AHERA - THREE YEAR REINSPECTION



JEFFERSON HOUSTON PK-8

1501 CAMERON STREET
ALEXANDRIA, VIRGINIA 22314

ECS PROJECT NO. 47:11652-E4-12

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

SEPTEMBER 2, 2025

September 2, 2025

Mr. Lee Conroy
Alexandria City Public Schools
1712 North Beauregard Street
Alexandria, Virginia 22311

ECS Project No. 47:11652-E4-12

Reference: AHERA - Three Year Reinspection, Jefferson Houston PK-8, 1501 Cameron Street, 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 Jefferson Houston PK-8 located at 1501 Cameron Street in Alexandria, Virginia.

Previous asbestos surveys of the school did not identify asbestos. ECS performed a cursory walk through of the school to observe present conditions.

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

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

Sincerely,

ECS Mid-Atlantic, LLC

Adam Truax
Environmental Senior Project Manager
atruax@ecslimited.com

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

540-667-3750

804-767-5102

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1.0 SITE DESCRIPTION

The subject property consists of Jefferson Houston PK-8, a three-story brick school building located at 1501 Cameron Street in Alexandria, Virginia. The school was originally constructed in 2014 and encompasses approximately 127,500 square feet of space. 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

Previous asbestos surveys of the school did not identify asbestos. ECS performed a cursory walk through of the school to observe present conditions.

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 assumed materials were located.

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

- Review the existing management plan to determine the areas requiring re-inspection.
- 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 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.

4.1 Findings

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.

5.0 LIMITATIONS

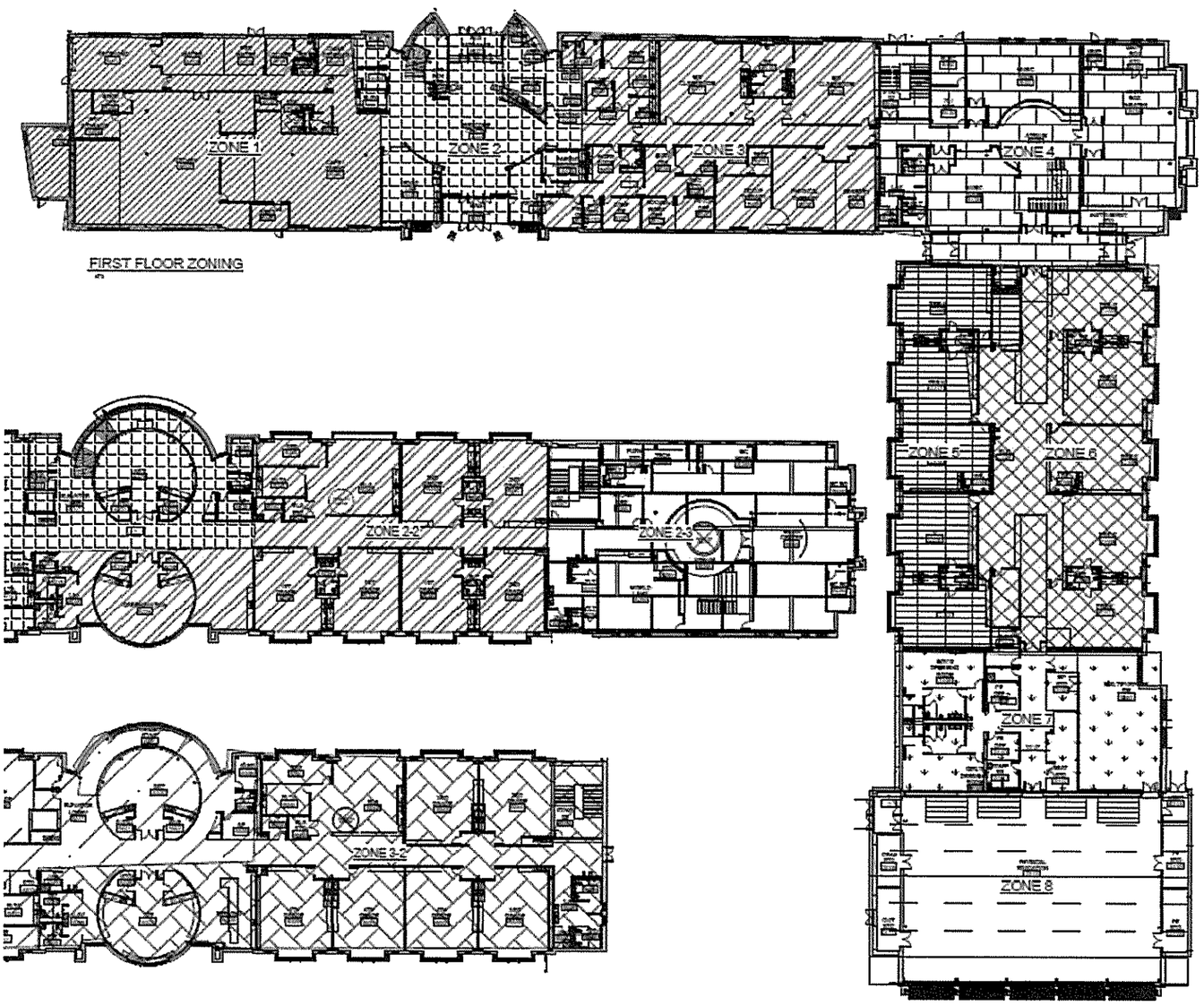
The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards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

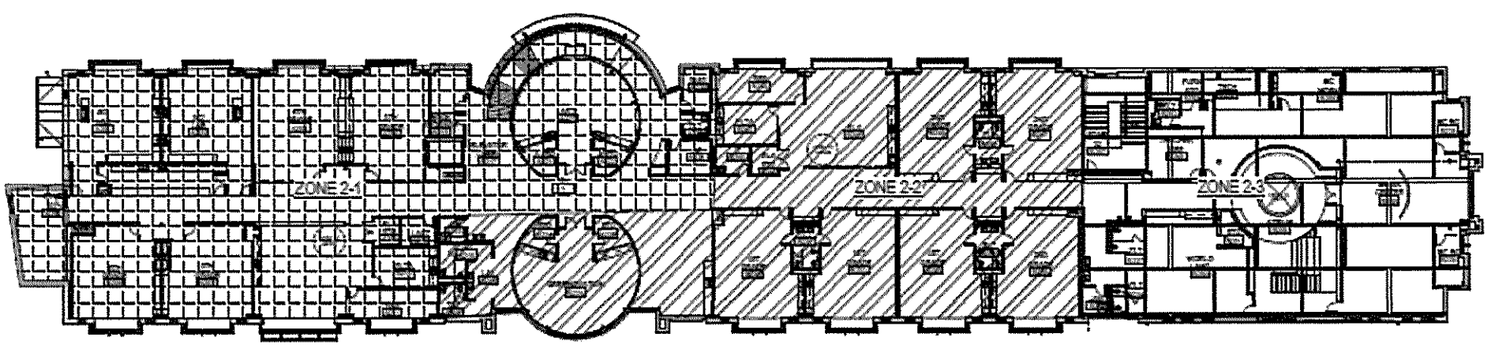
Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site 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: Floor Plan

