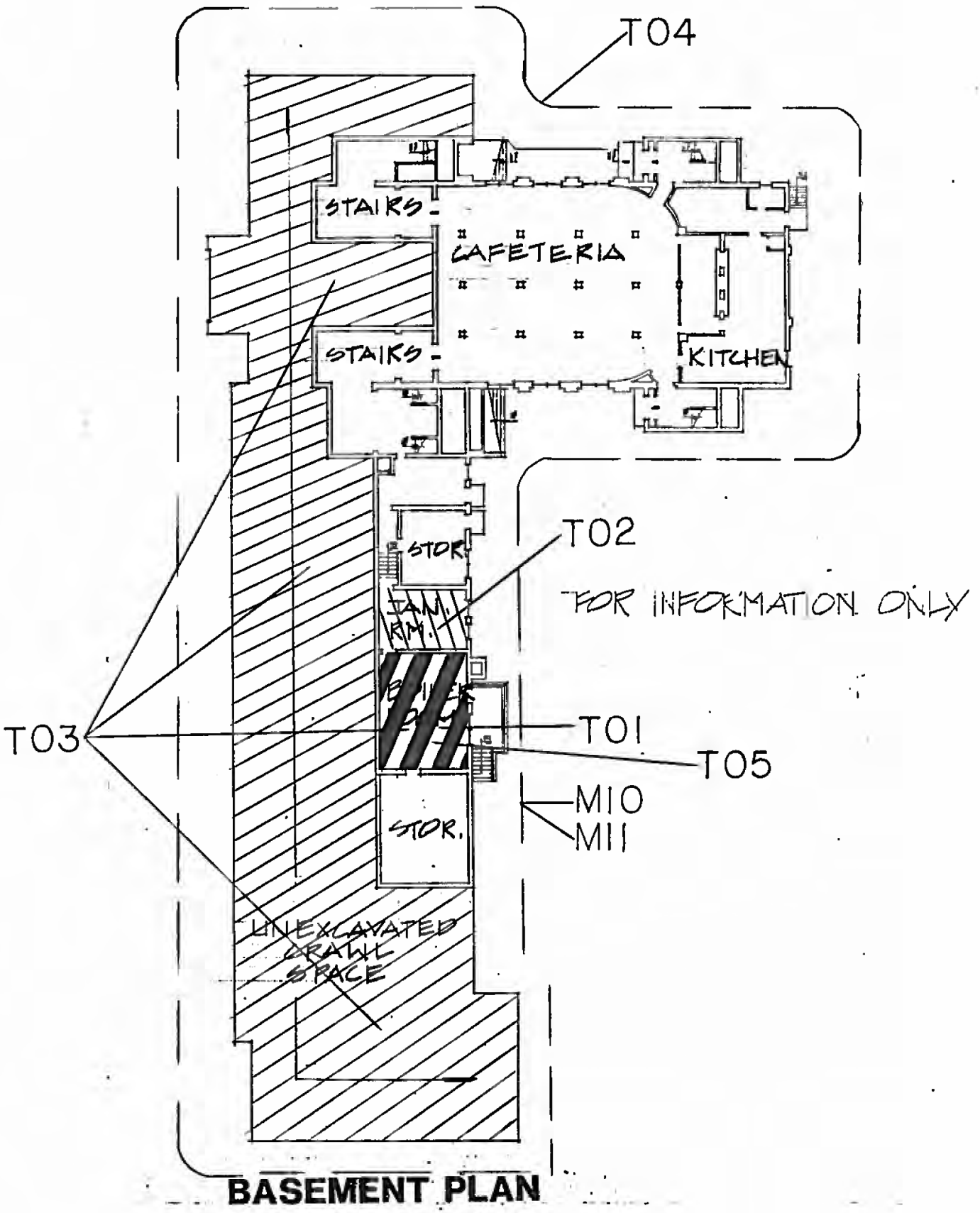
Homogeneous Area Name: Homogeneous Area ID Number: T05
Loose debris - on top of boiler; boiler room
Field Documents: Estimated Amount of Material: 1 SF
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph :

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

CHARLES BARRETT ELEMENTARY SCHOOL

ACCBHA01



BASEMENT PLAN

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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' acoustical ceiling tile - localized areas throughout school
Homogeneous Area ID Number: M01
Estimated Amount of Material: 0

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
04/14/88	ACCBM01022		

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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: Homogeneous Area ID Number: M02
1' x 1' brown vinyl tile - kitchen floor
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
04/14/88	ACCBM02023		

Homogeneous Area Name: Homogeneous Area ID Number: M03
Vinyl wall baseboard - day care center classrooms
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
04/14/88	ACCBM03024		

Homogeneous Area Name: Homogeneous Area ID Number: M04
1' x 1' beige vinyl floor tile, room 4 - bathroom floor
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
04/14/88	ACCBM04025	04/14/88	ACCBM04QC2

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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: Homogeneous Area ID Number: M05
2' x 2' acoustical ceiling tile (gouges) - lobby area
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
11/18/88	ACCBM05026		

Homogeneous Area Name: Homogeneous Area ID Number: M06
1' x 1' white vinyl tile - lobby area floor
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
11/18/88	ACCBM06027		

Homogeneous Area Name: Homogeneous Area ID Number: M07
1' x 1' acoustical ceiling tile, cafeteria lobby
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
11/18/88	ACCBM07028		

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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: Homogeneous Area ID Number: M08
1' x 1' tan vinyl tile (streaks) - room 5
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
11/18/88	ACCBM08032		

Homogeneous Area Name: Homogeneous Area ID Number: M09
9" x 9" brown vinyl tile, auditorium floor
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA02
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
11/18/88	ACCBM09033		

Homogeneous Area Name: Homogeneous Area ID Number: M10
Fire doors - all
Field Documents: Estimated Amount of Material: ALL
Sample Area :
Homogeneous Area: ACCBHA02
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID

*** ASSUMED POSITIVE - NO SAMPLES COLLECTED ***

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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:
Flexible cloth vibration connectors

Homogeneous Area ID Number: M11

Field Documents:
Sample Area :
Homogeneous Area: ACCBHA01
Photograph :

Estimated Amount of Material: ALL

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID

*** ASSUMED POSITIVE - NO SAMPLES COLLECTED ***

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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: Troweled on ceiling in basement, hot water heater room
Homogeneous Area ID Number: S01
Field Documents:
Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
04/14/88	ACCBS01016	11/18/88	ACCBS01017
11/18/88	ACCBS01018		

Homogeneous Area Name: Troweled on wall (textured) - day care center classrooms
Homogeneous Area ID Number: S02
Field Documents:
Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
11/18/88	ACCBS02020	11/18/88	ACCBS02021
04/14/88	ACCBS02029		

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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: Homogeneous Area ID Number: S03
Smooth plaster ceiling - cafe entrances both sides
Field Documents: Estimated Amount of Material: 0
Sample Area : ACCBSA01
Homogeneous Area:
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
11/18/88	ACCBS03029	11/18/88	ACCBS03030
11/18/88	ACCBS03031		

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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 collects, 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: Boiler jacket - boiler room
Homogeneous Area ID Number: T01
Field Documents:
Estimated Amount of Material: 1 EA
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP01

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
04/14/88	ACCBT01001	04/14/88	ACCBT01002
04/14/88	ACCBT01003		

Homogeneous Area Name: Hot water tank jacket - basement storage room by boiler room
Homogeneous Area ID Number: T02
Field Documents:
Estimated Amount of Material: 1 EA
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP02

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
04/14/88	ACCBT02004	04/14/88	ACCBT02005

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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: Homogeneous Area ID Number: T03
Pipe insulation - boiler room, crawl space
Field Documents: Estimated Amount of Material: 150 LF
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP03

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
04/14/88	ACCBT03006	04/14/88	ACCBT03007
11/18/88	ACCBT03008		

Homogeneous Area Name: Homogeneous Area ID Number: T04
Elbow insulation - crawl space, boiler room and throughout school
Field Documents: Estimated Amount of Material: 400 EA
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP04

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
04/14/88	ACCBT04011	04/14/88	ACCBT04012
04/14/88	ACCBT04013	04/14/88	ACCBT04014
11/18/88	ACCBT04QC1		

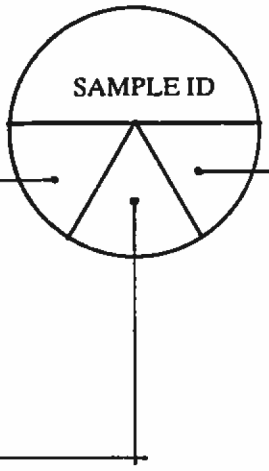
Homogeneous Area Name: Homogeneous Area ID Number: T05
Loose debris - on top of boiler; boiler room
Field Documents: Estimated Amount of Material: 1 SF
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph :

Samples Collected:

Sample Date	Sample ID	Sample Date	Sample ID
04/14/88	ACCBT05015		

Inspector: Mark Painter Signature: Mark Painter Date: 12/05/88
Accreditation Number: WLA10713887 Agency: White Lung Association

SYMBOLS KEY



MATERIAL TYPES

S	SURFACE
T	THERMAL
M	MISCELLANEOUS

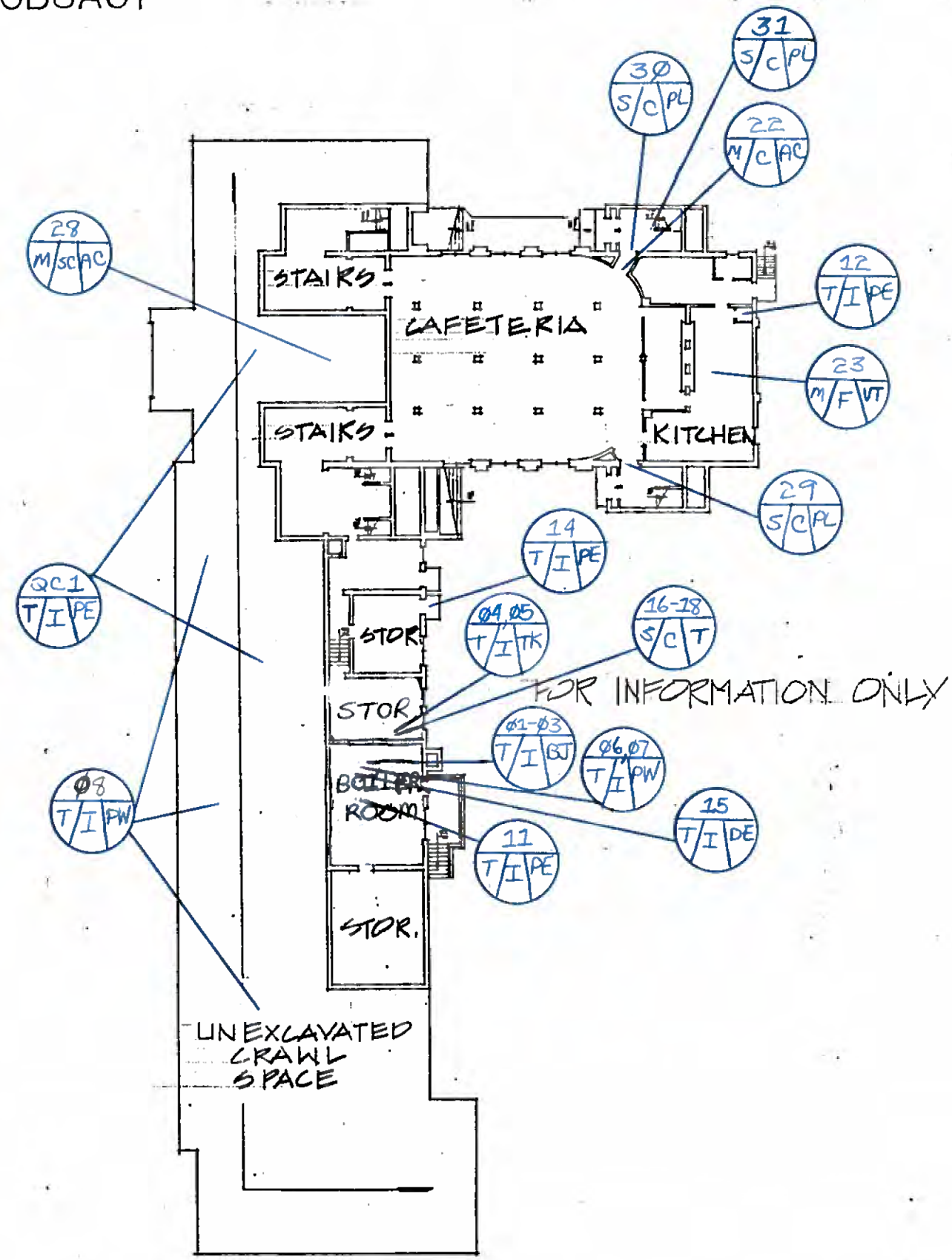
LOCATION CODES

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

CHARLES BARRETT ELEMENTARY SCHOOL

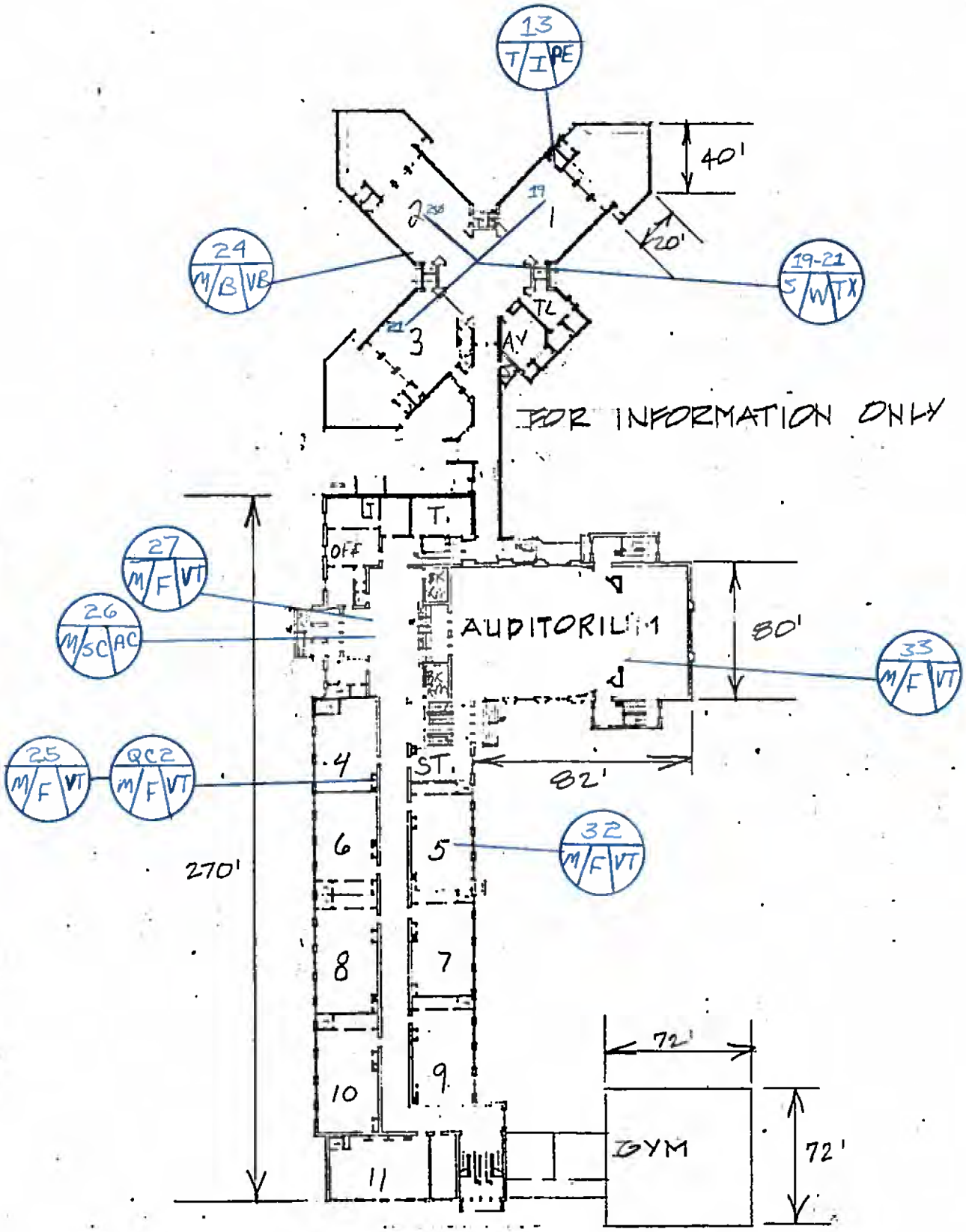
ACCBSA01



BASEMENT PLAN

CHARLES BARRETT ELEMENTARY SCHOOL

ACCBSA02



FIRST FLOOR PLAN

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: Charles Barrett School
Building: Charles Barrett Elementary
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: M01
1' x 1' acoustical ceiling tile - localized areas throughout school
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBM01022	2876			GEO	
			TOTAL:	NAFD		

Homogeneous Area Name: Homogeneous Area ID Number: M02
1' x 1' brown vinyl tile - kitchen floor
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBM02023	2888			GEO	
			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: Charles Barrett School
Building: Charles Barrett Elementary
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: M03
Vinyl wall baseboard - day care center classrooms
Field Documents:
Sample Area : ACCBSA02
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBM03024	2892			GEO	
			TOTAL:	NAFD		

Homogeneous Area Name: Homogeneous Area ID Number: M04
1' x 1' beige vinyl floor tile, room 4 - bathroom floor
Field Documents:
Sample Area : ACCBSA02
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBM04025	2893			GEO	
			TOTAL:	NAFD		

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBM04QC2	8078629-1530	Chrysotile	Trace	AML	Tan tile
			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: Charles Barrett School
Building: Charles Barrett Elementary
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: M05
2' x 2' acoustical ceiling tile (gouges) - lobby area
Field Documents:
Sample Area : ACCBSA02
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBM05026	8106848-1530			AML	Tan, layered, fibrous material
			TOTAL:	<1		

Homogeneous Area Name: Homogeneous Area ID Number: M06
1' x 1' white vinyl tile - lobby area floor
Field Documents:
Sample Area : ACCBSA02
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBM06027	8106849-1530			AML	White, easily broken 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: Charles Barrett School
Building: Charles Barrett Elementary
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: M07
1' x 1' acoustical ceiling tile, cafeteria lobby
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBM07028	8106850-1530			AML	White, soft, fibrous material
			TOTAL:	<1		

Homogeneous Area Name: Homogeneous Area ID Number: M08
1' x 1' tan vinyl tile (streaks) - room 5
Field Documents:
Sample Area : ACCBSA02
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBM08032	8106854-1530			AML	Tan, easily broken 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: Charles Barrett School
Building: Charles Barrett Elementary
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: M09
9" x 9" brown vinyl tile, auditorium floor
Field Documents:
Sample Area : ACCBSA02
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBM09033	8106855-1530			AML	Brown, easily broken material
			TOTAL:	<1		

Homogeneous Area Name: Homogeneous Area ID Number: S01
Troweled on ceiling in basement, hot water heater room
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBS01016	2886			GEO	
			TOTAL:	NAFD		

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBS01017	8106858-1530			AML	Brown, grainy material
			TOTAL:	<1		
11/18/88	ACCBS01018	8106859-1530			AML	Brown, 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: Charles Barrett School
Building: Charles Barrett Elementary
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: S02
Troweled on wall (textured) - day care center classrooms
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBS02020	8106856-1530			AML	Brown, soft, fibrous material
			TOTAL:	<1		
11/18/88	ACCBS02021	8106857-1530			AML	Tan, powdery material
			TOTAL:	<1		

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBS02029	2891			GEO	
			TOTAL:	NAFD		

Homogeneous Area Name: Homogeneous Area ID Number: S03
Smooth plaster ceiling - cafe entrances both sides
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBS03029	8106851-1530			AML	White, solid 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: Charles Barrett School
Building: Charles Barrett Elementary
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: S03
Smooth plaster ceiling - cafe entrances both sides
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area:

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBS03030	8106852-1530			AML	Brown, solid material
			TOTAL:	<1		
11/18/88	ACCBS03031	8106853-1530			AML	Brown, grainy material
			TOTAL:	<1		

Homogeneous Area Name: Homogeneous Area ID Number: T01
Boiler jacket - boiler room
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT01001	2880	Chrysotile	15	GEO	
			TOTAL:	15		
04/14/88	ACCBT01002	2879			GEO	
			TOTAL:	NAFD		
04/14/88	ACCBT01003	2878	Chrysotile	02	GEO	
			Amosite	<1	GEO	
			TOTAL:	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: Charles Barrett School
Building: Charles Barrett Elementary
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: T02
Hot water tank jacket - basement storage room by boiler room
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT02004	2884	Chrysotile	25	GEO	
			Amosite	30	GEO	
			TOTAL:	55		
04/14/88	ACCBT02005	2885	Chrysotile	25	GEO	
			Amosite	35	GEO	
			TOTAL:	60		

Homogeneous Area Name: Homogeneous Area ID Number: T03
Pipe insulation - boiler room, crawl space
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT03006	2881	Chrysotile	45	GEO	
			TOTAL:	45		
04/14/88	ACCBT03007	2877	Chrysotile	02	GEO	
			TOTAL:	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: Charles Barrett School
Building: Charles Barrett Elementary
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: T03
Pipe insulation - boiler room, crawl space
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBT03008	8106860-1530	Chrysotile	35-40	AML	Light gray, layered, fibrous material
			TOTAL:	35-40		

Homogeneous Area Name: Homogeneous Area ID Number: T04
Elbow insulation - crawl space, boiler room and throughout school
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT04011	2883	Chrysotile	60	GEO	
			TOTAL:	60		
04/14/88	ACCBT04012	2887	Chrysotile	50	GEO	
			Amosite	10	GEO	
			TOTAL:	60		
04/14/88	ACCBT04013	2888			GEO	
			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: Charles Barrett School
Building: Charles Barrett Elementary
Analysis Method: PLM

Homogeneous Area Name: Homogeneous Area ID Number: T04
Elbow insulation - crawl space, boiler room and throughout school
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT04014	2890			GEO	
			TOTAL:	NAFD		

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBT04QC1	8106861-1530	Chrysotile	40-45	AML	Light gray, fluffy, fibrous material
			TOTAL:	40-45		

Homogeneous Area Name: Homogeneous Area ID Number: T05
Loose debris - on top of boiler; boiler room
Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01

Summary of Bulk Sample Analysis:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT05015	2882	Chrysotile	50	GEO	
			Amosite	15	GEO	
			TOTAL:	65		

See Appendix 1 for Laboratory Information and Certification Statements.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB ~~TO-2 005~~ TØ1 ØØ1

GES LAB NO. 2880

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE GREY POWDERY TO FIBROUS WITH PAINT

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	15
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	52

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	30
Cellulose / Paper or wood fibers	3
Animal hair	
Synthetics	
OTHERS	

COMMENTS PAINT INCLUDED AS BINDER

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST

JOHN P. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB ~~TO-2-004~~ T0100 (MS)

GES LAB NO. 2879

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE LIGHT GREY POWDERY TO FIBROUS

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	< 1
BINDERS	
	62

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	35
Cellulose/Paper or wood fibers	
Animal hair	
Synthetics	3
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST:

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB ~~T0-2~~ T01 003

GES LAB NO. 2878

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE LIGHT GREY POWDERY TO FIBROUS

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	2
Amosite	< 1
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	58

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	40
Cellulose/Paper or wood fibers	
Animal hair	
Synthetics	
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB ~~T06 009~~ T02 004

GES LAB NO. 2884

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE LIGHT GREY TO GREY FIBROUS TO POWDERY

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	25
Amosite	30
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	45

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	
Animal hair	
Synthetics	
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ~~ACCB T06 010~~ T02 005

GES LAB NO. 2885

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE VERY LIGHT BROWN FIBROUS TO POWDERY

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	25
Amosite	35
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	40

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	
Animal hair	
Synthetics	
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods*

MICROANALYST:

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO ACCB T03 006 GES LAB NO 2881

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE GREY FIBROUS TO POWDERY, LOCALLY LIGHT BROWN WOVEN FIBROUS WITH PAINT

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	45
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	30

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	20
Cellulose/Paper or wood fibers	5
Animal hair	
Synthetics	
OTHERS	

COMMENTS PAINT INCLUDED AS BINDERS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods*

MICROANALYST

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ~~ACCB T0-1 002 T03~~ 007

GES LAB NO. 2877

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE BROWN COMPACT FIBROUS TO POWDERY

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	2
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	3

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	95
Animal hair	< 1
Synthetics	
OTHERS	

COMMENTS PAINT INCLUDED AS BINDERS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods*

MICROANALYST

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

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 : 11/21/88
RELEASED : 11/29/88
REPORTED : 11/30/88
WORK ORDER: 7605

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106860	7346-ACCBT03008	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5622		
	PIPE INSULATION-CRAWLSPACE		
	GROSS DESCRIPTION:		
	LIGHT GRAY, LAYERED, FIBROUS MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	35-40	%
	CHRYSOTILE:	35-40	%
	FIBROUS NON-ASBEST:	45-50	%
	CELLULOSE:	40-45	%
	FIBROUS GLASS:	1-5	%
	NON-FIBROUS:	5-10	%
	UNSPECIFIED:	1-5	%
	GYPSUM:	1-5	%
	ANALYST:	Danielle Pearson	

Danielle Pearson

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB ~~TO 5 008~~ T04 011 GES LAB NO. 2883

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE GREY FIBROUS TO POWDERY WITH PAINT

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	60
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	37

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	3
Animal hair	
Synthetics	
OTHERS	

COMMENTS PAINT INCLUDED AS BINDERS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods*

MICROANALYST

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave , Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB ~~107~~ 012 (TEM)

GES LAB NO. 2887

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE LIGHT BROWN FIBROUS TO POWDERY

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	50
Amosite	10
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	40

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	
Animal hair	
Synthetics	
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST:

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB ~~T09 014~~ T04013

GES LAB NO. 2889

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE LIGHT GREY POWDERY TO FIBROUS

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	67

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	30
Cellulose/Paper or wood fibers	3
Animal hair	
Synthetics	
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST:

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO ~~ACCB T09 015~~ ACCB T04 014 GES LAB NO. 2890

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE VERY LIGHT BROWN POWDERY TO FIBROUS

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	65

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	35
Cellulose/Paper or wood fibers	
Animal hair	
Synthetics	
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods*

MICROANALYST:

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB ~~T04 007~~ T05 015 (MD) GES LAB NO. 2882

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE GREY TO LIGHT GREY FIBROUS TO POWDERY

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	50
Amosite	15
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	35

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	
Animal hair	
Synthetics	
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB S01 ~~011~~ 016

GES LAB NO. 2886

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE LIGHT BROWN PLATY TO POWDERY

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	55
BINDERS	
	45

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	
Animal hair	
Synthetics	
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

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 : 11/21/88
RELEASED : 11/29/88
REPORTED : 11/30/88
WORK ORDER: 7605

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106858	7346-ACCB~~501~~501017	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5620		
	TROWELED PLASTER CEILING-WATER HEATER TANK ROOM		
	GROSS DESCRIPTION:		
	BROWN, GRAINY, MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	10-15	%
	CELLULOSE:	10-15	%
	NON-FIBROUS:	80-85	%
	UNSPECIFIED:	30-35	%
	MICA/VERMICULITE:	20-25	%
	QUARTZ:	10-15	%
	GYPSUM:	5-10	%
	NOTES:	No asbestiform minerals observed.	
	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 : 11/21/88
RELEASED : 11/29/88
REPORTED : 11/30/88
WORK ORDER: 7605

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106859	7346-ACCBS01018	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5621		
	TROWELED PLASTER CEILING-WATER HEATER TANK ROOM		
	GROSS DESCRIPTION:		
	BROWN, EASILY CRUSHED, MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	5-10	%
	CELLULOSE:	5-10	%
	NON-FIBROUS:	85-90	%
	UNSPECIFIED:	30-35	%
	MICA/VERMICULITE:	20-25	%
	QUARTZ:	5-10	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	
	ANALYST:	Danielle Pearson	

Danielle Pearson

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO ACCB SO2 ~~016~~ 019

GES LAB NO 2891

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE BROWN FIBROUS TO POWDERY

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	10

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	90
Animal hair	
Synthetics	
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST:

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

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 : 11/21/88
RELEASED : 11/28/88
REPORTED : 11/29/88
WORK ORDER: 7599

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106856	7346-ACCBS-02020	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5638		
	TEXTURED WALL MATERIAL DAY CARE CENTER ROOM 3		
	GROSS DESCRIPTION:		
	BROWN, SOFT, FIBROUS MATERAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	35-40	%
	CELLULOSE:	35-40	%
	NON-FIBROUS:	55-60	%
	UNSPECIFIED:	45-50	%
	GYPSUM:	5-10	%
	NOTES:	No asbestiform minerals observed.	
	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

PAGE 10 M

RECEIVED : 11/21/88
RELEASED : 11/28/88
REPORTED : 11/29/88
WORK ORDER: 7599

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER	VALUE	UNITS
8106857	7346-ACCBS-02021	BULK SAMPLE
1530	ASBESTOS BULK ANALYSIS	
	SAMPLE DESCRIPTION	
	SITE OR LOCATION:	
	7346-5639	
	TEXTURED WALL MATERIAL DAY CARE CENTER ROOM 3	
	GROSS DESCRIPTION:	
	TAN, POWDERY, MATERIAL	
	HOMOGENEOUS:	YES
	TOTAL % ASBESTOS:	<1 %
	FIBROUS NON-ASBEST:	5-10 %
	CELLULOSE:	5-10 %
	NON-FIBROUS:	85-90 %
	UNSPECIFIED:	30-35 %
	QUARTZ:	35-40 %
	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 1140]-[S 6033] NOTE: Patient name has been moved to the top line.

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D NO. ACCB MO-1 ~~001~~ 022

GES LAB NO. 2876

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE BROWN COMPACT FIBROUS WITH PAINT

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	5

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	95
Animal hair	
Synthetics	
OTHERS	

COMMENTS PAINT INCLUDED AS BINDERS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods*

MICROANALYST

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO ACCB M02 ~~013~~ 03

GES LAB NO. 2888

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE LIGHT BROWN CEMENTED HARD COMPACT SILTY TO GRANULAR WITH FIBERS

ASBESTOS FIBERS	PERCENT BY VOLUME VISUALLY ESTIMATED*
Chrysotile	
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	65

NON ASBESTOS FIBERS	PERCENT BY VOLUME VISUALLY ESTIMATED*
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	< 1
Animal hair	
Synthetics	
OTHERS	
AGGREGATE	35

COMMENTS NO ASBESTOS DETECTED

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB M03 ~~017~~ 021

GES LAB NO. 2892

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE BLACK HARD COMPACT SILTY

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	100

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	
Animal hair	
Synthetics	
OTHERS	

COMMENTS

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods*

MICROANALYST

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

GEO-ENVIRONMENTAL SERVICES, INC.
444 N. Frederick Ave., Suite L-148
Gaithersburg, MD 20877-2432

GES JOB NO. BSA-107-2-1

DATE 4-22-88

BULK SAMPLE ANALYSIS

PROJECT NAME ACCB SAMPLES

CLIENT NAME A. F. MEYER & ASSOCIATES, INC.

SAMPLE I.D. NO. ACCB M04 ~~018~~ P25

GES LAB NO. 2893

SAMPLE LOCATION NOT GIVEN

GROSS SAMPLE APPEARANCE LIGHT BROWN CEMENTED HARD COMPACT SILTY TO GRANULAR

	PERCENT BY VOLUME VISUALLY ESTIMATED*
ASBESTOS FIBERS	
Chrysotile	
Amosite	
Crocidolite	
Actinolite	
Tremolite	
Anthophyllite	
NON FIBROUS MATERIALS	
Perlite	
Vermiculite	
BINDERS	
	70

	PERCENT BY VOLUME VISUALLY ESTIMATED*
NON ASBESTOS FIBERS	
Glass fibers	
Mineral Wool	
Cellulose/Paper or wood fibers	
Animal hair	
Synthetics	
OTHERS	
AGGREGATE	30

COMMENTS NO ASBESTOS DETECTED

** Sample components are identified by polarized light microscopy coupled with dispersion staining methods.*

MICROANALYST:

JOHN T. RAZZOLINI

It is certified by the signature above that the laboratory identified is accreditated by the National Bureau of Standards or has received interim accreditation for polarized light microscope (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program.