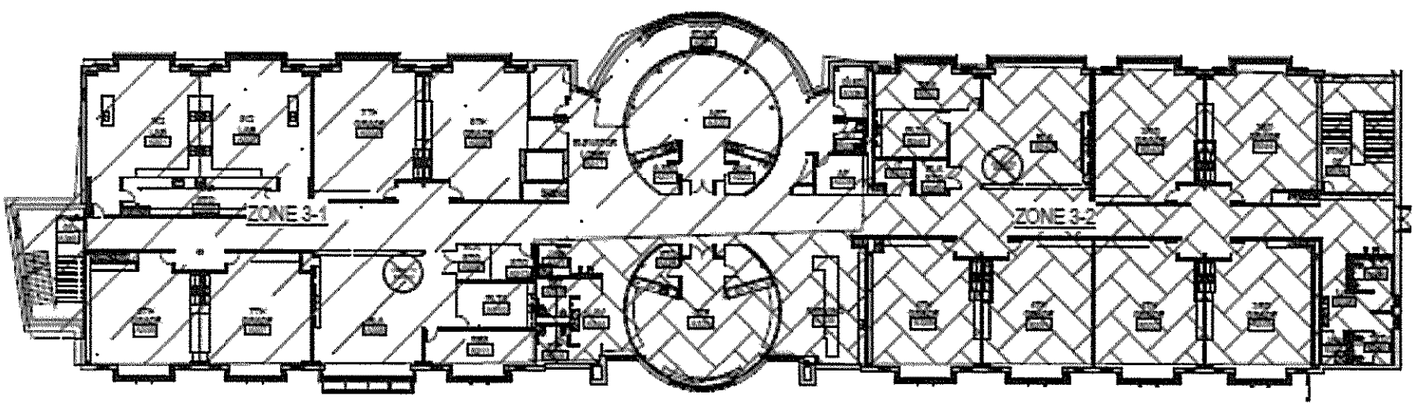
Jefferson Huston



FIRST FLOOR ZONING



SECOND FLOOR ZONING



THIRD FLOOR ZONING

Appendix II: 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

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

Appendix III: Previous Reports

AHERA ASBESTOS-CONTAINING MATERIALS SURVEY



JEFFERSON-HOUSTON PREK-8 IB SCHOOL

1501 CAMERON STREET
ALEXANDRIA, VIRGINIA 22314

ECS PROJECT NO. 47:11652-E2

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

MARCH 23, 2022

March 23, 2022

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

ECS Project No. 47:11652-E2

Reference: AHERA Asbestos-Containing Materials Survey, Jefferson-Houston PreK-8 IB School, 1501 Cameron Street, Alexandria, Virginia

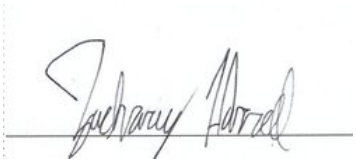
Dear Mr. Contreras:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced AHERA Asbestos-Containing Materials Survey performed at Jefferson-Houston PreK-8 IB School located at 1501 Cameron Street 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 47:11652-E2 and the terms and conditions of the agreement authorizing those services.

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

Sincerely,

ECS Mid-Atlantic, LLC



Zach Harrell
Environmental Technician
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571-334-3350



Michael Hamill, CIH, CSP
Senior Project Manager
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571-220-9941

EXECUTIVE SUMMARY

The subject property is improved with a 127,500 square foot, school building reportedly originally constructed in 2014.

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

Based on the laboratory analysis of the bulk samples collected during the survey, none of the materials were reported to contain asbestos.

Based on a review of historical documentation, no materials were previously identified as asbestos-containing and have since been abated.

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.

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Appendix VI: Previous Reports

1.0 SITE DESCRIPTION

The subject property consists of Jefferson Houston PreK-8 School, a three-story brick school building located at 1501 Cameron Street in Alexandria, Virginia. The school was reconstructed in 2014 and encompasses approximately 127,500 square feet. 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) re-inspection asbestos-containing materials survey was to determine if asbestos-containing building materials (ACBMs) are present on the subject property. The survey was performed within interior areas of the subject buildings. Exterior and roofing materials were not included in this survey. This survey is intended to provide a supporting document for an AHERA management plan.

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

3.0 METHODOLOGY

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

3.1 Asbestos-Containing Materials

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

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

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 24, 2021. None of the bulk samples submitted for analysis were reported to contain asbestos in detectable concentrations. 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, 4 bulk samples from homogeneous areas were submitted to the laboratory of which 4 layers were analyzed.

Summary of Previously Identified Asbestos-Containing Materials

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatement History
No data available in historical documentation reviewed.					

Summary of Non Asbestos-Containing Materials Identified

Location	Material Description	Analytical Results
Materials Sampled in 2021 AHERA Survey		
Stairwell Near Door 8	Red Interior Pipe packing	NAD
Exit near door 15	White Interior Brick caulk	NAD
Previously Sampled Materials		
East Wing Outside Bathroom, Cafeteria Exterior Wall, Room 207, Room 209, Room 221, Room 127 Electrical Room, & Room 127 IT	Drywall and Joint Compound	Drywall - NAD Joint Compound - NAD
Room 321 & Room 111	4" Gray Cove Base and associated Yellow Mastic	Both NAD
3rd Floor West Stairs & 1st Floor East Stairs	White CMU Block Filler	NAD
1st Floor Room 152 & 2nd Floor Room 210	White Caulk on Mop Sink	NAD
Outside Room 321 & Outside Room 111	Brownish/Red Fire Stop Caulk	NAD
Room 318	2' x 2' Pinhole Punch Ceiling Tile	NAD

Location	Material Description	Analytical Results
Outside 117, Outside 213, & Outside 321	White Wrap on Fiberglass Duct Insulation	NAD
Outside 323 & East Side Cafeteria	Gray Sink Coating	NAD
Outside Room 318 & 2nd Floor West Side Cafeteria	2' x 2' Red Rubber Floor Tile	NAD
2nd Floor West Side Cafeteria	Yellow Mastic of 2' x 2' Red Rubber Floor Tile	NAD
Outside Room 318 & Outside Main Office Room 110	Interior Classroom Window White Caulk	NAD
3rd Floor West Side Cafeteria & Main Office Room 110	Exterior Building White Window Caulk	NAD
Rooms 315 & 219	Green Carpet Mastic	NAD
Rooms 315 & 215	4" Dark Gray Cove Base and associated Yellow Mastic	Both NAD
East Stairs 1st & 2nd Floor	Gray Stair Stringer Caulk	NAD
Men's Bathroom Center of Building & Restroom Men/Women Near Room 215	White Sink Caulk	NAD
Outside Room 305	2' x 2' Light Green Rubber Floor Tile	NAD
East Side Cafeteria	2' x 2' Rubber Gray Floor Tile	NAD
Outside Room 305	2' x 2' Dark Green Rubber Tile and associated Yellow Mastic	Both NAD
Room 305 and 137	Black Window Gasket/ Glazing	NAD
Cafeteria 2nd Floor East Side	2' x 2' Light Blue Rubber Floor Tile and associated Yellow Mastic	Both NAD
Cafeteria 2nd Floor East Side	2' x 2' Dark Blue Rubber Floor Tile and associated Yellow Mastic	Both NAD
Cafeteria 2nd Floor West Side	2' x 2' Yellow/Orange Rubber Floor Tile	NAD

Location	Material Description	Analytical Results
Media Center	Gray Floor Mastic Under Carpet	NAD
1st Floor Cafeteria West Side & 2nd Floor Outside Room 207	Gray Metal Duct Mastic	NAD
1st Floor Cafeteria West Side & 3rd Floor Cafeteria West Side	White Fiberboard Acoustical Panels	NAD
Outside Room 116 Hallway & Outside Room 130 Hallway	Gray Concrete Expansion Caulk	NAD
1st Floor Center Stairwell & 3rd Floor Center Stairwell	Gray Stair Expansion Caulk Between Concrete Stair Tread	NAD
Bathroom Between Room 144-148	White Ceramic Sink Mastic/Caulk	NAD
Boiler Room	White Pipe Wrap and Bridging Mastic on Domestic Hot Water Pipe (TSI)	NAD
Boiler Room	Red Pipe Flange Gasket	NAD
Multipurpose Room	12"x12" White with Color Specks Floor Tile and Associated Brown Mastic	Both NAD
Multipurpose Room	Leveling Compound under 12"x12" White with Color Specks Floor Tile	NAD
Multipurpose Room	Brown Mastic Associated with 4" Gray Cove Base	NAD
Stage & Room 51	Brown Mastic Associated with 4" Tan Cove Base	NAD
Room 14 - above Drop Ceiling	Yellow Insulation on Lighting Fixtures	NAD
Room 14 - above Drop Ceiling	Concrete Ceiling behind Insulation	NAD
Lobby/Main Entrance	Yellow Carpet Mastic	NAD

Location	Material Description	Analytical Results
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.**		

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 or Cement Boards** associated with Baseboard Heaters/Radiator Components/Wall Mounted Fan Coil Units in and/or behind Radiators/Baseboards
- **Mastics** behind/under mirrors
- **Water Fountain Components** in water fountains (mastics, pipe cloth, etc)
- **Waterproofing Membrane/Mastics/Vapor Barriers/Sub-grade Pipe Conduit** within exterior wall cavities, behind interior finishes, exterior veneer and/or subgrade walls

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

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

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

6.0 LIMITATIONS

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

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

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

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

Appendix I: Figures

Sample 3 & 4

Sample 1 &2



▲ Sample Locations

□ Inaccessible Areas

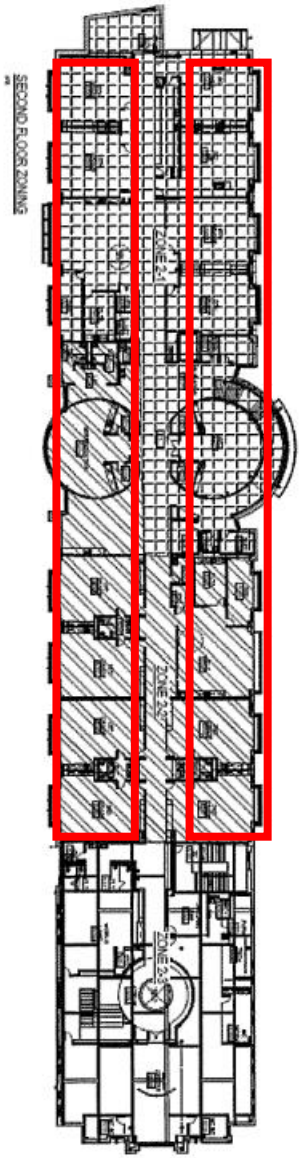
Jefferson-Houston PreK-8 IB School
1501 Cameron Street,
Alexandria, Virginia, 22314

Sample Location Sketch
First Floor

Scale: NTS

Project No.
11652-E2

Site Visit:
11/16/21



▲ Sample Locations

□ Inaccessible Areas

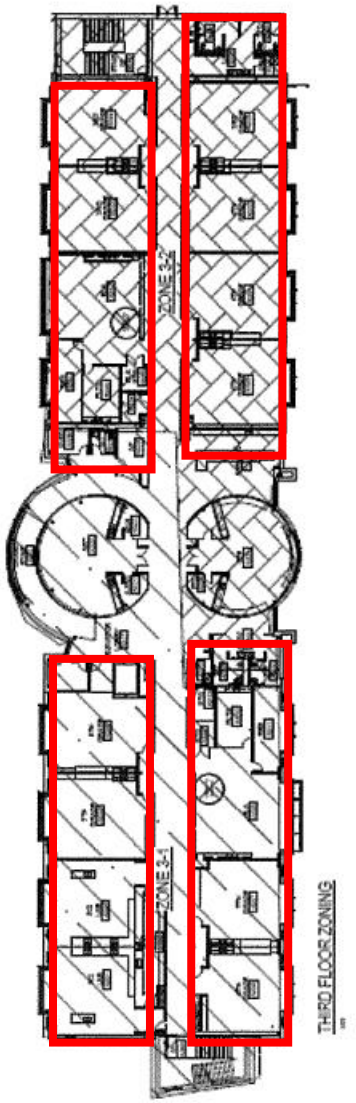
Jefferson-Houston PreK-8 IB School
1501 Cameron Street,
Alexandria, Virginia, 22314

Sample Location Sketch
Second Floor

Scale: NTS

Project No.
11652-E2

Site Visit:
11/16/21



▲ Sample Locations

□ Inaccessible Areas

Jefferson-Houston PreK-8 IB School
1501 Cameron Street,
Alexandria, Virginia, 22314