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 : 11/21/88
RELEASED : 11/28/88
REPORTED : 11/29/88
WORK ORDER: 7599

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106848	7346-ACCB-M05026	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5630		
	2'X2' ACCOUSTICAL CEILING/LOBBY		
	GROSS DESCRIPTION:		
	TAN, LAYERED, FIBROUS MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	75-80	%
	CELLULOSE:	5-10	%
	FIBROUS GLASS:	65-70	%
	NON-FIBROUS:	15-20	%
	UNSPECIFIED:	10-15	%
	GYPSUM:	1-5	%
	NOTES:	No asbestiform minerals observed.	
	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 : 11/21/88
RELEASED : 11/28/88
REPORTED : 11/29/88
WORK ORDER: 7599

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106849	7346-ACCBM-06027	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5631		
	1' WHITE VT LOBBY		
	GROSS DESCRIPTION:		
	WHITE, EASILY BROKEN, MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	20-25	%
	CELLULOSE:	10-15	%
	FIBROUS GLASS:	5-10	%
	NON-FIBROUS:	70-75	%
	UNSPECIFIED:	25-30	%
	QUARTZ:	20-25	%
	CALCITE:	15-20	%
	NOTES:	No asbestiform minerals observed.	
	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 : 11/21/88
RELEASED : 11/28/88
REPORTED : 11/29/88
WORK ORDER: 7599

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106850	7346-ACCBM-07028	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5632		
	1X1 ACCOUSTICAL CEILING-CAFETERIA LOBBY		
	GROSS DESCRIPTION:		
	WHITE, SOFT, FIBROUS MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	60-65	%
	CELLULOSE:	10-15	%
	FIBROUS GLASS:	45-50	%
	NON-FIBROUS:	30-35	%
	UNSPECIFIED:	10-15	%
	CALCITE:	15-20	%
	NOTES:	No asbestiform minerals observed.	
	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 : 11/21/88
RELEASED : 11/28/88
REPORTED : 11/29/88
WORK ORDER: 7599

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106851	7346-ACCBS-03029	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5633		
	SMOOTH PLASTER CEILING-RIGHT CAFE ENTRANCE		
	GROSS DESCRIPTION:		
	WHITE, SOLID, MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	5-10	%
	CELLULOSE:	1-5	%
	FIBROUS GLASS:	1-5	%
	NON-FIBROUS:	85-90	%
	UNSPECIFIED:	35-40	%
	QUARTZ:	15-20	%
	CALCITE:	5-10	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	
	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 : 11/21/88
RELEASED : 11/28/88
REPORTED : 11/29/88
WORK ORDER: 7599

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106852	7346-ACCBS-03030	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5634		
	SMOOTH PLASTER CEILING-LEFT CAFE ENTRANCE		
	GROSS DESCRIPTION:		
	BROWN, SOLID, MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	1-5	%
	CELLULOSE:	1-5	%
	NON-FIBROUS:	90-95	%
	UNSPECIFIED:	40-45	%
	QUARTZ:	15-20	%
	CALCITE:	5-10	%
	GYPSUM:	15-20	%
	NOTES:	No asbestiform minerals observed.	
	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 : 11/21/88
RELEASED : 11/28/88
REPORTED : 11/29/88
WORK ORDER: 7599

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106853	7346-ACCBS-03031	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5635		
	SMOOTH PLASTER CEILING-STAIR LANDING		
	GROSS DESCRIPTION:		
	BROWN, GRAINY, MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	10-15	%
	CELLULOSE:	10-15	%
	NON-FIBROUS:	80-85	%
	UNSPECIFIED:	25-30	%
	QUARTZ:	25-30	%
	GYPSUM:	20-25	%
	NOTES:	No asbestiform minerals observed.	
	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 : 11/21/88
RELEASED : 11/28/88
REPORTED : 11/29/88
WORK ORDER: 7599

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106854	7346-ACCBM-08032	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5636		
	1' TAN FLOOR TILE ART ROOM		
	GROSS DESCRIPTION:		
	TAN, EASILY BROKEN, MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	15-20	%
	CELLULOSE:	15-20	%
	NON-FIBROUS:	75-80	%
	UNSPECIFIED:	25-30	%
	QUARTZ:	20-25	%
	CALCITE:	5-10	%
	GYPSUM:	10-15	%
	NOTES:	No asbestiform minerals observed.	
	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

RECEIVED : 11/21/88
RELEASED : 11/28/88
REPORTED : 11/29/88
WORK ORDER: 7599

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106855	7346-ACCBM-09033	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5637		
	9" BROWN FLOOR TILE AUDITORIUM		
	GROSS DESCRIPTION:		
	BROWN, EASILY BROKEN, MATERAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	<1	%
	FIBROUS NON-ASBEST:	5-10	%
	CELLULOSE:	5-10	%
	NON-FIBROUS:	85-90	%
	UNSPECIFIED:	25-30	%
	QUARTZ:	30-35	%
	CALCITE:	10-15	%
	GYPSUM:	5-10	%
	NOTES:	No asbestiform minerals observed.	
	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 : 04/26/88
RELEASED : 05/02/88
REPORTED : 05/03/88
WORK ORDER: 30

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
8078639	~~ACCBM04QC1~~ ACCBM04QC2	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
CALLED	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	ACCB M04-QC1		
	GROSS DESCRIPTION:		
	TAN TILE		
	TOTAL % ASBESTOS:	<1	%
	CHRYSOTILE:	T	%
	NON-FIBROUS:	95-100	%
	UNSPECIFIED:	20-25	%
	CALCITE:	70-75	%
	ANALYST:	ELSIE O. SHARON	

Elsie O Sharon

Analysis performed by trained asbestos analyst using polarized light microscopy with dispersion staining.

*** FINAL REPORT ***

FRED I. GRUNDER
TECHNICAL DIRECTOR, IND. HYGIENE

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 : 11/21/88
RELEASED : 11/29/88
REPORTED : 11/30/88
WORK ORDER: 7605

7346 A. F. MEYER, VIRGINIA
ATTN: JORGE RANGEL
#700, 6845 ELM STREET
MCLEAN , VA
22101

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER		VALUE	UNITS
8106861	7346-ACCBT04QC1	BULK SAMPLE	
1530	ASBESTOS BULK ANALYSIS		
	SAMPLE DESCRIPTION		
	SITE OR LOCATION:		
	7346-5623		
	ELBOW INSULATION-CRAWLSPACE		
	GROSS DESCRIPTION:		
	LIGHT GRAY, FLUFFY, FIBROUS MATERIAL		
	HOMOGENEOUS:	YES	
	TOTAL % ASBESTOS:	40-45	%
	CHRYSOTILE:	40-45	%
	FIBROUS NON-ASBEST:	25-30	%
	CELLULOSE:	15-20	%
	FIBROUS GLASS:	5-10	%
	NON-FIBROUS:	20-25	%
	UNSPECIFIED:	10-15	%
	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 1569]-[S 6177] NOTE: Patient name has been moved to the top line.

IRA D. GODWIN, M.D.
DIRECTOR OF LABORATORIES

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

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 - all

Homogeneous Area ID Number : M10

Field Documents:
Sample Area :
Homogeneous Area: ACCBHA02
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 - Medium.
Fire doors are in accessible locations in occupied areas of the school.

POTENTIAL FOR VIBRATION DISTURBANCE - Medium.
Intermittant opening and closing of doors contributes to vibration of ACM.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
No appreciable effect.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory Comments

*** ASSUMED POSITIVE - NO ADDITIONAL SAMPLES COLLECTED ***

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

A S S E S S M E N T O F
M A T E R I A L S

Homogeneous Area Name: Flexible cloth vibration connectors

Homogeneous Area ID Number : M11

Field Documents:
Sample Area :
Homogeneous Area: ACCBHA01
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.
Contact should not disturb undamaged connectors.

POTENTIAL FOR VIBRATION DISTURBANCE - Medium.
Continual vibration when AHU unit is in operation could cause a potential disturbance.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
Air movement should not affect undamaged connectors.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory Comments

*** ASSUMED POSITIVE - NO ADDITIONAL SAMPLES COLLECTED ***

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

A S S E S S M E N T O F
M A T E R I A L S

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

Homogeneous Area Name:
Boiler jacket - boiler room

Homogeneous Area ID Number : T01

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP01

Estimated Amount of Material: 1 EA

ASSESSMENT CATEGORY # 5
SPECIFIC DESCRIPTION:Non-Damaged, Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
Contact and access are both limited, and should pose no threat to undamaged insulation.

POTENTIAL FOR VIBRATION DISTURBANCE - Medium.
Continual vibration to ACM in jacket when boiler is in operation, but should pose no threat to undamaged insulation.

POTENTIAL FOR AIR EROSION/DISTURBANCE - Yes.
There is minor air movement, but it should not pose a significant threat.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT01001	2880	Chrysotile	15	GEO	
			TOTAL:	15		
04/14/88	ACCBT01002	2879			GEO	
			TOTAL:	NAFD		
04/14/88	ACCBT01003	2878	Chrysotile	02	GEO	
			Amosite	<1	GEO	
			TOTAL:	02		

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

A S S E S S M E N T O F
M A T E R I A L S

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

Homogeneous Area Name:
Hot water tank jacket - basement storage room by boiler room

Homogeneous Area ID Number : T02

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP02

Estimated Amount of Material: 1 EA

ASSESSMENT CATEGORY # 7
SPECIFIC DESCRIPTION:Non-Damaged, Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE - None Observed.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Low.
Contact should not have any significant effect to jacket unless contact is severe enough to puncture or degrade the integrity of the jacket.

POTENTIAL FOR VIBRATION DISTURBANCE - Low.
Vibration will have no significant effect on undamaged jacket insulation.

POTENTIAL FOR AIR EROSION/DISTURBANCE - None.
Air current will not affect undamaged insulation.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT02004	2884	Chrysotile	25	GEO	
			Amosite	30	GEO	
			TOTAL:	55		
04/14/88	ACCBT02005	2885	Chrysotile	25	GEO	
			Amosite	35	GEO	
			TOTAL:	60		

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

A S S E S S M E N T O F
M A T E R I A L S

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

Homogeneous Area Name:
Pipe insulation - boiler room, crawl space

Homogeneous Area ID Number : T03

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP03

Estimated Amount of Material: 150 LF

ASSESSMENT CATEGORY # 1
SPECIFIC DESCRIPTION: Damaged, Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE
Extensive damage to pipe insulation in crawl space; all other pipe insulation appears in fair to good shape.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Medium.
Contact of any type to crawl space pipe insulation will cause a fiber release; contact to all other undamaged pipe insulation will not have any significant effect.

POTENTIAL FOR VIBRATION DISTURBANCE - Medium.
Vibration is an immediate potential for disturbance to crawl space insulation; it will not, however, have any significant effect on undamaged insulation.

POTENTIAL FOR AIR EROSION/DISTURBANCE - Yes.
Air will stir loose fibers from damaged insulation in crawl space.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT03006	2881	Chrysotile	45	GEO	
			TOTAL:	45		
04/14/88	ACCBT03007	2877	Chrysotile	02	GEO	
			TOTAL:	02		

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

A S S E S S M E N T O F
M A T E R I A L S

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

Homogeneous Area Name:
Pipe insulation - boiler room, crawl space

Homogeneous Area ID Number : T03

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP03

Estimated Amount of Material: 150 LF

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBT03008	8106860-1530	Chrysotile	35-40	AML	Light gray, layered, fibrous material
			TOTAL:	35-40		

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

A S S E S S M E N T O F
M A T E R I A L S

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

Homogeneous Area Name:
Elbow insulation - crawl space, boiler room and throughout school

Homogeneous Area ID Number : T04

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP04

Estimated Amount of Material: 400 EA

ASSESSMENT CATEGORY # 1
SPECIFIC DESCRIPTION: Damaged, Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE
Extensive deteriorization and water damage to elbows in crawl space; all visible elbows in remaining areas of school appear in fair to good shape.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - Medium.
Any contact to crawl space elbows will cause an immediate potential for disturbance; contact to undamaged elbow in remaining areas of school will have no significant effect.

POTENTIAL FOR VIBRATION DISTURBANCE - Medium.
Vibration will create immediate potential for disturbance to damaged elbows, but will have very little effect on elbows in good shape.

POTENTIAL FOR AIR EROSION/DISTURBANCE - Yes.
Air is an immediate disturbance factor to damaged crawl space elbows, but will have no effect on undamaged elbows throughout remainder of school.

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT04011	2883	Chrysotile	60	GEO	
			TOTAL:	60		

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

A S S E S S M E N T O F M A T E R I A L S

Homogeneous Area Name:
Elbow insulation - crawl space, boiler room and throughout school

Homogeneous Area ID Number : T04

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP04

Estimated Amount of Material: 400 EA

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT04012	2887	Chrysotile	50	GEO	
			Amosite	10	GEO	
			TOTAL:	60		
04/14/88	ACCBT04013	2888			GEO	
			TOTAL:	NAFD		
04/14/88	ACCBT04014	2890			GEO	
			TOTAL:	NAFD		
Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
11/18/88	ACCBT04QC1	8106861-1530	Chrysotile	40-45	AML	Light gray, fluffy, fibrous material
			TOTAL:	40-45		

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: Charles Barrett Elementary

A S S E S S M E N T O F
M A T E R I A L S

Homogeneous Area Name:
Loose debris - on top of boiler; boiler room

Homogeneous Area ID Number : T05

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph :

Estimated Amount of Material: 1 SF

ASSESSMENT CATEGORY # 1
SPECIFIC DESCRIPTION: Damaged, Friable Thermal System Insulation

INSPECTOR COMMENTS:

DESCRIPTION OF DAMAGE
Several small pieces of loose debris in piles of dust are laying on top of the boiler.

POTENTIAL FOR CONTACT/ACCESS DISTURBANCE - High.
Any contact will immediately stir up fibers and cause a fiber release episode.

POTENTIAL FOR VIBRATION DISTURBANCE - High.
Any vibration will likewise cause a fiber release.

POTENTIAL FOR AIR EROSION/DISTURBANCE - Yes.
Wind is an extreme disturbance factor due to the nature of the damage (debris and dust).

Positive Sample Results:

Sample Date	AFMA Sample ID	Laboratory ID	Asbestos	Percent	Laboratory	Comments
04/14/88	ACCBT05015	2882	Chrysotile	50	GEO	
			Amosite	15	GEO	
			TOTAL:	65		

Inspector: Mark Painter
Accreditation Number: WLA10713887

Signature: Mark Painter Date: 12/05/88
Agency: White Lung Association

KEY

for

ACBM Assessment Categories

Category 1: Damaged or significantly damaged thermal system insulation ACBM.

Category 2: Damaged friable surfacing ACBM.

Category 3: Significantly damaged friable surfacing ACBM.

Category 4: Damaged and significantly damaged friable miscellaneous ACBM.

Category 5: ACBM with potential for damage.

Category 6: ACBM with potential for significant damage.

Category 7: Any remaining friable ACBM or friable suspected ACBM.

AHERA MANAGEMENT PLAN
BUILDING CHARLES BARRETT

ALEXANDRIA CITY PUBLIC SCHOOLS
POSITIVE SAMPLING SUMMARY

MATERIAL DESCRIPTION	TOTAL AMOUNT	MATERIAL LOCATION	HAZARD POTENTIAL	CONDITION	% ASBESTOS	ESTIMATED COST		STATUS
						REMOVE	REPLACE	
FIRE DOORS M10	ALL	HALLWAYS	MEDIUM	NON-FRIABLE	?	8		MONITOR
VIBRATION ISOLATORS M11	ALL	AIR HANDLING UNITS	MEDIUM	NON-FRIABLE	?	8		MONITOR
BOILER INSULATION T01	1 EACH	BOILER ROOM	MEDIUM	FRIABLE	15	$14,200 7	$1900	ENCAP
HOT WATER TANK INSULATION T02	1 EACH	BSMT STORAGE RM ADJ TO BOILER RM	LOW	FRIABLE	60	$12,500 8	$1100	ENCAP
PIPE INSULATION T03	150 LF	BOILER ROOM & CRAWL SPACE	MEDIUM	FRIABLE	45	$30,900 1	$300	MONITOR
PIPE ELBOW INSULATION T04	400 EA	BOILER ROOM & CRAWL SPACE	MEDIUM	FRIABLE	60	$69,100 2	$420	MONITOR
LOOSE DEBRIS T05	1 SF	BOILER ROOM	HIGH	FRIABLE	65	$7,500	$0	REMOVED 1/89

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: Charles Barrett School
Building: Charles Barrett Elementary
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Fire doors - all

Homogeneous Area ID Number : M10

Estimated Amount of Material: ALL
LEA Response Action Priority: 8

Field Documents:
Sample Area :
Homogeneous Area: ACCBHA02
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: John Love
Accreditation Number: 8802-02-100

Signature: [signature] Date:12/06/88
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: Charles Barrett School
Building: Charles Barrett Elementary
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Flexible cloth vibration connectors

Homogeneous Area ID Number : M11

Estimated Amount of Material: ALL
LEA Response Action Priority: 8

Field Documents:
Sample Area :
Homogeneous Area: ACCBHA01
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: October, 1992
PREVENTIVE MEASURES:

See DOCUMENT I. 3 for O&M recommendations.