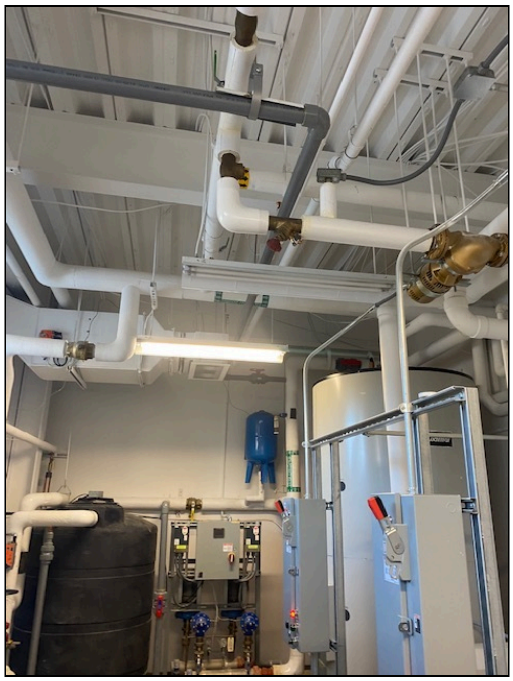
Sample Location Sketch Third Floor

Scale: NTS

Project No.
11652-E2

Site Visit:
11/16/21

Appendix II: Site Photographs



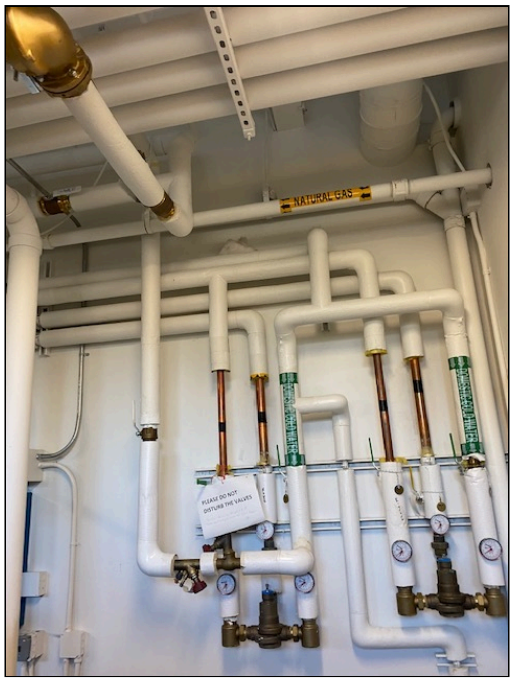
1 - View of Boiler Room



2 - View of Boiler Room 2



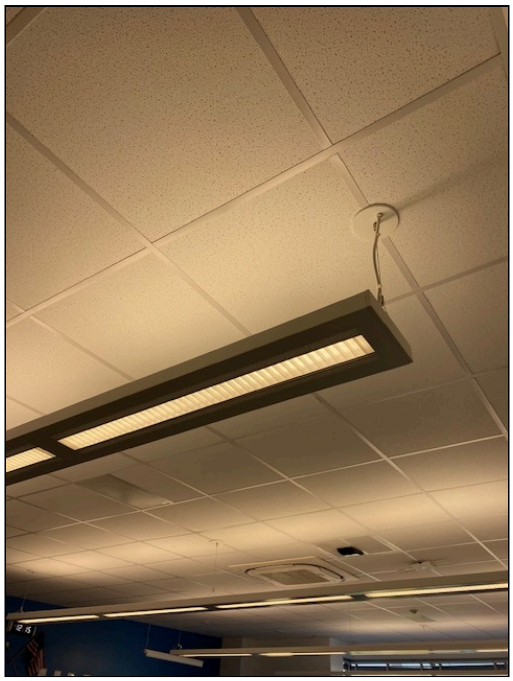
3 - View of Boiler Room 3



4 - View of Boiler Room TSI



5 - View of Boiler room TSI 2



6 - View of Ceiling Tile-In All Classrooms



7 - View of Custodial Storage Near Door 4



8 - View of Duct TSI



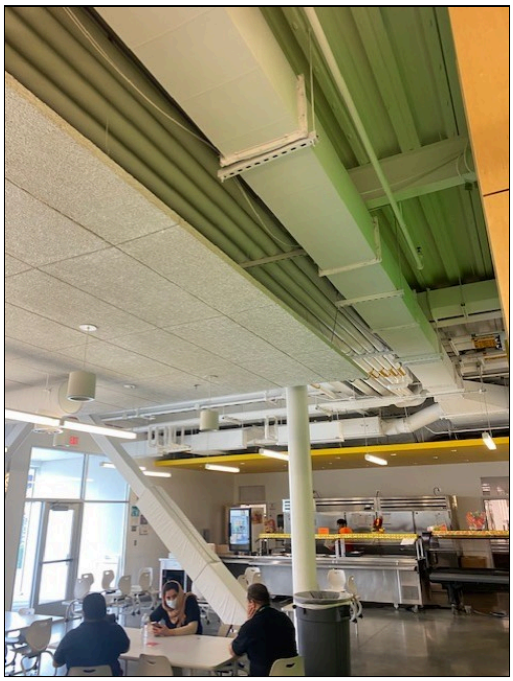
9 - View of Electric Closet



10 - View of Exit Door 4



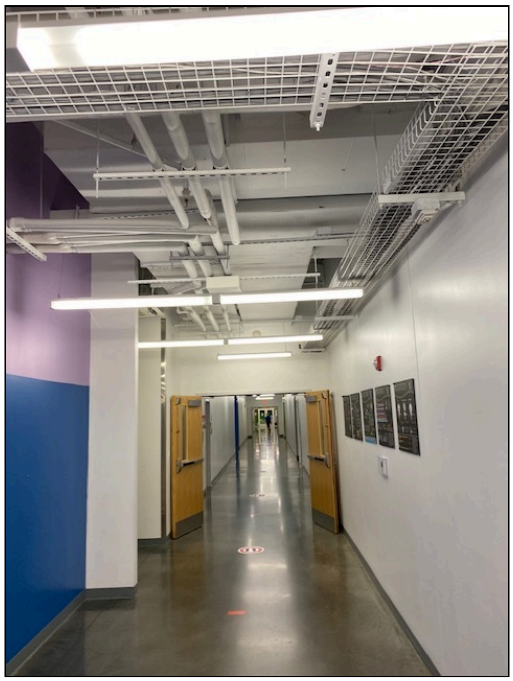
11 - View of Exit Door 11



12 - View of First Floor Cafeteria 2



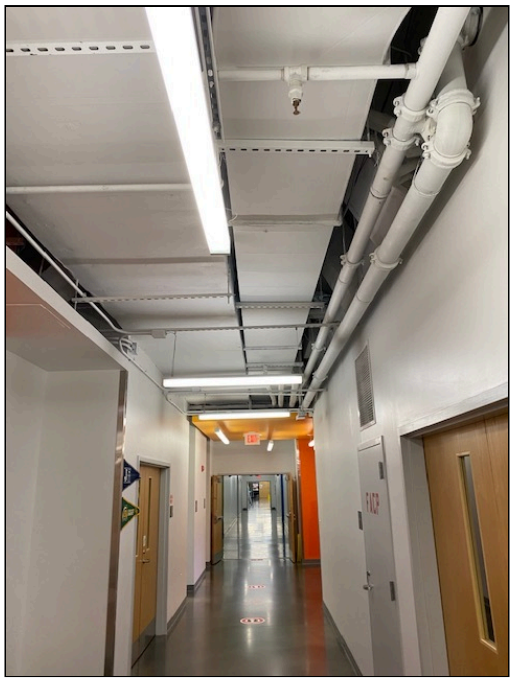
13 - View of First Floor Cafeteria Acoustic Panels



14 - View of First Floor Hallway



15 - View of First Floor Hallway Ceiling



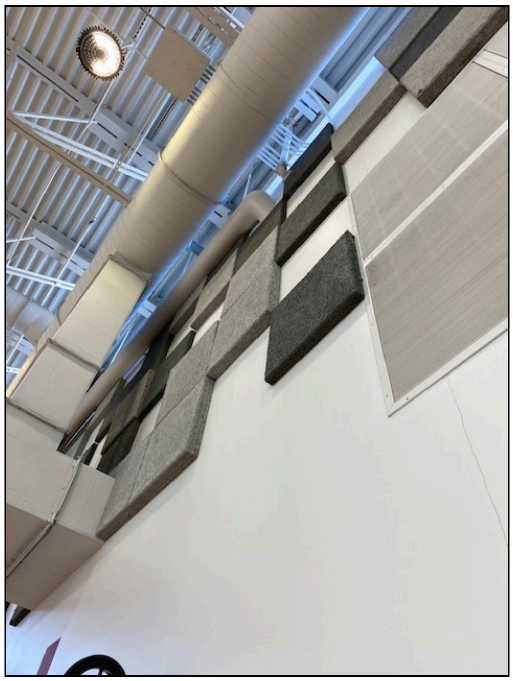
16 - View of First Floor Hallway Ducts



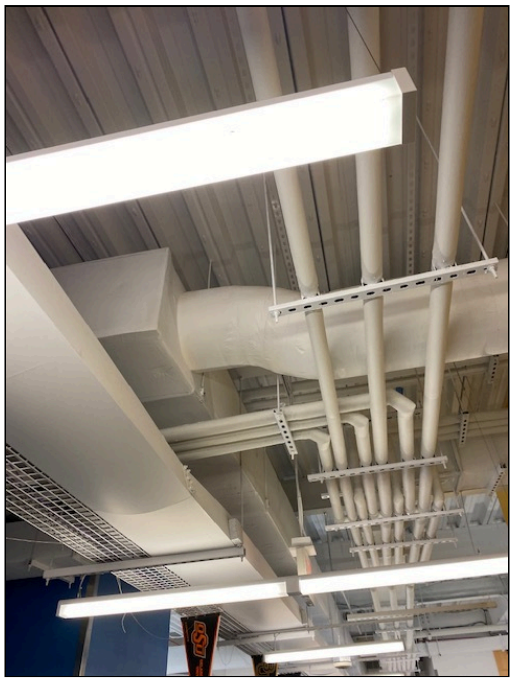
17 - View of First Floor To Gym



18 - View of Gray Concrete Expansion Compound



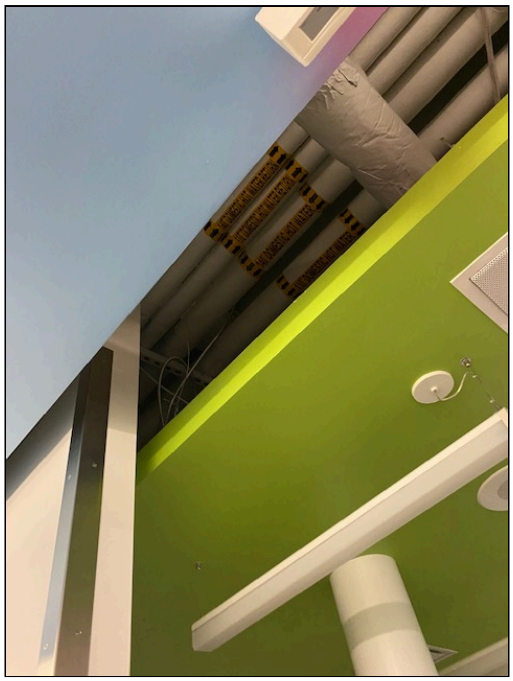
19 - View of Gym Acoustic Panels



20 - View of Hallway Ceiling TSI



21 - View of Hallway Red Wall Packing



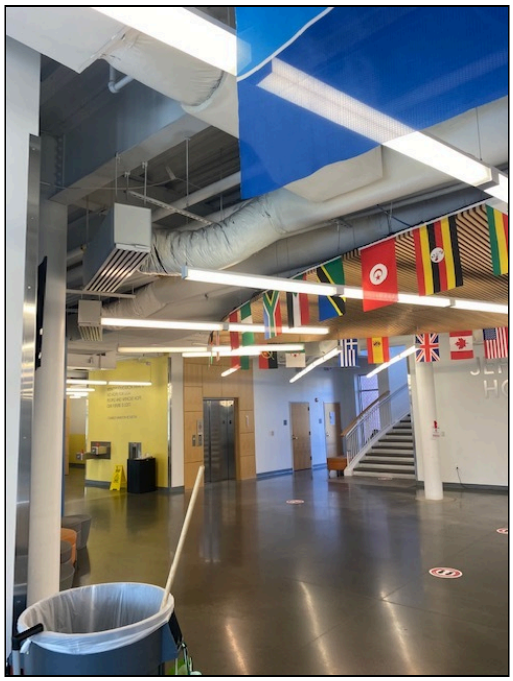
22 - View of Hallway TSI



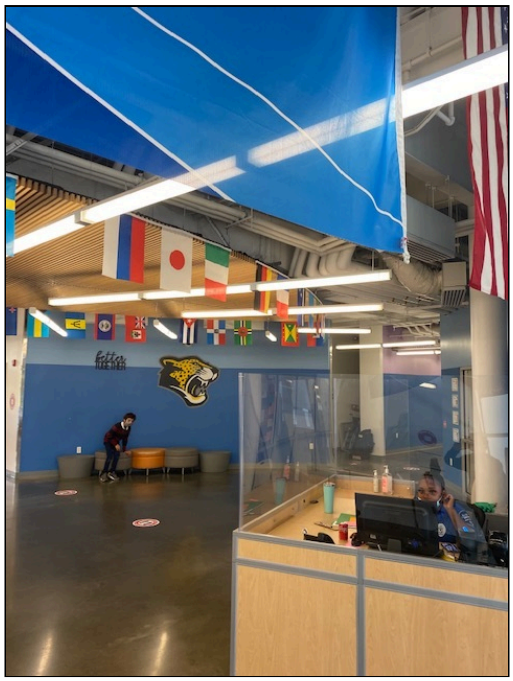
23 - View of Interior Window and Brick Caulk



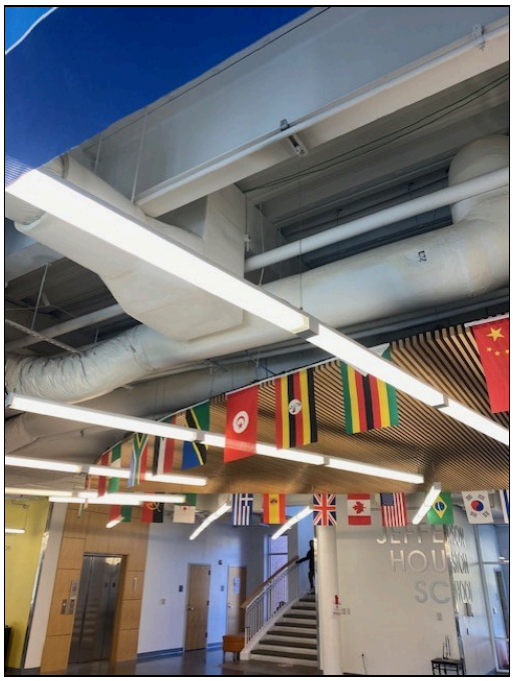
24 - View of Main Entrance



25 - View of Main Entrance Foyer



26 - View of Main Entrance Foyer 2



27 - View of Main Entrance Foyer 3



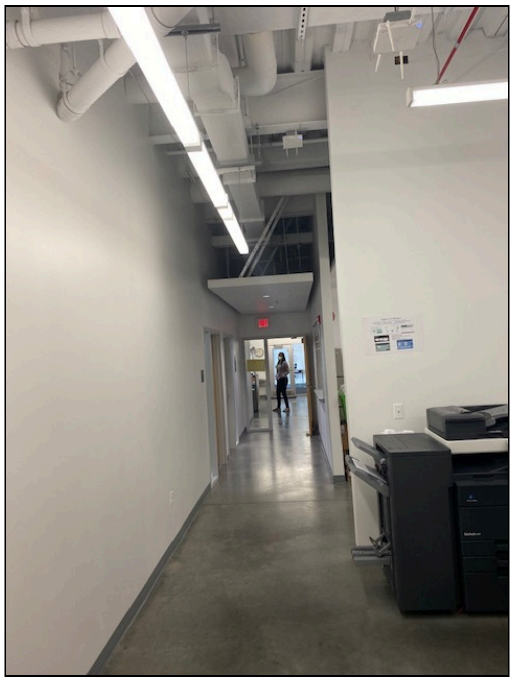
28 - View of Main Foyer Insulation Packing