Management Planner: John Love
Accreditation Number: 8802-02-100

Signature: [signature] Date:12/06/88
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: Charles Barrett School
Building: Charles Barrett Elementary
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Boiler jacket - boiler room

Homogeneous Area ID Number : T01

Estimated Amount of Material: 1 EA
LEA Response Action Priority: 7

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP01

RECOMMENDED RESPONSE ACTION: Accept_____ Reject X
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept X Reject_____
1) Include this area in all O&M activities.
2) Refer to O&M Program part 6.0 Periodic Surveillance.
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: $14,133.00
Replacement Cost : $1,804.00

PREVENTIVE MEASURES:

See DOCUMENT I. 4 for O&M recommendations.

Management Planner: John Love
Accreditation Number: 8802-02-100

Signature: [signature] Date:12/06/88
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: Charles Barrett School
Building: Charles Barrett Elementary
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Hot water tank jacket - basement storage room by boiler room

Homogeneous Area ID Number : T02
Estimated Amount of Material: 1 EA
LEA Response Action Priority: 8

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP02

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_X_
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept_X_ Reject_____
1) Refer to O&M Program part 6.0 Periodic Surveillance.
2) 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. 5 for O&M recommendations.

Management Planner: John Love
Accreditation Number: 8802-02-100

Signature: [signature] Date:12/06/88
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: Charles Barrett School
Building: Charles Barrett Elementary
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Pipe insulation - boiler room, crawl space

Homogeneous Area ID Number : T03
Estimated Amount of Material: 150 LF
LEA Response Action Priority: 2

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP03

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_X_
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept_X_ Reject_____
1) Repair the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED.
3) Maintain thermal system insulation in an intact and undamaged condition.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $30,862.50
Replacement Cost : $252.00

PREVENTIVE MEASURES:
Pick up all loose insulation from crawl space; HEPA-VAC immediate area to eliminate as many fibers as possible.

See DOCUMENT I. 6 for O&M recommendations.

Management Planner: John Love
Accreditation Number: 8802-02-100

Signature: John B Love Date:12/06/88
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: Charles Barrett School
Building: Charles Barrett Elementary
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Elbow insulation - crawl space, boiler room and throughout school

Homogeneous Area ID Number : T04
Estimated Amount of Material: 400 EA
LEA Response Action Priority: 2

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph : ACCBP04

RECOMMENDED RESPONSE ACTION: Accept_____ Reject_X_
1) Remove the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED

OPTIONAL RESPONSE ACTION: Accept_X_ Reject_____
1) Repair the material.
2) Refer to DOCUMENT J. RESOURCES NEEDED.
3) Maintain thermal system insulation in an intact and undamaged condition.

RESPONSE ACTION SCHEDULE: Begin: July 9, 1989 End: October, 1992

REMOVAL COST ESTIMATE:
Abatement and Disposal: $69,039.00
Replacement Cost : $4,200.00

PREVENTIVE MEASURES:
Clean up (pick up) any loose or damaged debris; HEPA-VAC immediate area to eliminate any remaining fibers.

See DOCUMENT I. 7 for O&M recommendations.

Management Planner: John Love
Accreditation Number: 8802-02-100

Signature: [signature] Date:12/06/88
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: Charles Barrett School
Building: Charles Barrett Elementary
Total Removal Cost: See Document G.S

Homogeneous Area Name:
Loose debris - on top of boiler; boiler room

Homogeneous Area ID Number : T05
Estimated Amount of Material: 1 SF
LEA Response Action Priority: 2

Field Documents:
Sample Area : ACCBSA01
Homogeneous Area: ACCBHA01
Photograph :

RECOMMENDED RESPONSE ACTION: Accept X Reject_____
1) Remove 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: $7,421.40
Replacement Cost : $0.00

PREVENTIVE MEASURES:
Pick up pieces of debris; HEPA-VAC entire area to pick up or eliminate any fibers or dust that remain.

See DOCUMENT I. 8 for O&M recommendations.

Management Planner: John Love
Accreditation Number: 8802-02-100

Signature: John B Love Date:12/06/88
Agency: Tufts University

Virginia Department of Education
Energy and Facilities Services

LEA: Alexandria City Public Schools
School: Charles Barrett School
Building: See Below

R E M O V A L C O S T
S U M M A R Y

BUILDING NAME: Charles Barrett Elementary

HOMOGENEOUS AREA ID	REMOVAL	REPLACEMENT
T01	$14,133.00	$1,804.00
T02	$12,485.00	$1,084.00
T03	$30,862.50	$252.00
T04	$69,039.00	$4,200.00
T05	$7,421.41	$0.00
TOTAL FOR Charles Barrett Elementary	$133,940.91	$7,340.00

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: Charles Barrett School
Building: See Below

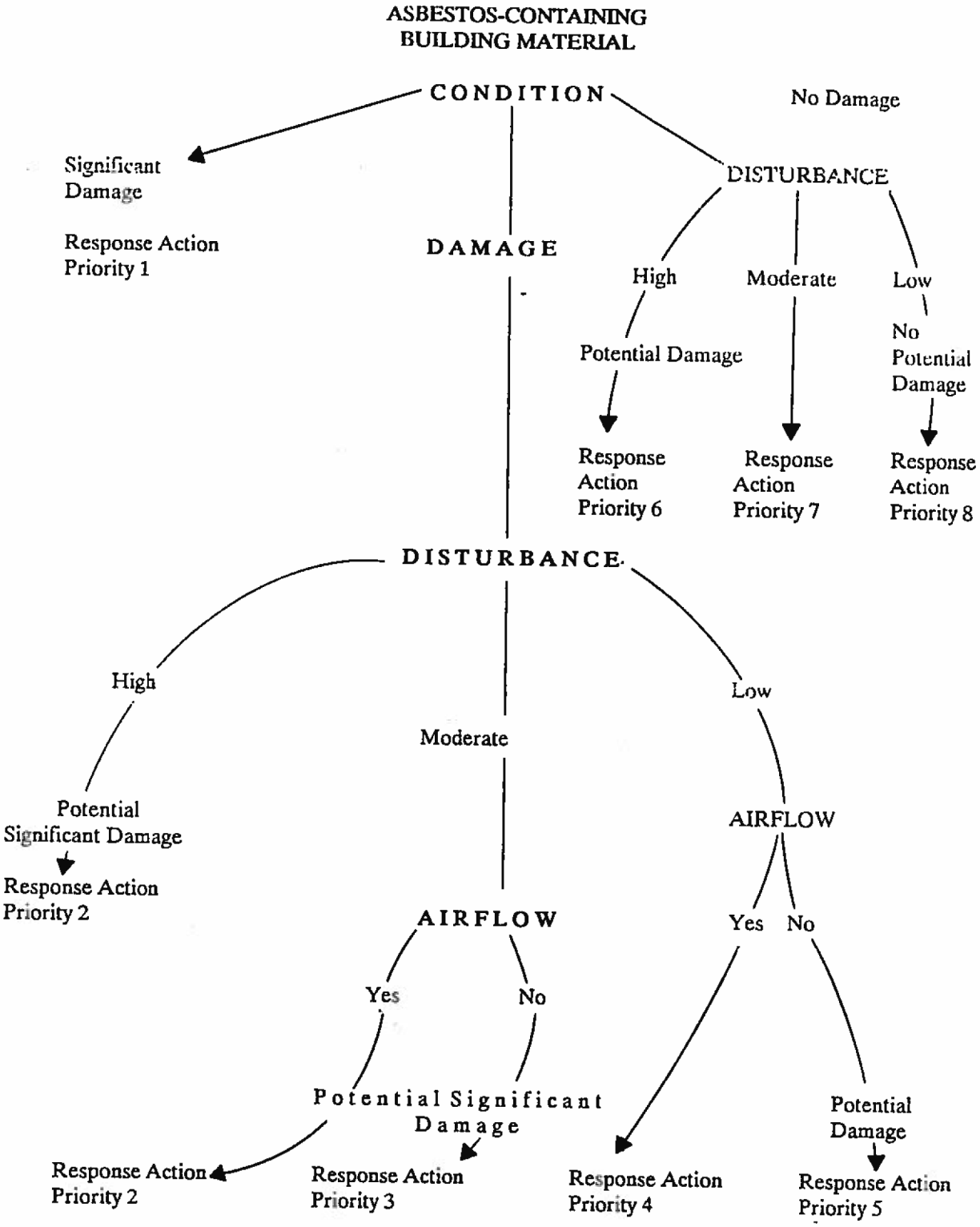
R E M O V A L C O S T
S U M M A R Y

BUILDING NAME: Charles Barrett School

HOMOGENEOUS AREA ID	EST. AMOUNT OF MATERIAL	REMOVAL	REPLACEMENT
M10-Fire Doors	27 ea	$ 10,800.00	$ 5,400.00
M11-Flex Connector	12 ea	960.00	1,872.00
TOTAL From Previous Document G.S.1		133,940.91	7,340.00
TOTAL for Charles Barrett School		$145,700.91	$14,612.00

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.



Response Action Priority Key

Alexandria City Public Schools
3 Year AHERA Reinspection
Charles Barrett Elementary School
April 14, 1992

In accordance with paragraph 763.85(b)(1) of the Asbestos Hazard Emergency Response Act (AHERA), the Charles Barrett Elementary 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 (ACBM) that were identified by A. F. Meyer in their initial inspection of April 14, 1988 were reinspected.

Several areas of thermal system insulation was located during the original inspection and entered into the Management Plan. The first of these (T01) is the boiler jacket in the boiler room. This jacket shows very minor damage (< 1%) and is in excellent condition. The original assessment of "ACBM with potential for damage" is unchanged.

The jacket on the hot water heater, however is friable. There is no damage, so the assessment is Category 7 (other ACBM). Because of it's friability extra care must be taken with the hot water heater.

T03 and T04 are pipe insulation and elbow insulation located throughout the boiler room, crawl space, and school proper. Most of this material shows some damage in various areas but there is nothing major. The assessment remains Category 1 (Damaged TSI).

T05, however, is significantly damaged. The original Management Plan listed its location "on top of the boiler" when in fact it is on top of the vent leading from the boiler. The assessment of T05 is changed to "Significantly Damaged TSI." The material serves no useful purpose and should be removed as soon as possible.

Both the fire doors (M10) and the flexible cloth connectors (M1$) were assumed to contain asbestos and assessed as Category 5 (ACBM with potential for damage). There is no damage as of yet, however the potential remains. No change in assessment.

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

MasiMax
Resources, Inc.

THREE-YEAR REINSPECTION OF ASBESTOS-CONTAINING MATERIALS
ALEXANDRIA CITY PUBLIC SCHOOL SYSTEMS (ACPS)
Charles Barrett 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 Charles Barrett Elementary School on June 29, 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

CHECKLIST FOR ALEXANDRIA CITY PUBIC SCHOOLS AHERA MANAGEMENT PLANS

SCHOOL NAME: Charles Barrett

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: William 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: Also did not have record for Boiler Room abatement.

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 present.

Yes No

☐ ■ 6-Month O&M Inspections

Comments: Only Jan 1990 6 month inspection present.

Inspector (s): Bjarne Smith and Amy Chang Date: 6/29/2007

Management Planner: _____ Date: 07/21/2007

City of Alexandria - AHERA Inspection

School **Charles Barrett** Date 6/29/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Aud. Stairwells	Glue dots		Brown			Good condition		No	No	NA	N/A	N/A	O & M
Aud. Stairwells	Floor Tile	9x9	Black	All	SF	Material was removed	5	No	No	N/A	N/A	N/A	N/A
Auditorium gallery under seats, cafeteria stairwells leading to stage, 2nd flr. JC next to room 20	Floor Tile	9x9	Maroon	unk	SF	Covered with carpet and/or removed	5	No	No	N/A	N/A	N/A	O & M
Auditorium stage area	Floor Tile	9x9	Light brown	unk	SF	May be under grey floor tile	5	No	No	N/A	N/A	N/A	O & M
Boiler Room	Debris	debris	White	1	SF	Removed 2003	5	No	No	N/A	N/A	N/A	N/A

City of Alexandria - AHERA Inspection

School **Charles Barrett** Date 6/29/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Boiler Room	TSI-boiler insulation	ALL	N/A	1	EA	Removed 2003	5	No	No	N/A	N/A	N/A	N/A
Boiler Room Annex	TSI-tank insulation	ALL	White	1	EA	Removed 2003	5	No	No	N/A	N/A	N/A	N/A
Boiler room crawl & thruout, kitchen JC, kitchen bathroom	TSI-elbows, joints	4 in, 6 in	Tan	400	EA	Removed 2003	5	No	No	N/A	N/A	N/A	N/A
Boiler Room crawl space	TSI-pipe runs	6 in	Gray, brown	150	LF	Material was removed	5	No	No	N/A	N/A	N/A	N/A
Cafeteria stair wells	Floor Tile	9x9	Brown		SF	4 sf remain, significant damage	5	No	Yes	N/A	4 SF	N/A	O & M

City of Alexandria - AHERA Inspection

School **Charles Barrett** Date 6/29/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
E. Cafeteria stairwell	Adhesive divot	ALL	Brown	ALL	ALL	Exposed in some places	0	No	Yes	* Various	Various	Localized	Repair/Remove
Ground flr. Boiler Room	Boiler breaching insulation	small	White/gray	<55	SF	Removed in 2003	5	No	No	No	N/A	N/A	N/A
Janitor's closet by room 20	Floor Tile	9x9	Maroon	All	SF	Damaged	5	No	Yes	where exposed	4 SF	Impact	Repair/O & M
Kitchen area	TSI-pipe runs	3 in	Tan	60	LF	Kitchen Bathroom Inaccessible	1	No	Yes	N/A	N/A	N/A	O & M
Kitchen storeroom	Floor Tile	9x9	Black	300	SF	Unable to Locate	5	No	Yes	store room	1 SF	Abrasion	O & M

City of Alexandria - AHERA Inspection

School **Charles Barrett** Date 6/29/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Room 5 of Ground flr. Kindergarten wing	Vibration Damper	ALL	White	1	EA	Unable to Locate	5	No	No	N/A	N/A	N/A	O & M
Room 5 of Ground flr. Kindergarten wing	Glue Dots		Brown			Good condition		No	No	N/A	N/A	N/A	O & M
Room 8 on 2nd flr.	Mastic on foil wrap duct insulation	ALL	White	ALL	ALL	Removed	0	No	No	N/A	N/A	N/A	N/A
Room 8 on 2nd flr.	Glue dots		Brown			Good condition		No	No	N/A	N/A	N/A	O & M
Room with hot water tank	Mastic applied to FG collar end on insulated pipe	ALL	White	ALL	ALL	Removed in 2003	0	No	No	N/A	N/A	N/A	N/A

City of Alexandria - AHERA Inspection

School **Charles Barrett** Date 6/29/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Throughout	Vibration Damper	ALL	White	1	ALL	Removed 2003	7	Yes	No	N/A	N/A	N/A	N/A
Throughout	Fire Doors	door	Various	ALL	ALL	Intact	5	No	No	N/A	N/A	N/A	O & M

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

LETTER OF TRANSMITTAL

August 23, 2019

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

ATTN: John Finnigan

RE: **ACPS (George Washington/Charles Barrett/Cora Kelly)**

ECS Job # **47:1519-C7**

Permits:

Location: **1005 Mount Vernon Avenue Arlington, VA**

We are enclosing: **X** Field Reports **X** For your use **X** As requested

CC: **Waco Inc. - Chris Lanham**

ENCL:

Field Report # 6 08/20/2019

Diana D. Krass
Environmental Senior Project Manager

Bobby Rhett
Environmental 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 recorded 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 No.	47:1519-C7
Report No.	6
Day & Date	Tuesday 08/20/2019
Weather	84°/ Sunny
On-Site Time	11.25
Lab Time	0.00
Travel Time*	0.00
Total	11.25
Re Obs.Time	0.00

Project **ACPS (George Washington/Charles Barrett/Cora Kelly)**
Location **Arlington, VA**
Client **Alexandria City Public Schools - John Finnigan**
Contractor **Waco Inc. - Chris Lanham**

Remarks

Trip Charges* Tolls/Parking* Mileage*

Chargeable Items

Time of Arrival Departure
08:00A 07:15P

* 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 at Charles Bartlett Elementary School, as requested, to perform air monitoring and observe asbestos abatement. The materials to be removed today are asbestos-containing floor tiles and associated mastic in Room 104. Photographs for today's regulated work area are attached to this report.