29 - View of Main Foyer TSI



30 - View of Main Office Carpet



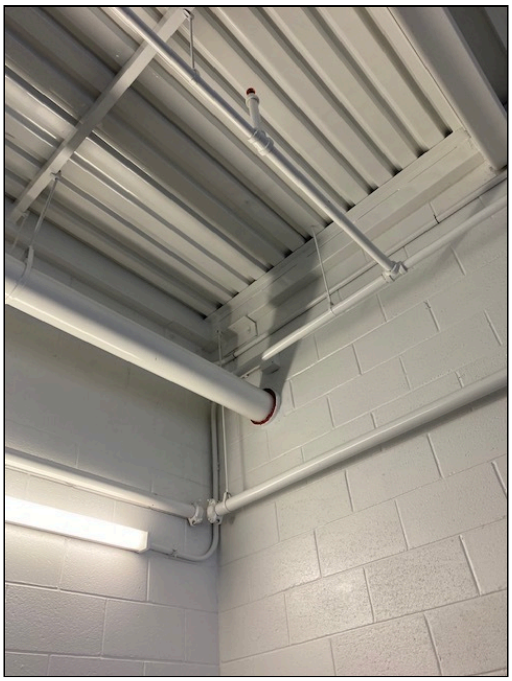
31 - View of Main Office Hallway



32 - View of Purple Self Stick Floor Tile



33 - View of Red Pipe Wall Packing



34 - View of Red Pipe Wall Packing 2



35 - View of Roof



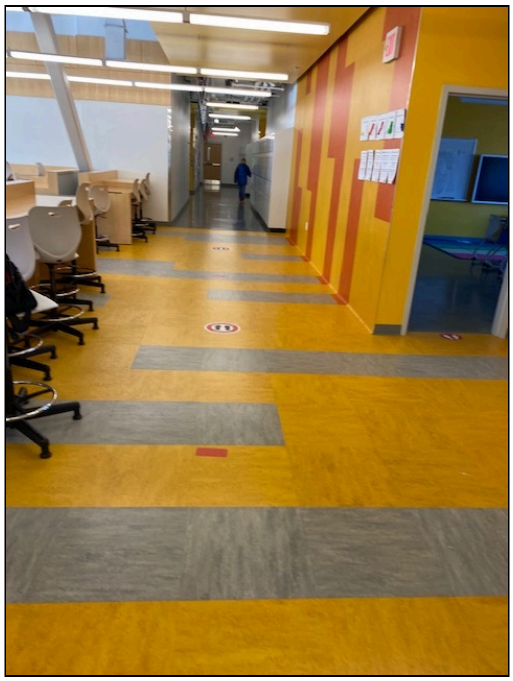
36 - View of Second Floor Cafeteria 2



37 - View of Second Floor Cafeteria Acoustic Panels



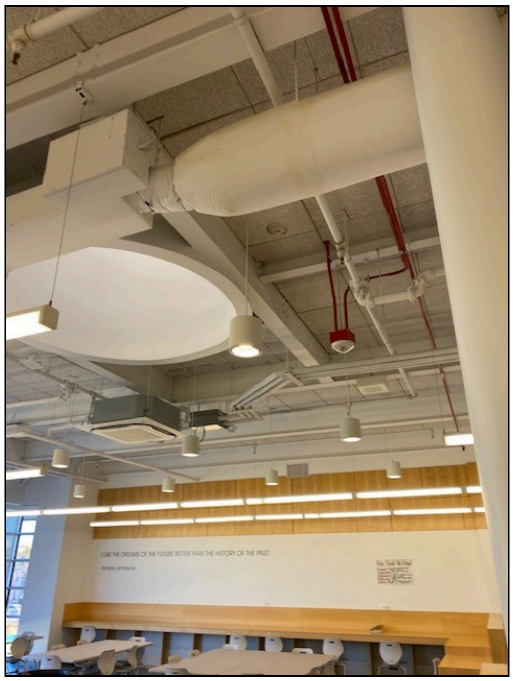
38 - View of Second Floor East Cafeteria



39 - View of Second Floor Cafeteria Yellow-Orange Floor Tile



40 - View of Second Floor East Cafeteria Acoustic Panels



41 - View of Second Floor East Cafeteria Acoustic Panels 2



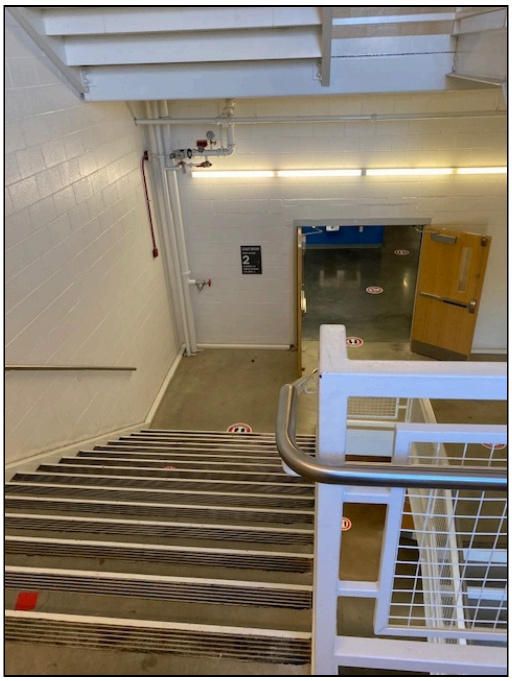
42 - View of Second Floor Hallway Ceiling TSI



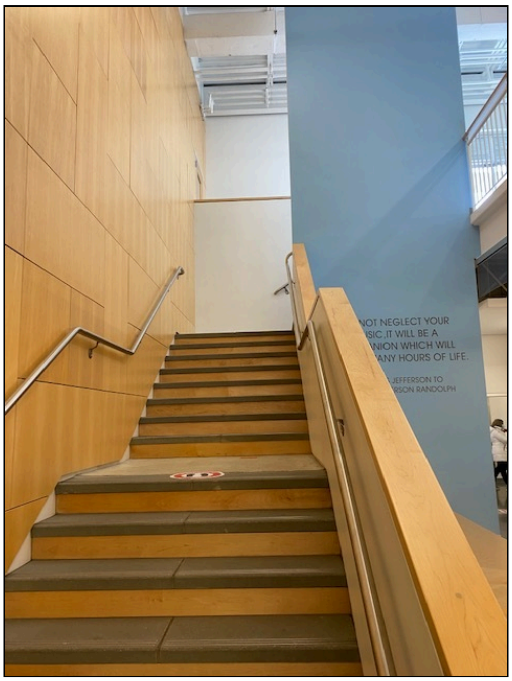
43 - View of Server Room



44 - View of Server Room 2



45 - View of Stairwell East



46 - View of Stairwell Near Media Center



47 - View of Storage Closet First Floor



48 - View of Third Floor Acoustic Panels



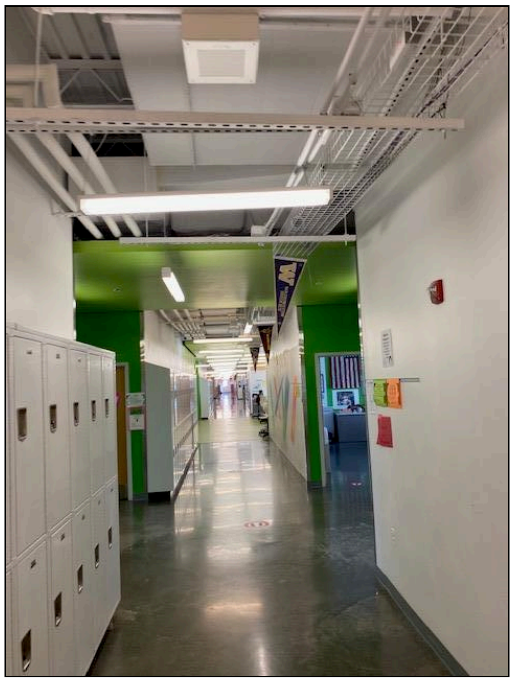
49 - View of Third Floor Hallway 2



50 - View of Third Floor Hallway Duct



51 - View of Third Floor West Cafeteria



52 - View of Third Floor Hallway



53 - View of Third Floor West Cafeteria TSI



54 - View of Third Level West Hallway Cafeteria Green Floor Tile



55 - View of TSI and Packing

Appendix III: Asbestos Bulk Sample Results

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: Lauren Kesslak

Project: 11652-E2/ AHERA ACPS Jefferson-Houston (11/16/21) Survey

Lab Order ID: 71979750
Analysis ID: 71979750_PLM
Date Received: 11/18/2021
Date Reported: 11/24/2021

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1	Red Interior pipe packing	None Detected	10% Cellulose	90% Other	Red Non Fibrous Homogeneous
71979750PLM_1					Dissolved
2	Red Interior pipe packing	None Detected	10% Cellulose	90% Other	Red Non Fibrous Homogeneous
71979750PLM_2					Dissolved
3	White interior brick caulk	None Detected		100% Other	White Non Fibrous Homogeneous
71979750PLM_3					Dissolved
4	White interior brick caulk	None Detected		100% Other	White Non Fibrous Homogeneous
71979750PLM_4					Dissolved

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

Charmel Dozier (4)

Analyst

Approved Signatory

11979750

Client:	ECS Mid-Atlantic, LLC	***Instructions:***
Contact:	Lauren Kesslak	*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:	Lkesslak@ecslimited.com	***Enter samples between "<<" and ">>"***
Project:	11652-E2/ AHERA ACPS Jefferson	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Client Notes:		*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	11652-E2/ AHERA ACPS Jefferson	*Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.*
Date Submitted:	11/16/2021 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		Red Interior pipe packing	Stairwell Near Door 8
2		Red Interior pipe packing	Stairwell Near Door 8
3		White interior brick caulk	Exit near door 15
4		White interior brick caulk	Exit near door 15
>>			