ROOM 104 WORK AREA MONITORING

Prior to starting the removal of the specified materials, the abatement contractor employees were asked to provide their asbestos abatement licenses for review. No workers were found to be without valid asbestos abatement licenses.

Prior to starting the removal of the specified materials the abatement notification was reviewed. The notification was on-site and the removal of the specified materials could begin.

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.

Between 10:30 am and 10:32 am, PCM air samples were started outside the work area at the decontamination unit entry and adjacent to the negative air filtration unit exhaust. A PCM sample was also started inside the work area. The sampling pumps were calibrated using a rotameter to 2.5 liters per minute. The abatement workers were removing carpet and floor tiles using hand tools.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags which were double-bagged and sealed in general accordance with applicable regulations. Waste bags were labeled and placed in the abatement contractor's vehicle for transport.

Between 2:30 pm and 2:32 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.

The abatement contractor stated the specified materials had been removed from the regulated work area and requested a visual survey to confirm compliance. The Final Clearance Visual Survey Checklist was completed and is attached to this report.

Following the successful completion of the final clearance visual survey, the abatement contractor applied an encapsulant to surfaces within the regulated work area. After waiting for the encapsulant to dry, aggressive air sampling was performed. Five (5) TEM air samples were started within the regulated work area and five (5) TEM air samples were started outside the work area. The sampling pumps were calibrated using a rotameter to 8.0 liters per minute. One field blank sample was opened within the work area for 30 seconds. One field blank sample was opened outside the work area for 30 seconds.

Between 7:00 pm and 7:05 pm, the sampling pumps were checked using a rotameter after the air within and outside the regulated work area was sampled using TEM cassettes for 150 minutes at 8.0 liters per minute. The sampling cassettes, including the two field blanks and one sealed blank, were labeled with unique identification and transported to EMSL Analytical Laboratory, Inc. (EMSL) located in Beltsville, Maryland for analysis.

The US EPA and Commonwealth of Virginia maximum allowable airborne asbestos concentration from within the work area is 70 structures per millimeter squared (s/mm2). In order to be deemed acceptable, the average of the interior samples analyzed must have asbestos concentrations less than or equal to 70 s/mm2. The laboratory report from EMSL indicated that that the analytical results of the TEM final clearance air samples collected from Room 104 work area found the airborne asbestos fiber concentrations to be less than this maximum allowable concentration. The client and abatement contractor supervisor were informed of the results. A copy of the laboratory report is attached.

GENERAL

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

The undersigned prepared and analyzed the PCM air sample cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the

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

FIELD REPORT

Project No. **47:1519-C7**
Report No. **6**
Project **ACPS (George Washington/Charles Barrett/Cora Kelly)** Day & Date **Tuesday 08/20/2019**

PCM Chain of Custody which is attached.

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet
WORK AREA SAMPLES

Project Number: 1519-C7

Project Address: 1005 Mount Vernon Avenue
Arlington, VA 22301

Date: 08/20/2019

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (min)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
08201901SS	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
08201902SS	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
08201903SS	OWA / 1st Floor, Room 104, At Decontamination Unit Entry	10:30 AM	2:30 PM	2.5	2.5	2.5	240	600.0	2.5	100	0.002
08201904SS	IWA / 1st Floor, Room 104 work area	10:30 AM	2:30 PM	2.5	2.5	2.5	240	600.0	10.0	100	0.008
08201905SS	OWA / 1st Floor, Room 104, At Negative Air Filtration Unit Exhaust	10:32 AM	2:32 PM	2.5	2.5	2.5	240	600.0	0.5	100	0.000

NFD = None Fibers Detected; OWA = Outside Work Area; IWA = Inside Work Area; FC = Final Clearance

Notes:

ECS Technician: Suhel Shafaat

Date: 08/20/2019

EMSL Analytical, Inc.

10768 Baltimore Avenue Beltsville, MD 20705

Tel/Fax: (301) 937-5700 / (301) 937-5701

http://www.EMSL.com / beltsvillelab@emsl.com

EMSL Order: 191910200
Customer ID: ECMA78
Customer PO:
Project ID:

Attention: Bobby Rhett
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Project: ACPS CHARLES BARRETT/1519-C7/AGGRESSIVE SAMPLING

Phone: (703) 471-8400
Fax: (703) 471-8400
Received Date: 08/21/2019 08:38 AM
Analysis Date: 08/21/2019
Collected Date: 08/20/2019

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
082019-01SS *191910200-0001*	IWA/FINAL CLEARANCE 1ST FL, RM 104	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
082019-02SS *191910200-0002*	IWA/FINAL CLEARANCE 1ST FL, RM 104	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
082019-03SS *191910200-0003*	IWA/FINAL CLEARANCE 1ST FL, RM 104	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
082019-04SS *191910200-0004*	IWA/FINAL CLEARANCE 1ST FL, RM 104	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
082019-05SS *191910200-0005*	IWA/FINAL CLEARANCE 1ST FL, RM 104	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049

Analyst(s)

Joe Centifonti (5)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation . Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

Initial report from: 08/21/2019 14:38 PM

OrderID: 191910200

Asbestos Chain of Custody

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number *(Lab Use Only)*: 191910200

PHONE:
FAX:

Company Name: ECS Mid-Atlantic, LLC		**EMSL Customer ID:**	
Street: 14026 Thunderbolt Place		**City:** Chantilly	**State/Province:** VA
Zip/Postal Code: 20151	**Country:** USA	**Telephone #:** 571-327-2721	**Fax #:**
Report To (Name): Bobby Rhett		**Please Provide Results:** ☐ Fax ☒ Email	
Email Address: BRhett@ecslimited.com		**Purchase Order:**	
Project Name/Number: ACPS Charles Barnett / 1519-C7		**EMSL Project ID** *(Internal Use Only)*:	
U.S. State Samples Taken: VA		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☒ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☒ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☐ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0 1%)
Point Count w/Gravimetric
☐ 400 (<0 25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NYS 198.8 SOF-V
☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
☒ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198 4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fibers Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM EPA 600/R-93/116 with milling prep (<1%)
☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
☐ TEM EPA 600/R-93/116 with milling prep (<0 1%)
☐ TEM Qualitative via Filtration Prep
☐ TEM Qualitative via Drop Mount Prep
☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
☐

☐ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☐ 0.8µm ☒ 0.45µm

Samplers Name: Ruhel Shafaat **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
082019 0155	IWA/Final clearance 1st Floor, Room 104	1200 L	8/20/19
0255			
0355			
0455			
0555			

Client Sample # (s): 082019 0155 - 082019 1355 **Total # of Samples:** 13

Relinquished (Client): **Date:** 8/20/19 **Time:**

Received (Lab): Kenworth Dropbox **Date:** **Time:**

Comments/Special Instructions: Analyze IWA samples only. Aggressive sampling.

RECEIVED
EMSL ANALYTICAL, INC.
BELTSVILLE, MD
AUG 21 A 8:38

Page 1 of 2 pages

Controlled Document – Asbestos COC – R10 – 05/09/2016

OrderID: 191910200

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

Phone:
Fax:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
082019 0655	DWA/Final clearance, 1st Floor, Room 104	1200 L	8/20/19
0755	↓	↓	↓
0855			
0955			
1055	↓	↓	
1155	Field Blank (opened 30secs before - by entrance)	N/A	
1255	Field Blank (opened 30secs before - in ambient)	↓	
1355	Sealed Blank (Not opened)	↓	↓

*Comments/Special Instructions:

Controlled Document - Asbestos COC - R10 - 05/09/2016

X EMERGENCY WAIVER REQUEST

Approved by: _____

Date: _____

X NESHAP PROJECT

VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY

Accounting/Finance Use Only
FINANCE ID: _____

DLI PERMIT NUMBER: _____
(If amended, indicate the original permit number)

PERMIT APPLICATION AND NOTIFICATION FOR ASBESTOS REMOVAL AND DEMOLITION

Section 1 - Type of Notification (Check the box that indicates the type of notice you are submitting)

X Original __ Amendment/Revision __ Cancellation __ Blanket __ Phased

Section 2 - Type of Operation (Check the box that indicates the type operation you will be performing)

__Asbestos Removal X Emergency Asbestos Removal __Asbestos Removal & Demolition __Demolition __Encapsulation

Section 3 - Facility Owner Information

Name: ALEXANDRIA CITY PUBLIC SCHOOLS

Address: 1340 BRADDOCK PLACE

City: ALEXANDRIA State: VA Zip: 22314

Contact: JOHN FINNIGAN Telephone #: 202-549-4499

Section 4 - Asbestos Removal Contractor Information (complete ALL of Section 4, if this is a Removal/Abatement Operation)

Name: WACO, INC. License #: 3306 000065

Federal Employer ID #: 54-0720555

Address: 38592 BRETT WAY, SUITE 7

City: MECHANICSVILLE State: MD Zip: 20659

Contact: STEVEN WILLIAMS Telephone #: 301-290-1333

Section 5 - Demolition Contractor Information (complete ALL of Section 5, if this is a Demolition Operation)

Name:

Address:

City: State: Zip:

Contact: Telephone #:

Section 6 - Facility Information

Building Name: CHARLES BARRETT ELEMENTARY SCHOOL

Address: 1115 MARTHA CUSTIS DRIVE

City: ALEXANDRIA State: VA Zip: 22302

Site Location: ROOM 104
Building Size: 62760 # of Floors: 2 Age in Years: 69

Present Use:
__Bridge __Military/Federal X School/College
__Commercial __Office __Ship/Maritime
__Church/Place of Worship __Public Building __Vacant
__Industrial/Manufacturing __Residential __Other: Click here.

Prior Use:
__Bridge __Military/Federal X School/College
__Commercial __Office __Ship/Maritime
__Church/Worship __Public Building __Vacant
__Industrial/Manufacturing __Residential __Other: Click here.

Section 7 - Work Schedules

Check if this section is being revised from a previous submittal ☐

Removal/Abatement (Submit notification 20 calendar days prior to start)

Start: 8/20/2019 Finish: 8/20/2019

Demolition (Submit notification 10 working days prior to start)

Start: Finish:

Days of Operation: __ Mon. - Fri. __ Sat.- Sun.
Other: __Mon X Tues __Wed __Thu __Fri __Sat __Sun
Hours of Operation: 6:00 AM - 2:30 PM

Comments:

-1-

Attachment No. 1

View of the Abatement Notification

ECS Mid-Atlantic, LLC

Pre-Abatement Work Area Checklist

Project Number: 1519-C7 **Date:** 08/20/2019

Project Address: 1005 Mount Vernon Avenue
Arlington, VA 22301

Work Area Location/Description: 1st Floor, Room 104/ Removal of Floor Tiles and Mastic

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	Satisfactory
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	N/A
	Equipment Room	Satisfactory
Personal Protective Equipment	Type of Respirator	Half-Face APR
	Type of Filters Used	P100
	Disposable Protective Clothing	Satisfactory
	Work Area Acceptable	Yes

Notes:

ECS Technician: Suhel Shafaat **Date:** 08/20/2019

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 1519-C7 **Date:** 08/20/2019

Project Address: 1005 Mount Vernon Avenue
Arlington, VA 22301

Work Area Location/Description: 1st Floor, Room 104/ Removal of Floor Tiles and Mastic

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	3
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Suhel Shafaat **Date:** 08/20/2019

ECS Mid-Atlantic, LLC

Final Clearance Checklist

Project Number: 1519-C7 **Date:** 08/20/2019

Project Address: 1005 Mount Vernon Avenue
Arlington, VA 22301

Work Area Location/Description: 1st Floor, Room 104/ Removal of Floor Tiles and Mastic

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	N/A
	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	TEM
	Number of Samples Collected	13
	Sample Volume (liters)	>1200
	Work Area Acceptable	Yes

Notes:

ECS Technician: Suhel Shafaat **Date:** 08/20/2019



Attachment No. 1
View of the regulated work area prepared for the removal of floor tiles and associated mastic



Attachment No. 2
View of the regulated work area following removal of floor tiles and associated mastic

ASBESTOS ABATEMENT PROJECT MONITORING SUMMARY REPORT



ACPS CHARLES BARRETT ELEMENTARY SCHOOL

1115 MARTHA CURTIS DRIVE
ALEXANDRIA, VIRGINIA 22302

ECS PROJECT NO. 47:11652-J1

FOR: ALEXANDRIA CITY PUBLIC SCHOOL

APRIL 19, 2022

April 19, 2022

Mr. Norman Wiebusch
Alexandria City Public School
1340 Braddock Place
Suite 620
Alexandria, Virginia 22301
norman.wiebusch@acps.k12.va.us

ECS Project No. 47:11652-J1

Reference: Asbestos Abatement Project Monitoring Summary Report, ACPS Charles Barrett Elementary School, 1115 Martha Curtis Drive, Alexandria, Virginia

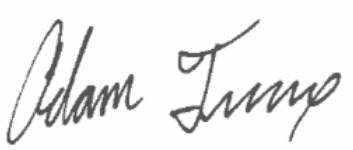
Dear Mr. Wiebusch:

ECS Subsidiary (ECS) is pleased to provide Alexandria City Public School with this summary report of the asbestos abatement work performed during the above-referenced project. ECS performed visual assessments, evaluations, and air monitoring and sampling during the removal of asbestos-containing materials (ACMs). This report includes a project description, a summary of the asbestos abatement activities observed by ECS, and a summary of the work conducted by ECS including laboratory results.

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

Sincerely,

ECS Subsidiary



Adam Truax
Project Manager
atruax@ecslimited.com
703-471-8400



Christopher J. Chapman, CIH
Director of Industrial Hygiene
cchapman@ecslimited.com
703-471-8400

TABLE OF CONTENTS

PAGE

1.0 PROJECT DESCRIPTION 1

2.0 ECS SCOPE OF WORK 1

3.0 ASBESTOS ABATEMENT ACTIVITIES 1

3.1 Asbestos Removal 1

3.2 Daily Air Sampling 1

3.3 ECS Observations 1

4.0 FINAL CLEARANCE AIR SAMPLING 2

5.0 CLOSING 2

6.0 LIMITATIONS 2

TABLE OF APPENDICES

Appendix I: Daily Field Reports with PCM Air Sample Results

Appendix II: Certifications/Licenses

1.0 PROJECT DESCRIPTION

The asbestos abatement work was performed by Waco, Inc., in general from April 11 through April 13 and consisted of removal of the following asbestos-containing materials (ACMs):

- Floor tiles and associated mastic from the Circular Classroom, Classroom 101, Hallway, and Janitors Closet within the Kindergarten Wing.

No other materials or areas of the school building were included in this asbestos abatement. Please note that the above-referenced asbestos-containing materials (ACMs), other identified ACMs, and/or assumed ACMs are most likely present in other areas of the school building.

2.0 ECS SCOPE OF WORK

ECS was tasked with performing visual assessments and evaluations, monitoring and air sampling during and after the removal of the above-identified asbestos-containing materials (ACMs) within the above-referenced subject building.

3.0 ASBESTOS ABATEMENT ACTIVITIES

3.1 Asbestos Removal

Asbestos abatement was performed by Waco, Inc. within one (1) regulated work area. The regulated work area within the subject building consisted of an enclosure placed under negative pressure constructed of 6-mil polyethylene sheeting.

3.2 Daily Air Sampling

During the asbestos abatement project, ECS collected and analyzed air samples using Phase Contrast Microscopy (PCM) in general accordance with applicable federal and state of Virginia regulations. Samples were collected during the project outside the work area to monitor airborne fiber concentrations. In general, the air sampling found the engineering controls (i.e., polyethylene sheeting, negative air pressure, and High Efficiency Particulate Air (HEPA) filtration) adequate to keep fiber concentrations on air samples collected outside the regulated work area below the State of Virginia PCM re-occupancy limit of <0.01 fibers per cubic centimeter (f/cc). Air sample results are included within the technicians' daily field notes.

3.3 ECS Observations

ECS reviewed the asbestos credentials of the abatement workers. The credential documentation reviewed was noted to be current at the time presented to ECS.

ECS observed abatement workers utilizing personal protective equipment deemed necessary for asbestos abatement work by applicable OSHA and state of Virginia regulations (respirators, disposable protective clothing, eye protection, hard hats, gloves, etc.).

ECS observed the abatement contractor seal the asbestos waste in 6-mil waste bags prior to removal from the work area for disposal. ECS observed that the waste was collected by the abatement contractor in sealed shipping containers for transport to an EPA accredited landfill authorized to accept asbestos waste. ECS recommends that the property owner obtain a copy of the waste transport and disposal manifests from the abatement contractor, if not already provided.

4.0 FINAL CLEARANCE AIR SAMPLING

After Waco, Inc. had removed the specified asbestos-containing materials (ACMs) and related waste from the work areas, ECS performed a final clearance visual assessment to survey the work area and evaluate if the ACMs had been removed and if dust and/or debris remained in the work area. Following the completion of the final clearance visual assessment, ECS reported the results to Waco, Inc. .

Final clearance air samples were collected from work areas in accordance with aggressive sampling protocol described in Unit III.B.7.d of 40 CFR 763 Subpart E Appendix A and analyzed via Transmission Electron Microscopy (TEM) in accordance with federal and state of Virginia regulations. The results of the TEM final clearance air samples collected from each work area were found to be below the state of Virginia re-occupancy limit of 70 structures per square millimeter (70 s/mm^2).

5.0 CLOSING

Copies of ECS's daily monitoring field reports are enclosed along with copies of laboratory reports. If we can be of further assistance to you, please do not hesitate to contact us at (703) 471-8400.

Based on our understanding of the scope of work for this project, the Contractor has acceptably completed the SOW as understood by ECS,

The results of the above referenced abatement activities should be included in the buildings operations and maintenance programs.

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.

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.

Appendix I: Daily Field Reports with PCM Air Sample Results

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

LETTER OF TRANSMITTAL

April 13, 2022
Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: Mr. Norman Wiebusch

RE: **Charles Barrett Elementary School**
ECS Job # **47:11652-J1**

Permits:
Location: **1115 Martha Custis Drive**
Alexandria, VA 22302

We are enclosing:							
	X	Field Reports	**X**	For your use	**X**	As requested	

CC:

ENCL: Field Report # 1 4/11/2022

Chris J. Chapman, CIH
Director of Industrial Hygiene Services

Adam Michael Truax, ASP
Environmental 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 No.	**47:11652-J1**
Report No.	**1**
Day & Date	**Monday 4/11/2022**
Weather	**55 °/ Sunny**
On-Site Time	**7.50**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**7.50**
Re Obs Time	**0.00**

Project	**Charles Barrett Elementary School**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**Waco, Inc**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Time of	Arrival	Departure
Chargeable Items				**6:00A**	**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 onsite, as requested, to observe and monitor asbestos abatement activities. The undersigned met with the abatement contractor supervisor, Santos Campos with Waco, Inc. (Waco) and discussed today's work activities. The abatement contractor planned to begin the abatement of asbestos containing material (ACM) in the form of 12" x 12" vinyl floor tile (VFT)(2 layers in the Circular Classroom Foyer Section), unknown size VFT on the ramp of the hallway, and their associated mastics from the kindergarten hallway, Classroom 101, and an associated janitors closet. The overall amount of ACM scheduled to be removed from the work area is roughly 2,635 square feet.

4-11-22- Kindergarten Hallway VFT and associated Mastic Abatement

The undersigned was requested to complete a pre-abatement checklist for kindergarten hallway containment. The pre-abatement checklist is attached to this report.

Between 6:40 to 6:45 AM, 2 PCM air samples were started outside of the containment, one at the waste loadout unit and one at the decontamination unit at the entrance of the kindergarten hallway. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute. The sampling locations are depicted in the map attached to this report.

The work area was surveyed to evaluate general compliance with applicable regulations for asbestos removal. The Daily Work Area Survey Checklists were completed and are attached to this report. The undersigned observed the workers using hand tools, a ride-on floor scraper, a mastic dissolving agent, and a standing orbital sander in order to remove the VFT's and remaining mastic from the sub-floor. The waste load-out area remained sealed throughout the entirety of the shift.

Around 11:00 AM, Waco workers were observed taking a break for lunch.

Between 1:00-1:05 PM, the sampling pumps from their respective sampling locations were checked using

a rotameter. The flow rate on both pumps were reported at 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

Around 2:00 PM, once the undersigned was off-site, Santos called and informed him that he and his workers would continue the mastic abatement until around 4:00 PM as opposed to the initial plan of ending the shift around 2:30 PM.

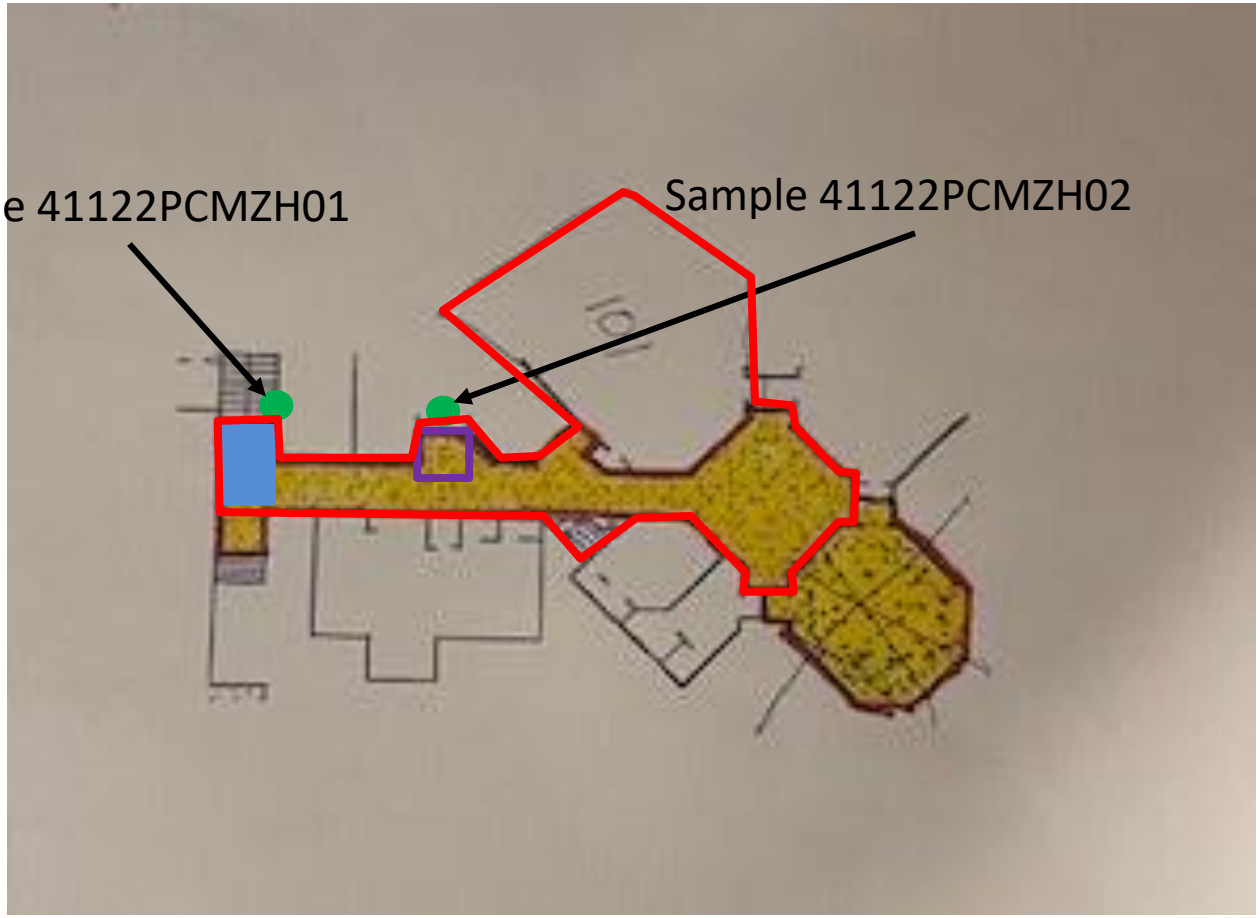
Around 4:00 PM, Santos called the undersigned to inform him that he and his workers were finishing work and leaving the site for the day.

General

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags which were double-bagged and sealed in general accordance with applicable regulations. Waste bags were labeled and placed in 6-mil polyethylene sheet lined waste barrels and stored within the work area to be removed at a later date.

The undersigned prepared and analyzed the PCM air sample cassettes 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 Virginia's re-occupancy limit is 0.01 fibers per cubic centimeter of air (f/cc). The analytical results of the PCM air samples collected from inside and outside the regulated work area on was reported to be less than the maximum allowable limits set by applicable regulations, which meets the project requirements.



Legend

- □ □egulated □ or□Area
- □ □econta□ination □nit
- PCM Air Sa□ □le Location
- □ aste deconta□ination unit

Charles Barrett Elementary School
1115 Martha Curtis Drive,
Alexandria, VA 22302

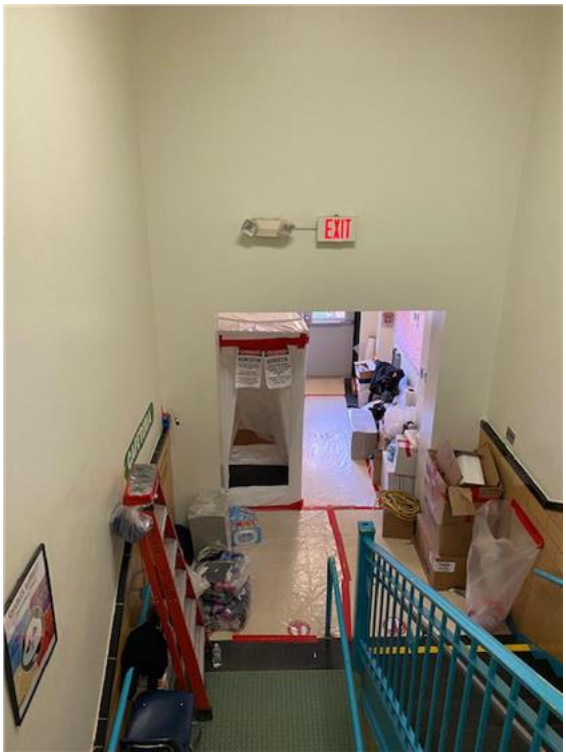
Kindergarten and Room 101 Abatement Sampling Map

SCALE N□S

Project No. 47:11652-J1

Date 4□11□22

Attachments



View of Decontamination Unit Signage

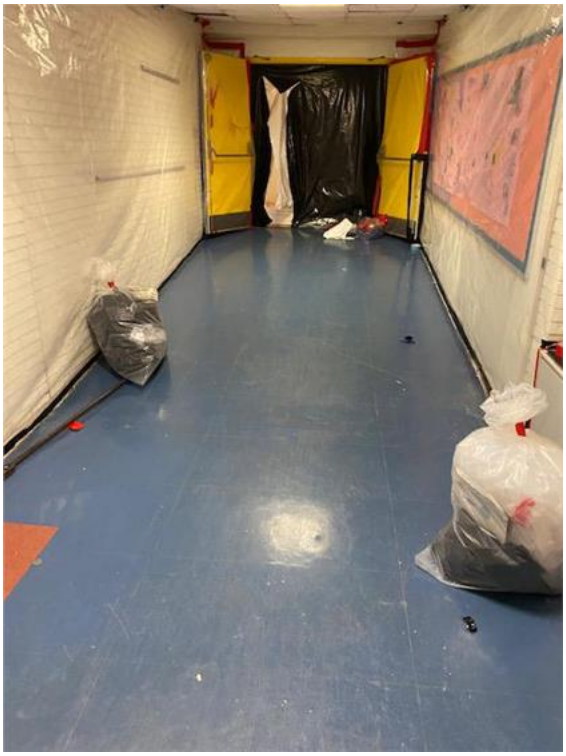
Figure 1



View of Circular Classroom Foyer from Inside Containment- Pre-abatement Survey

Figure 2

Attachments



View of Ramp by Decontamination Unit from Inside Containment- Pre-abatement Survey

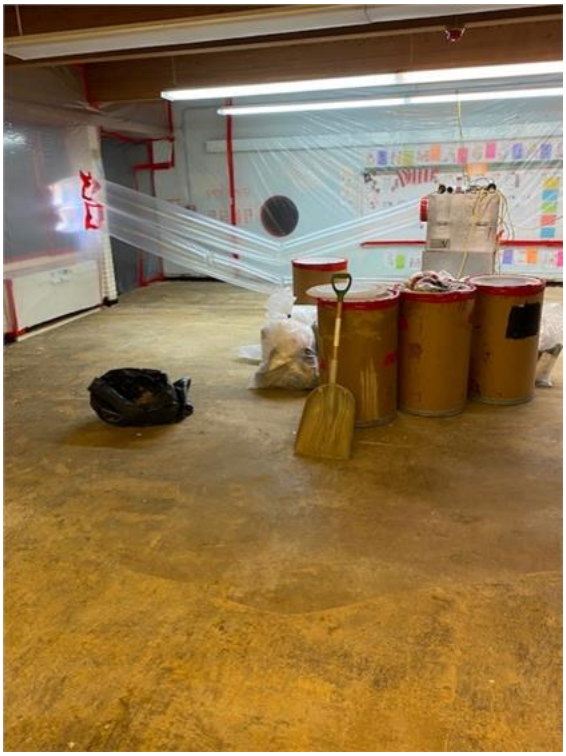
Figure 3



View of Ramp by Decontamination Unit- End of Shift

Figure 4

Attachments



View of Room 101- End of Shift

Figure 5

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-J1 **Date:** 4/11/2022

Project Address: 1115 Martha Custis Drive
Alexandria, VA-22302

Work Area Location/Description: Kindergarten Hallway/Removal of Floor Tile and Mastic

	Work Area Location/Description	Kindergarten Hallway/Removal of
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	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	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Adam Michael Truax **Date:** 4/11/2022

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-J1
Project Address: 1115 Martha Custis Drive
Alexandria, VA-22302

Date: 4/11/2022
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)
41122PCMZH01	OWA, At the decontamination unit, Kindergarten Hallway Abatement	6:40 AM	1:00 PM	2.0	2.0	2.0	380	760.0	2.0	100	0.001
41122PCMZH02	OWA, At waste load out unit, Kindergarten Hallway Abatement	6:45 AM	1:05 PM	2.0	2.0	2.0	380	760.0	0.5	100	0.000
41122PCMZHFB1	Field Blank, OWA, Kindergarten Hallway Abatement	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0	NFD
41122PCMZHFB2	Field Blank, IWA, Kindergarten Hallway Abatement	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0	NFD

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

Notes: Results relate to time and location the results were collected

ECS Technician: Zach Harrell **Date:** 4/11/2022

ECS Mid-Atlantic, LLC

Pre-Abatement Work Area Checklist

Project Number: 47:11652-J1 **Date:** 4/11/2022

Project Address: 1115 Martha Custis Drive
Alexandria, VA-22302

Work Area Location/Description: Kindergarten Hallway/Removal of Floor Tile and Mastic

	Work Area Location/Description	Kindergarten Hallway/Removal of
Administrative	Training Certificates/Licenses	Satisfactory
	Permits	Satisfactory
	EPA/State/Local Notification	Satisfactory
Work Area	Public Access Restricted	Satisfactory
	Warning Signs/Tape Posted	Satisfactory
Negative Air Filtration	Number of Units	6
	Pre-Filters In-Use/Available	Satisfactory
	Exhausted from Work Area	Satisfactory
	Pressure Differential Monometer Operating	Satisfactory
Equipment	HEPA Vacuum Available	Satisfactory
	Amended Water Sprayers	Satisfactory
Decontamination Enclosure	Clean Room	Satisfactory
	Shower Water Available	Satisfactory
	Waste Water Filtration In-Use	Satisfactory
	Disposable Towels	Satisfactory
	Soap	Satisfactory
	Equipment Room	Satisfactory
Personal Protective Equipment	Type of Respirator	Half Face APR
	Type of Filters Used	P100
	Disposable Protective Clothing	Satisfactory
	Work Area Acceptable	Yes

Notes:

ECS Technician: Adam Michael Truax **Date:** 4/11/2022

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

LETTER OF TRANSMITTAL

April 14, 2022
Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: Mr. Norman Wiebusch

RE: **Charles Barrett Elementary School**
ECS Job # **47:11652-J1**

Permits:
Location: **1115 Martha Custis Drive**
Alexandria, VA 22302

We are enclosing:							
	X	Field Reports	**X**	For your use	**X**	As requested	

CC:

ENCL: Field Report # 2 4/12/2022

Chris J. Chapman, CIH
Director of Industrial Hygiene Services

Adam Michael Truax, ASP
Environmental 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	**Charles Barrett Elementary School**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**Waco, Inc**

Project No.	**47:11652-J1**
Report No.	**2**
Day & Date	**Tuesday 4/12/2022**
Weather	**70 °/ Sunny**
On-Site Time	**10.00**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**10.00**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Time of	Arrival	Departure
Chargeable Items				**6:00A**	**4:00P**

* 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 onsite, as requested, to observe and monitor asbestos abatement activities. The undersigned met with the abatement contractor supervisor, Santos Campos with Waco, Inc. (Waco) and discussed today's work activities. The abatement contractor planned to continue the abatement of asbestos containing material (ACM) in the form of 12" x 12" vinyl floor tile (VFT)(2 layers in the Circular Classroom Foyer Section), unknown size VFT on the ramp of the hallway, and their associated mastics from the kindergarten hallway, classroom 101, and an associated janitors closet. The overall amount of ACM scheduled to be removed from the work area is roughly 2,635 square feet.