B Shirley 11/18 11AM

Accepted ☒

Rejected ☐

Relinquished By

Received By

Appendix IV: 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
3309002099

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS PROJECT MONITOR LICENSE

ZACHARY DAVID HARRELL
1927 N CAMERON ST
ARLINGTON, VA 22207

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 PROJECT MONITOR LICENSE
NUMBER: 3309002099 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)

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 V: 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 VI: Previous Reports

ASBESTOS CONTAINING MATERIALS (AHERA) SURVEY



JEFFERSON HOUSTON ELEMENTARY SCHOOL

1501 CAMERON STREET
ALEXANDRIA, VIRGINIA 22314

ECS PROJECT NO. 47:1519-D

FOR

ALEXANDRIA CITY PUBLIC SCHOOLS

JANUARY 25, 2017

January 25, 2017

Mr. Derrick Fulcher
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
derrick.fulcher@acps.k12.va.us

ECS Project No. 47:1519-D

Reference: Asbestos Containing Materials (AHERA) Survey, Jefferson Houston Elementary School, 1501 Cameron Street, Alexandria, Virginia

Dear Mr. Fulcher:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced Asbestos Containing Materials (AHERA) Survey performed at the Jefferson Houston Elementary School located at 1501 Cameron Street 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 47:1750-EPR2, ACPS PO No. 1703633, 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

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

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

EXECUTIVE SUMMARY

The subject property is improved with a three-story school building located at 1501 Cameron Street in Alexandria, Virginia. The building was reportedly constructed in 2013.

Per the United States Environmental Protection Agency (US EPA) requirements, the purpose of the survey was to evaluate the building materials within the school for asbestos-containing materials (ACMs). The non-invasive survey was performed in general per EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol.

The survey was performed for the readily accessible interior areas of the facility. Exterior and roofing materials were not included in this assessment as these areas are excluded under AHERA. During the survey, ECS attempted to locate suspect asbestos-containing building materials (ACBMs) in readily accessible areas. However, due to the destructive means required to access some materials, certain areas were deemed inaccessible (i.e. behind solid walls or sub-grade materials) and were not surveyed for suspect ACBMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas.

During our assessment, a total of 74 bulk samples were collected and a total of 83 layers were analyzed by the laboratory. Based on the laboratory analysis of the suspect bulk samples collected during the survey, none of the materials sampled were reported to contain asbestos. Please refer to Table 1 for a list of the suspect asbestos bulk samples collected during our survey. Our findings and recommendations are discussed further in this report.

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6.0 LIMITATIONS 3

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Appendix I: Table 1: Asbestos Bulk Sample Results

Appendix II: Photographs

Appendix III: Laboratory Report(s)

1.0 SITE DESCRIPTION

The subject building consists of the Jefferson Houston Elementary School located at 1501 Cameron Street in Alexandria, Virginia. The building consists of three floor levels and was reportedly constructed in 2013. The facility consists of various classrooms, offices, storage rooms, cafeteria, bathrooms, and a media center. During this assessment, floorplan drawings for the subject building were not readily available.

2.0 PURPOSE

The Asbestos Hazard Emergency Response Act (AHERA) requires public school districts to inspect their schools for asbestos-containing building materials and prepare management plans for identified asbestos containing materials and to take action to prevent or reduce asbestos hazards. This is based on an "in-place" management of asbestos-containing materials. Personnel working on asbestos activities in schools must be trained and accredited in accordance with US EPA Asbestos Model Accreditation Plan requirements. Prior to renovation or demolition of asbestos containing materials facility owners must also comply with the US EPA Asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations.

The purpose of the Asbestos Containing Materials (AHERA) Survey was to identify asbestos-containing materials (ACMs) which may require special handling and/or disposal if removed disturbed during normal routine maintenance activities performed on the building.

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). The following represents a summary of our onsite work performed on December 28, 2016.

3.1 Asbestos-Containing Materials

The non-invasive asbestos survey was performed by asbestos inspectors (License Nos. 3303002579 and 3303003536) who have received EPA accredited training and are licensed by the Commonwealth of Virginia. 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.

Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were submitted to Scientific Analytical Institute, Inc.

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

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas. In total, 74 bulk representative samples were submitted to the laboratory of which 83 layers were analyzed.

4.0 RESULTS

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

4.1 Asbestos-Containing Materials

Asbestos-Containing Material (ACMs) are defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM.

None of the materials submitted for analysis to Scientific Analytical Institute, Inc. were reported to contain asbestos. Please refer to Table 1 attached to this report for a list of the suspect asbestos bulk samples collected during our survey.

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/materials were deemed inaccessible and were not assessed during this survey.

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

Materials which are commonly suspected to contain asbestos located in inaccessible areas of similarly constructed buildings include:

- Air Handler Components in the air handlers (interior components);
- Ceramic Wall/Floor Tile Mastics/Compounds;

- Chalkboard/Bulletin Board mastics behind chalkboards/bulletin boards;
- Duct Pin Mastics associated with HVAC insulation material;
- Electrical Panels Asbestos Cement Components in electrical systems;
- Elevator Components in elevators (Panels, Brake Shoes, Roping, etc.);
- Fire Door and associated Casing Insulation in locations requiring a rated fire door and door casing;
- Mastics or cement boards associated with Baseboard Heaters/Radiators Components/Wall Mounted Fan Coil Units in and/or behind radiators/baseboards;
- Mirror Mastics behind/under mirrors;
- Roof Structures – roof systems;
- Soffit and materials within exterior soffit cavity at exterior locations;
- Water Fountain Components in water fountains (pipe cloth);
- Waterproofing Membrane/Mastics/vapor barriers within exterior wall cavities, behind Interior finishes, exterior veneer and/or subgrade walls;
- Wood Flooring Felts;

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Asbestos Containing Materials (AHERA) Survey including future plans for renovation/demolition, etc., the laboratory analysis, our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

None of the bulk samples submitted to SAI were reported to contain detectable concentrations of asbestos. If additional suspect asbestos-containing materials are uncovered during future renovation activities which were not accessible during this sampling event, it is recommended that these materials be sampled or tested immediately upon discovery for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

Suspect ACMs may be present in inaccessible areas and portions of the building which were not assessed due to occupancy or locked areas. Prior to any renovation efforts which will involve any of those areas or the demolition of the building, a follow-up survey should be performed to include destructive means to access these areas as necessary. ECS recommends that this report be filed as part of the school facilities AHERA documentation.

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: Table 1: Asbestos Bulk Sample Results

TABLE 1
JEFFERSON HOUSTON ELEMENTARY
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
1	East Wing Outside Bathroom	Drywall and Joint Compound	Drywall - NAD Joint Compound - NAD
2	East Wing Outside Bathroom	Drywall and Joint Compound	Drywall - NAD Joint Compound - NAD
3	Cafeteria Exterior Wall	Drywall and Joint Compound	Drywall - NAD Joint Compound - NAD
4	Room 207	Drywall and Joint Compound	Drywall - NAD Joint Compound - NAD
5	Room 209	Drywall and Joint Compound	Drywall - NAD Joint Compound - NAD
6	Room 221	Drywall and Joint Compound	Drywall - NAD Joint Compound - NAD
7	Room 127 Electrical Room	Drywall Joint Compound	NAD
8	Room 127 Electrical Room	Drywall and Joint Compound	Drywall - NAD Joint Compound - NAD
9	Room 127 IT	Drywall and Joint Compound	Drywall - NAD Joint Compound - NAD
10 - A	Room 321	4" Gray Cove base	NAD
10 - B	Room 321	Yellow Mastic of 4" Gray Cove Base	NAD
11 - A	Room 111	4" Gray Cove base	NAD
11 - B	Room 111	Yellow Mastic of 4" Gray Cove Base	NAD
12	3rd Floor West Stairs	White CMU Block Filler	NAD
13	1st Floor East Stairs	White CMU Block Filler	NAD
14	1st Floor East Stairs	White CMU Block Filler	NAD
15	2nd Floor Room 210	White Caulk on Mop Sink	NAD
16	1st Floor Room 152	White Caulk on Mop Sink	NAD
17	Outside Room 321	Brownish/Red Fire Stop Caulk	NAD
18	Outside Room 111	Brownish/Red Fire Stop Caulk	NAD