4-12-22- Kindergarten Hallway VFT and associated Mastic Abatement

Between 6:10 to 6:15 AM, 2 PCM air samples were started outside of the containment, one at the waste load-out unit and one at the decontamination unit at the entrance of the kindergarten hallway. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute. The sampling locations are depicted in the map attached to this report.

The work area was surveyed to evaluate general compliance with applicable regulations for asbestos removal. The Daily Work Area Survey Checklists were completed and are attached to this report. The undersigned observed the workers using hand tools, a ride-on floor scraper, a mastic dissolving agent, and a standing orbital sander in order to remove the VFT's and remaining mastic from the sub-floor.

Around 8:00 AM, Waco workers were observed cleaning the sealed and labeled waste barrels in the waste load-out unit, loading them out of the waste load out unit on to a Waco closed bed box truck in order to be hauled off site. The waste load-out unit was sealed following the completion of waste loadout activities for the day. The undersigned was informed that the waste barrels would be deposited into a designated asbestos waste hauling container located at their office (38592 Brett Way #7, Mechanicsville, MD, 20659). A copy of the waste manifest is attached to this report.

By Zach Harrell 1825

Around 11:00 AM, Waco workers were observed taking a break for lunch.

Between 3:00-3:05 PM, the sampling pumps from their respective sampling locations were checked using a rotameter. The flow rate on both pumps were reported at 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area for analysis.

General

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags which were double-bagged and sealed in general accordance with applicable regulations. Waste bags were labeled and placed in 6-mil polyethylene sheet lined waste barrels and stored within the work area to be removed at a later date.

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

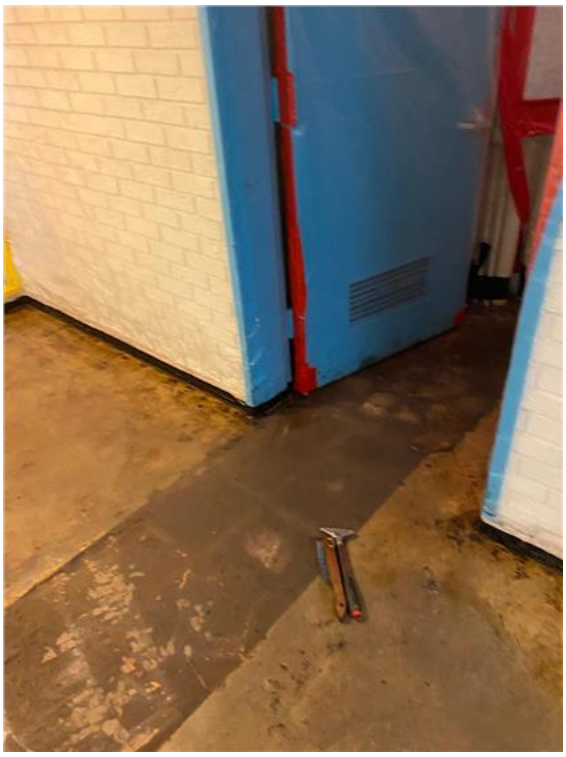
The US EPA and Virginia's re-occupancy limit is 0.01 fibers per cubic centimeter of air (f/cc). The analytical results of the PCM air samples collected from inside and outside the regulated work area was reported to be less than the maximum allowable limits set by applicable regulations, which meets the project requirements.

Attachments



View of Circular Classroom Foyer- Start of Shift

Figure 1



View of Janitors Closet- Lunch Break

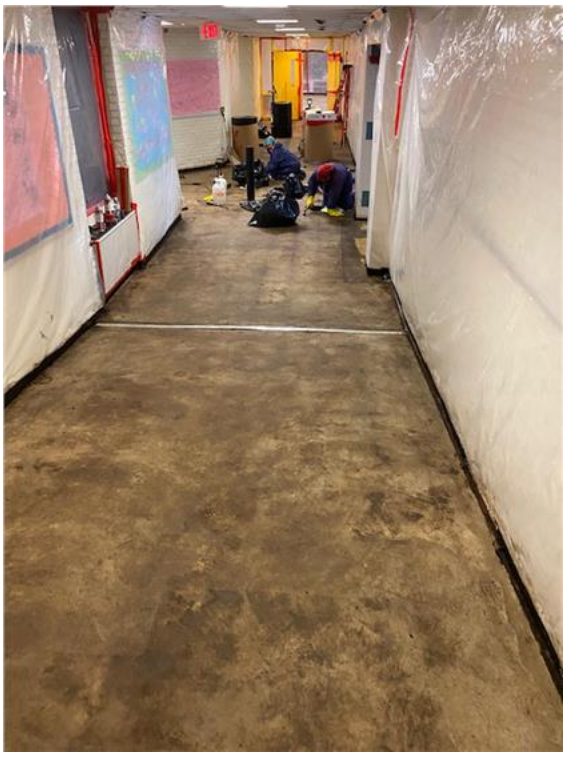
Figure 2

Attachments



View of Circular Classroom Foyer- End of Shift

Figure 3



View from Decontamination Unit- End of Shift- Hallway Abatement Activites

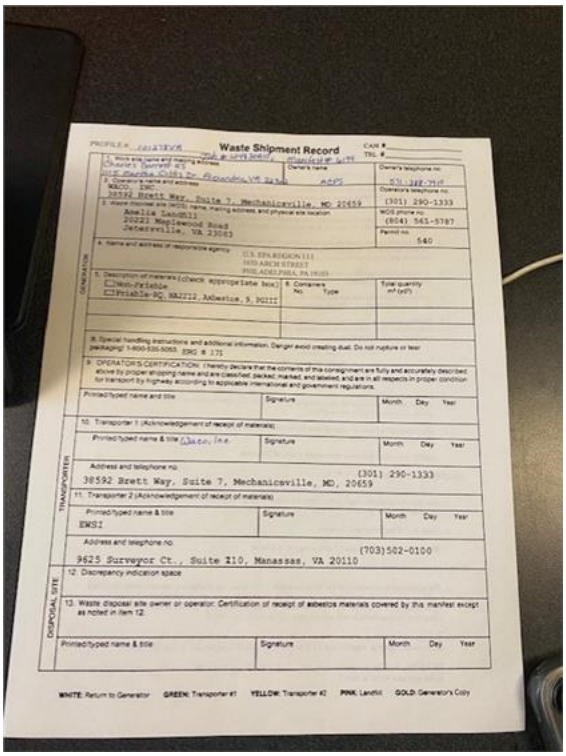
Figure 4

Attachments



View of Waste Load-out Activities

Figure 5



View of Waste Manifest

Figure 6

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-J1 **Date:** 4/12/2022

Project Address: 1115 Martha Custis Drive
Alexandria, VA-22302

Work Area Location/Description: Kindergarten Hallway/Removal of Floor Tile and Mastic

	Work Area Location/Description	Kindergarten Hallway/Removal of
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	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	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Adam Michael Truax **Date:** 4/12/2022

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-J1
Project Address: 1115 Martha Custis Drive
Alexandria, VA-22302

Date: 4/12/2022
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)
41222PCMZH01	OWA, Decontamination Unit, Kindergarten Hallway Containment	6:10 AM	3:00 PM	2.0	2.0	2.0	530	1060.0	4.0	100	0.002
41222PCMZH02	OWA, Waste Load-out Unit, Kindergarten Hallway Containment	6:15 AM	3:05 PM	2.0	2.0	2.0	530	1060.0	5.0	100	0.002
41222PCMZHFB1	Field Blank, OWA, Kindergarten Hallway Containment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0	NFD
41222PCMZHFB2	Field Blank , IWA, Kindergarten Hallway Containment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0	NFD

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

Notes: Results relate to time and location the results were collected.

ECS Technician: Zach Harrell **Date:** 4/12/2022

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

LETTER OF TRANSMITTAL

April 14, 2022
Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: Mr. Norman Wiebusch

RE: **Charles Barrett Elementary School**
ECS Job # **47:11652-J1**

Permits:
Location: **1115 Martha Custis Drive**
Alexandria, VA 22302

We are enclosing:							
	X	Field Reports	**X**	For your use	**X**	As requested	

CC:

ENCL: Field Report # 3 4/13/2022

Chris J. Chapman, CIH
Director of Industrial Hygiene Services

Adam Michael Truax, ASP
Environmental 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	**Charles Barrett Elementary School**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**Waco, Inc**

Project No.	**47:11652-J1**
Report No.	**3**
Day & Date	**Wednesday 4/13/2022**
Weather	**80 °/ Cloudy**
On-Site Time	**8.75**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**8.75**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Times of	Arrival	Departure
Chargeable Items				**5:45A**	**6:45A**
				8:15A	**9:45A**
				10:30A	**1:45P**
				2:45P	**5:45P**

* 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 onsite, as requested, to observe and monitor asbestos abatement activities. The undersigned met with the abatement contractor supervisor, Santos Campos with Waco, Inc. (Waco) and discussed today's work activities. The abatement contractor planned to finish the abatement of asbestos containing material (ACM) in the form of 12" x 12" vinyl floor tile (VFT)(2 layers in the Circular Classroom Foyer Section), unknown size VFT on the ramp of the hallway, and their associated mastics from the kindergarten hallway, classroom 101, and an associated janitors closet. The overall amount of ACM scheduled to be removed from the work area is roughly 2,635 square feet.

4-13-22- Kindergarten Hallway VFT and associated Mastic Abatement and Final Clearance

Between 6:00 to 6:05 AM, 2 PCM air samples were started outside of the containment, one at the waste load-out unit and one at the decontamination unit at the entrance of the kindergarten hallway. The sampling pump at the waste load-out unit was calibrated using a rotameter to 2.0 liters per minute. The sampling pump at the decontamination unit was calibrated using a rotameter to 2.0 liters per minute. The sampling locations are depicted in the map attached to this report.

At 6:45 AM, the undersigned left site to monitor Waco's abatement activities at George Washington Middle School located at 1005 Mount Vernon Avenue in Alexandria, Virginia.

At 8:15 AM, the undersigned returned to site to monitor abatement activities.

The work area was surveyed to evaluate general compliance with applicable regulations for asbestos removal. The Daily Work Area Survey Checklists were completed and are attached to this report. The undersigned observed the workers using hand tools, a mastic dissolving agent, and a standing orbital

sander in order to remove the VFT's and remaining mastic from the concrete sub-floor. The waste load-out area remained sealed throughout the entirety of the shift.

At 9:45 AM, the undersigned left site to retrieve extra air monitoring equipment (sampling pumps) from another ECS Field Technician (Sheryll Metzger) located at 1031 N Vermont Street in Arlington, Virginia.

At 10:30 AM, the undersigned returned to site to monitor abatement activities.

Waco workers were observed finishing the residual mastic abatement and cleaning the surfaces within the containment.

At 11:45 PM, the abatement contractor stated the specified materials had been removed from the regulated work area and requested a visual survey to confirm compliance. The Final Clearance Visual Survey Checklist was completed and is attached to this report.

Between 1:00-1:05 PM, the sampling pumps from their respective sampling locations were checked using a rotameter. The flow rate on both pumps were reported at 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area for analysis.

Following the successful completion of the final clearance visual survey, the abatement contractor applied an encapsulant to surfaces within the regulated work area. After waiting approximately 90 minutes for the encapsulant to dry, aggressive air sampling was performed. At 1:30 PM, Five (5) TEM air samples were started within the regulated work area and Five (5) TEM air samples were started outside the work area. The sampling pumps were calibrated using a rotameter to 8.5 liters per minute. One field blank sample was opened within the work area for 30 seconds. One field blank sample was opened outside the work area for 30 seconds.

At 1:45 PM, the undersigned left site to monitor Waco's abatement activities at George Washington Middle School located at 1005 Mount Vernon Avenue in Alexandria, Virginia.

At 2:45 PM, the undersigned returned to site to complete final clearance air sampling.

At 3:52 PM, the sampling pumps were checked using a rotameter after the air within and outside the regulated work area was sampled using TEM cassettes for 142 minutes at 8.5 liters per minute. The sampling cassettes, including the two field blanks and one sealed blank were labeled with unique identification to be transported to AMA Analytical Services Inc, located at 4475 Forbes Blvd, Lanham, Maryland, 20706, for analysis.

At 4:00 PM, the undersigned left site to finish monitoring Waco's abatement activities at George Washington Middle School located at 1005 Mount Vernon Avenue in Alexandria, Virginia for the day.

At 4:30 PM, the undersigned left George Washington Middle School to transport the TEM Final Clearance Air Sampling cassettes to AMA Analytical Services Inc for analysis.

General

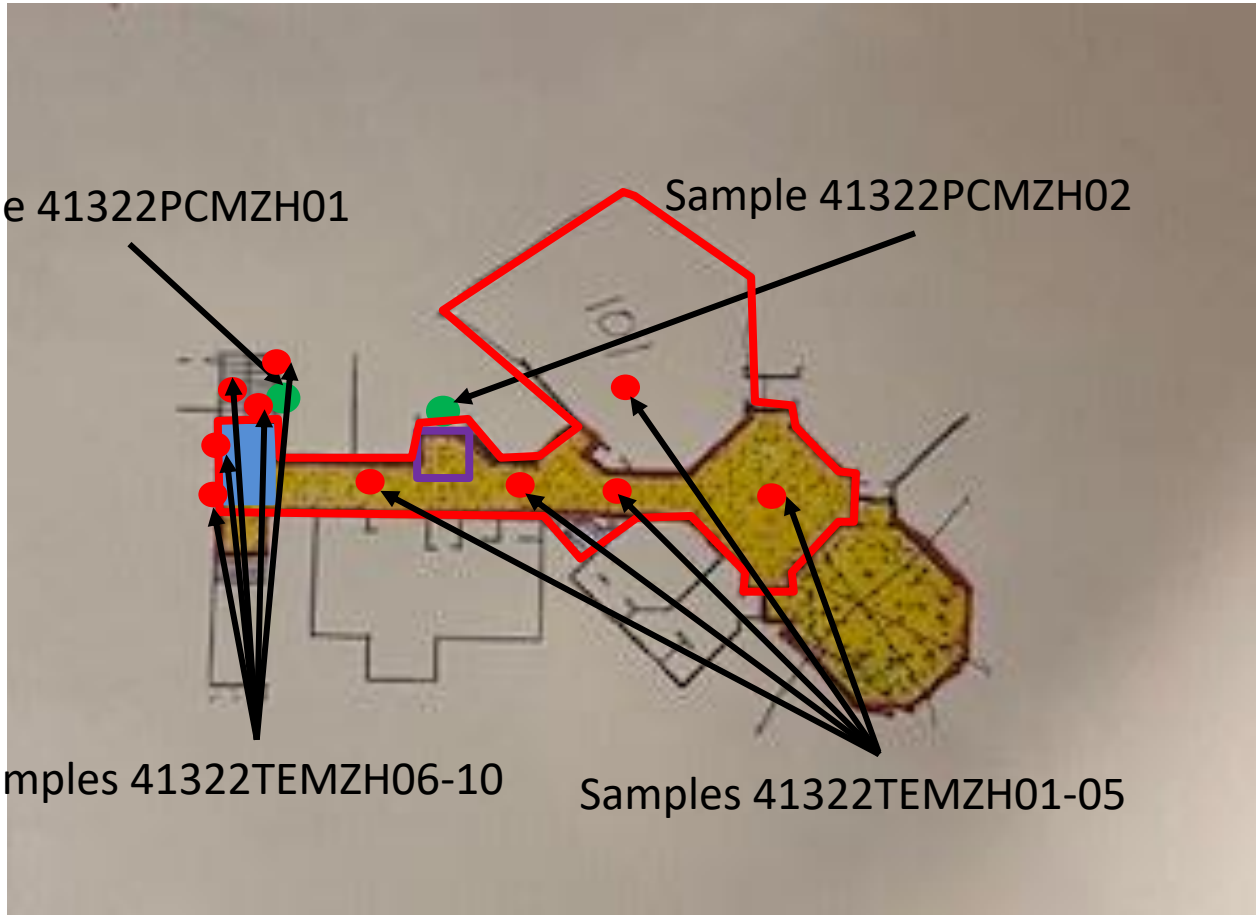
ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags which were double-bagged and sealed in general accordance with applicable regulations. Roughly 3 waste barrels and 8 asbestos waste bags are sealed, cleaned, consolidated, and

covered in 6-mil polyethylene plastic sheeting within the work area and are scheduled to be removed following ECS' grant of final clearance.

The undersigned prepared and analyzed the PCM air sample cassettes 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 Virginia's re-occupancy limit is 0.01 fibers per cubic centimeter of air (f/cc). The analytical results of the PCM air samples collected from outside the regulated work area was reported to be less than the maximum allowable limits set by applicable regulations, which meets the project requirements.

The The US EPA and Virginia's maximum allowable airborne asbestos concentration from within the work area is 70 structures per millimeter squared (s/mm2). In order to be deemed acceptable, the average of the interior samples analyzed must have asbestos concentrations of 70 s/mm2 or less. AMA Analytical Services Inc informed ECS that the analytical results of the TEM final clearance air samples collected from the Kindergarten Hallway VFT Abatement Containment found the airborne asbestos fiber concentrations to be less than the maximum allowable concentration. The client and abatement contractor supervisor, Santos, were informed of the results. A copy of the laboratory report is attached.



Note: Samples not Pictured : 41322PCMZHFB1, 41322PCMZHFB2, 41322TEMZHFB1, 41322TEMZHFB2, and 41322TEMZHSB

Legend

- □ □egulated □ or□Area
- □ □econta□ination □nit
- PCM Air Sa□ □le Location
- □ aste Load-out unit
- □EM □inal Clearance Air Sa□ □le Location

Charles Barrett Elementary School
1115 Martha Curtis Drive,
Alexandria, VA 22302

Kindergarten and Room 101 Abatement Sampling Map

SCALE N□S

Project No. 47:11652-J1

Date 4□13□22

AMA Analytical Services, Inc.
Focused On Results.

CERTIFICATE OF ANALYSIS

NVLAP TESTING
Lab Code 101143-0
NY ELAP
Lab ID 10920

Chain of Custody: 635205
Client: ECS Mid-Atlantic, LLC
Address: 6710 Oxon Hill Road
Suite 101
National Harbor, MD 20745
Attention: Adam

Job Name: Charles Barrett/47:11652-J1
Kindergarten Abatement
Job Location: 1115 Martha Curtis Drive, Alexandria, VA
Job Number: 47:11652-J1
P.O. Number: Not Provided

Date Submitted: 04/13/2022
Date Analyzed: 04/13/2022
Report Date: 04/13/2022
Date Sampled: 04/13/2022
Person Submitting: Zach Harrell

Summary of Transmission Electron Microscopy

Filter Type: MCE **Pore Size:** 0.45 um **Filter Size:** 25 mm (385 mm²)

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm²)	Analytical Sensitivity s/cc	Asbestos			# Non Asbestos Structures	Concentration		Sample Type	Comments
					Amount/Type	<5µm	>=5µm		s/mm²	s/cc		
635205-1	41322TEMZH01	1203.6	0.07	0.0046	1 Chry	1	0	0	14	0.0046	IWA	
635205-2	41322TEMZH02	1203.6	0.07	0.0046	0			0	<14	<0.0046	IWA	
635205-3	41322TEMZH03	1203.6	0.07	0.0046	1 Chry	1	0	0	14	0.0046	IWA	
635205-4	41322TEMZH04	1203.6	0.07	0.0046	0			0	<14	<0.0046	IWA	
635205-5	41322TEMZH05	1203.6	0.07	0.0046	1 Chry	1	0	0	14	0.0046	IWA	
635205-6	41322TEMZH06	1203.6	0.0	--	--			--	--	--	OWA	Not Analyzed
635205-7	41322TEMZH07	1203.6	0.0	--	--			--	--	--	OWA	Not Analyzed
635205-8	41322TEMZH08	1203.6	0.0	--	--			--	--	--	OWA	Not Analyzed
635205-9	41322TEMZH09	1203.6	0.0	--	--			--	--	--	OWA	Not Analyzed
635205-10	41322TEMZH10	1203.6	0.0	--	--			--	--	--	OWA	Not Analyzed
635205-11	41322TEMZH11	0.0	0.0	--	--			--	--	--	BLK	Not Analyzed
635205-12	41322TEMZH12	0.0	0.0	--	--			--	--	--	BLK	Not Analyzed
635205-13	41322TEMZH13	0.0	0.0	--	--			--	--	--	BLK	Not Analyzed

4475 Forbes Blvd. · Lanham, MD, 20706 · (301) 459-2640 · Toll Free (800) 346-0961 · Fax (301) 459-2643

AMA Analytical Services, Inc.
Focused On Results.

CERTIFICATE OF ANALYSIS

Chain of Custody: 635205

Client: ECS Mid-Atlantic, LLC

Address: 6710 Oxon Hill Road
Suite 101
National Harbor, MD 20745

Attention: Adam

Job Name: Charles Barrett/47:11652-J1
Kindergarten Abatement

Job Location: 1115 Martha Curtis Drive, Alexandria, VA

Job Number: 47:11652-J1

P.O. Number: Not Provided

Date Submitted: 04/13/2022

Date Analyzed: 04/13/2022

Report Date: 04/13/2022

Date Sampled: 04/13/2022

Person Submitting: Zach Harrell

Summary of Transmission Electron Microscopy

Filter Type: MCE **Pore Size:** 0.45 um **Filter Size:** 25 mm (385 mm²)

AMA Sample Number	Client Sample Number	Volume (L)	Area Analyzed (mm)	Analytical Sensitivity s/cc	Asbestos Amount/Type	Asbestos <5µm	Asbestos >=5µm	# Non Asbestos Structures	Concentration s/mm	Concentration s/cc	Sample Type	Comments

Analytical procedures used meet or exceed the AHERA "Interim Transmission Electron Microscopy Analytical Methods" protocol described in Appendix A to Subpart E of 40 CFR Part 763.

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Uncertainty and 95% confidence limits (n_u and n_L) for the air concentration are based on a Poisson distribution of fibers counted on the filter. It is dependent on the mean number of fibers counted ($\overline{n}$), standard deviation (s), the number of grid openings (k) and the confidence interval (t).

$$Upper\ Limit\ n_u = \overline{n} + ts/\sqrt{k}$$

$$Lower\ Limit\ n_L = \overline{n} - ts/\sqrt{k}$$

Calculated confidence limit concentrations as well as the Poisson table are available upon request.

Analyst(s): George Land

Technical Director Andreas Saldivar

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP, NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

AMA Analytical Services, Inc.
Focused on Results www.amalab.com
AIHA-LAP (#100470) NVLAP (#101143-0) NY ELAP (10920)
4475 Forbes Blvd. • Lanham, MD 20706
(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This Number For Inquires) 635205

AMA Client Information:
1. Client Name: ECS Mid Atlantic
2. Address 1: 14026 Thunderbolt Place, Chantilly, VA,
3. Address 2:
4. Billing Email: ATruax@ecslimited.com
5. Phone #: 571-373-2219

Submittal Information:
1. Job Name: Charles Barrett/417:11652-J1 Kindergarten Abatement
2. Job Location: 115 Martha Custis Dr, Alexandria, VA
3. Job #: 417:11652-J1 PO#:
4. Contact Person: Adam Truax Cell: 571-373-2219
5. Collected by: Zach Hurrell Cell: 571-334-3350

If a TAT is not provided, AMA will assign a default of 5-Day. **Reports and Invoices provided by Email only.**

AFTER HOURS (must be pre-scheduled)
❑ 4 Hours ❑ Late Night
~~❑ Immediate~~ Date Due: 4/14
❑ 24 Hours Time Due: 6:00AM
Comments:

NORMAL BUSINESS HOURS
❑ 4 Hours ❑ 3 Day
❑ Same Day (6-8 Hours) ❑ 5 Day +
❑ 1 Day Date Due:
❑ 2 Day
❑ Results Required By Noon

REPORT TO:
Email 1: ATruax@ecslimited.com
☑ Email 2: zhurrell@ecslimited.com
❑ Email 3:

Asbestos Analysis
*PCM Air – Please Indicate Filter Type:
❑ NIOSH 7400 (QTY)
*TEM Air – Please Indicate Filter Type: .45µ +5.0µ TEM
☑ AHERA 1 (QTY)
❑ NIOSH 7402 (QTY)
❑ Other (specify) (QTY)
PLM Bulk
❑ EPA 600 – Visual Estimate (QTY) ❑ Pos Stop
❑ EPA Point Count (QTY)
❑ NY State Friable 198.1 (QTY)
❑ Grav. Reduction ELAP 198.6 (QTY)
❑ Other (specify) (QTY)
MISC
❑ Asbestos Soil PLM ___(Qual) PLM ___(Quan) PLM/TEM ___(Qual) PLM/TEM ___(Quan)

TEM Bulk
❑ ELAP 198.4/Chatfield (QTY)
❑ NY State PLM/TEM (QTY)
❑ Residual Ash (QTY)
❑ Vermiculite (QTY)
TEM Dust*
❑ Qual. (pres/abs) Vacuum/Dust (QTY)
❑ Quan. (s/area) Vacuum D5755-95 (QTY)
❑ Quan. (s/area)Dust D6480-99 (QTY)
TEM Water
❑ Qual. (pres/abs) (QTY)
❑ ELAP 198.2/EPA 100.2 (QTY)
❑ EPA 100.1 (QTY)

☑ All samples received in good condition unless otherwise noted.
(TEM Water samples °C) **(For Lab Use Only)**

If field data sheets are submitted, there is no need to complete bottom section.
*It is recommended that blank samples be submitted with all air and surface samples

Metals Analysis
❑ Pb Paint Chip ❑ % by Weight (QTY) ❑ mg/kg (QTY)
❑ *Pb Dust Wipe (QTY) (Samples collected using ASTM approved media ❑
❑ *Pb Air (QTY)
❑ Pb Soil/Solid (QTY)
❑ Pb TCLP (QTY)
❑ Drinking Water ❑ Pb (QTY) ❑ Cu (QTY)
❑ Waste Water ❑ Pb (QTY) ❑ Cu (QTY)
❑ Pb Furnace (Media) (QTY)

Fungal Analysis
❑ *Spore-Trap (QTY)
❑ *Surface Swab (QTY)
❑ *Surface Tape (QTY)
❑ Other (Specify) (QTY)
❑ Surface Vacuum Dust (QTY)
Collection Apparatus for Spore Traps/Air Samples:
Collection Media

SAMPLE INFORMATION

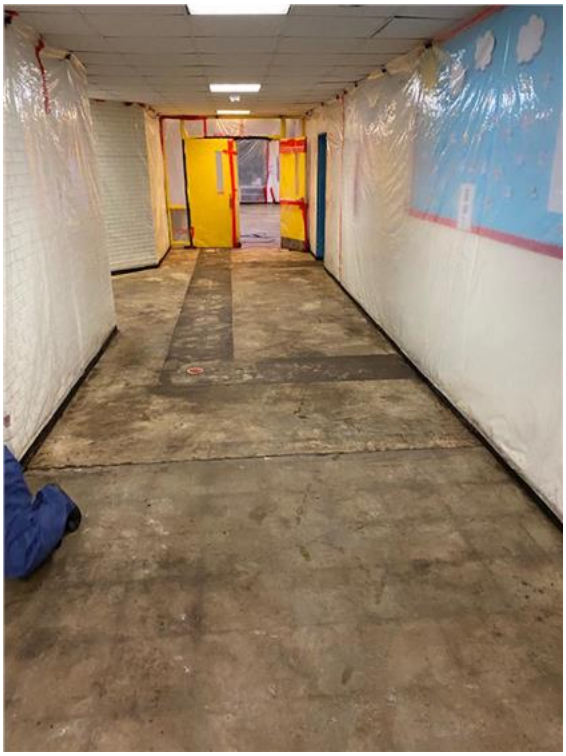
SAMPLE #	MATERIAL and/or LOCATION DESCRIPTION	DATE	TIME	VOL (L) (Air Samples)	Wipe Area (Dust Samples)	TEM	PCM	PLM	LEAD	MOLD	COMMENTS/SPECIAL INSTRUCTIONS
41322TEM7H01	IWA Kindergarten Hallway Abatement	4/13	5:00	203.6L		✓					
41322TEM7H02	"	"	"	"							
41322TEM7H03	"	"	"	"							
41322TEM7H04	"	"	"	"							
41322TEM7H05	"	"	"	"							
41322TEM7H06	OWA	"	"	"							
41322TEM7H07	"	"	"	"							
41322TEM7H08	"	"	"	"							
41322TEM7H09	"	"	"	"							
41322TEM7H10	"	"	"	"							
41322TEM7HFB1	Field Blank	—	—	—							
41322TEM7HFB2	"	—	—	—							
41322TEM7HSB	Seaweed Blank	—	—	—							

	Print Name	Signature	Date	Time
*Relinquished by:	Zach Hurrell		4-13-22	5:00
Received by:			4/13/22	1713

Delivery Information (For Lab Use Only)
❑ UPS ☑ In-Person ❑ Other
❑ FedEx ❑ Drop Box
❑ USPS ❑ Courrier

*by submitting samples to AMA, you agree to abide by all of AMA's terms & conditions. Please contact the laboratory for additional specific details regarding terms & conditions.

Attachments



View of Kindergarten Hallway- Final Visual Survey

Figure 1



View of Janitors Closet- Final Visual Survey

Figure 2

Attachments



View of Classroom 101- Final Visual Survey

Figure 3



View of Circular Classroom Foyer- Final Visual Survey

Figure 4

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-J1
Project Address: 1115 Martha Custis Drive
Alexandria, VA-22302

Date: 4/13/2022
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)
41322PCMZH01	OWA, At Decontamination Unit, Kindergarten Hallway VFT Abatement Containment	6:00 AM	1:00 PM	2.0	2.0	2.0	420	840.0	2.0	100	0.001
41322PCMZH02	OWA, At Waste Load-out Unit, Kindergarten Hallway VFT Abatement Containment	6:05 AM	1:05 PM	2.0	2.0	2.0	420	840.0	0.5	100	0.000
41322PCMZHFB1	Field Blank, OWA, Kindergarten Hallway VFT Abatement Containment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0	NFD
41322PCMZHFB2	Field Blank, IWA, Kindergarten Hallway VFT Abatement Containment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0	NFD

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

Notes: Results relate to time and location the results were collected

ECS Technician: Zach Harrell **Date:** 4/13/2022

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-J1 **Date:** 4/13/2022

Project Address: 1115 Martha Custis Drive
Alexandria, VA-22302

Work Area Location/Description: Kindergarten Hallway/Removal of Floor Tile and Mastic

	Work Area Location/Description	Kindergarten Hallway/Removal of
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	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	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Adam Michael Truax **Date:** 4/13/2022

ECS Mid-Atlantic, LLC

Final Clearance Checklist

Project Number: 47:11652-J1 **Date:** 4/13/2022

Project Address: 1115 Martha Custis Drive
Alexandria, VA-22302

Work Area Location/Description: Kindergarten Hallway/Removal of Floor Tile and Mastic

	Work Area Location/Description	Kindergarten Hallway/Removal of
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	Floors	Satisfactory
	Walls	Satisfactory
	Ceiling	Satisfactory
	Windows	Satisfactory
	Mechanical Equipment	Satisfactory
	Ducts	Satisfactory
	Pipes	Satisfactory
	Lighting	Satisfactory
	Other Surfaces	Satisfactory
	Specified ACM Removed	Satisfactory
	Work Area Encapsulated	Satisfactory
	Negative Air Filtration Functioning	Satisfactory
	Waste Bags Removed	N/A
	Final Clearance Air Sample Type	TEM
	Number of Samples Collected	13
	Sample Volume (liters)	1215
	Work Area Acceptable	Yes

Notes: Roughly 3 waste barrels are sealed, cleaned, consolidated, and covered in 6-mil polyethylene plastic sheeting within the work area and are scheduled to be removed following ECS's grant of final clearance.

ECS Technician: Adam Michael Truax **Date:** 4/13/2022

Appendix II: Certifications/ Licenses

DPOR License Lookup License Number 3309002099

License Details

Name	HARRELL, ZACHARY DAVID
License Number	3309002099
License Description	Asbestos Project Monitor License
Rank	Asbestos Project Monitor
Address	ARLINGTON, VA 22207
Initial Certification Date	2021-12-17
Expiration Date	2022-12-31

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 1,452 (built 2021-09-14 01:36:33).