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

TABLE 1
JEFFERSON HOUSTON ELEMENTARY
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
19	Room 318	2' x 2' Pinhole Punch Ceiling Tile	NAD
20	Room 318	2' x 2' Pinhole Punch Ceiling Tile	NAD
21	Outside 321	White Wrap on Fiberglass Duct Insulation	NAD
22	Outside 213	White Wrap on Fiberglass Duct Insulation	NAD
23	Outside 117	White Wrap on Fiberglass Duct Insulation	NAD
24	Outside 323	Gray Sink Coating	NAD
25	East Side Cafeteria	Gray Sink Coating	NAD
26	Outside Room 318	2' x 2' Red Rubber Floor Tile	NAD
27 - A	2nd Floor West Side Cafeteria	2' x 2' Red Rubber Floor Tile	NAD
27 - B	2nd Floor West Side Cafeteria	Yellow Mastic of 2' x 2' Red Rubber Floor Tile	NAD
28	Outside Room 318	Interior Classroom Window White Caulk	NAD
29	Outside Main Office Room 110	Interior Classroom Window White Caulk	NAD
30	3rd Floor West Side Cafeteria	Exterior Building White Window Caulk	NAD
31	Main Office Room 110	Exterior Building White Window Caulk	NAD
32	Room 315	Green Carpet Mastic	NAD
33	Room 219	Green Carpet Mastic	NAD
34 - A	Room 315	4" Dark Gray Cove Base	NAD
34 - B	Room 315	Yellow Mastic of 4" Dark Gray Cove base	NAD
35 - A	Room 215	4" Dark Gray Cove Base	NAD
35 - B	Room 215	Yellow Mastic of 4" Dark Gray Cove base	NAD

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

TABLE 1
JEFFERSON HOUSTON ELEMENTARY
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
36	East Stairs 2nd Floor	Gray Stair Stringer Caulk	NAD
37	East Stairs 1st Floor	Gray Stair Stringer Caulk	NAD
38	Men's Bathroom Center of Building	White Sink Caulk	NAD
39	Restroom Men/Women Near Room 215	White Sink Caulk	NAD
40	Outside Room 305	2' x 2' Light Green Rubber Floor Tile	NAD
41	Outside Room 305	2' x 2' Light Green Rubber Floor Tile	NAD
42	East Side Cafeteria	2' x 2' Rubber Gray Floor Tile	NAD
43	East Side Cafeteria	2' x 2' Rubber Gray Floor Tile	NAD
44	Outside Room 305	2' x 2' Dark Green Rubber Tile	NAD
45 - A	Outside Room 305	2' x 2' Dark Green Rubber Tile	NAD
45 - B	Outside Room 305	Yellow Mastic of Dark Green 2' x 2' Rubber Tile	NAD
46	Room 305	Black Window Gasket/Glazing	NAD
47	Room 137	Black Window Gasket/Glazing	NAD
48	Cafeteria 2nd Floor East Side	2' x 2' Light Blue Rubber Floor Tile	NAD
49 - A	Cafeteria 2nd Floor East Side	2' x 2' Light Blue Rubber Floor Tile	NAD
49 - B	Cafeteria 2nd Floor East Side	Yellow Mastic of 2' x 2' Rubber Floor Tile	NAD
50 - A	Cafeteria 2nd Floor East Side	2' x 2' Dark Blue Rubber Floor Tile	NAD
50 - B	Cafeteria 2nd Floor East Side	Yellow Mastic of 2' x 2' Dark Blue Rubber Floor Tile	NAD
51 - A	Cafeteria 2nd Floor East Side	2' x 2' Dark Blue Rubber Floor Tile	NAD
51 - B	Cafeteria 2nd Floor East Side	Yellow Mastic of 2' x 2' Dark Blue Rubber Floor Tile	NAD

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

TABLE 1
JEFFERSON HOUSTON ELEMENTARY
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
52	Cafeteria 2nd Floor West Side	2' x 2' Yellow/Orange Rubber Floor Tile	NAD
53	Cafeteria 2nd Floor West Side	2' x 2' Yellow/Orange Rubber Floor Tile	NAD
54	Media Center	Gray Floor Mastic Under Carpet	NAD
55	Media Center	Gray Floor Mastic Under Carpet	NAD
56	2nd Floor Outside Room 207	Gray Metal Duct Mastic	NAD
57	1st Floor Cafeteria West Side	Gray Metal Duct Mastic	NAD
58	1st Floor Cafeteria West Side	White Fiberboard Acoustical Panels	NAD
59	1st Floor Cafeteria West Side	White Fiberboard Acoustical Panels	NAD
60	3rd Floor Cafeteria West Side	White Fiberboard Acoustical Panels	NAD
61	Outside Room 116 Hallway	Gray Concrete Expansion Caulk	NAD
62	Outside Room 130 Hallway	Gray Concrete Expansion Caulk	NAD
63	3rd Floor Center Stairwell	Gray Stair Expansion Caulk Between Concrete Stair Tread	NAD
64	1st Floor Center Stairwell	Gray Stair Expansion Caulk Between Concrete Stair Tread	NAD
65	Bathroom Between Room 144-148	White Ceramic Sink Mastic/Caulk	NAD
66	Bathroom Between Room 144-149	White Ceramic Sink Mastic/Caulk	NAD
67	Boiler Room	White Pipe Wrap and Bridging Mastic on Domestic Hot Water Pipe (TSI)	NAD
68	Boiler Room	White Pipe Wrap and Bridging Mastic on Domestic Hot Water Pipe (TSI)	NAD
69	Boiler Room	White Pipe Wrap and Bridging Mastic on Domestic Hot Water Pipe (TSI)	NAD
70	Boiler Room	White Pipe Wrap and Bridging Mastic on Domestic Cold Water Pipe (TSI)	NAD
71	Boiler Room	White Pipe Wrap and Bridging Mastic on Domestic Cold Water Pipe (TSI)	NAD

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

TABLE 1

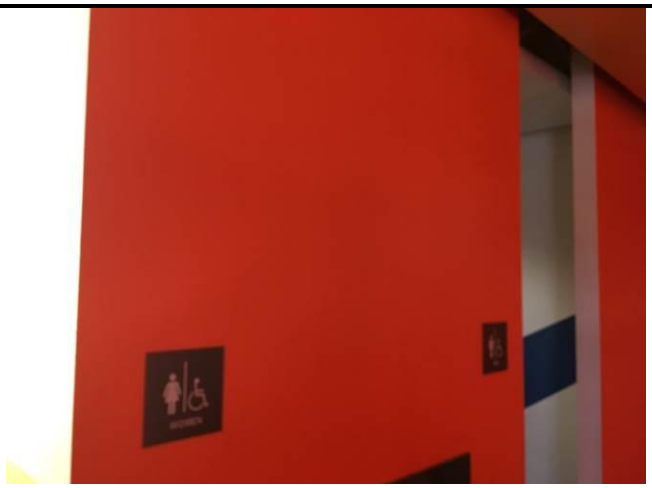
JEFFERSON HOUSTON ELEMENTARY

BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

Sample #	Sampling Location	Material/Description	Analytical Results
72	Boiler Room	White Pipe Wrap and Bridging Mastic on Domestic Cold Water Pipe (TSI)	NAD
73	Boiler Room	Red Pipe Flange Gasket	NAD
74	Boiler Room	Red Pipe Flange Gasket	NAD

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

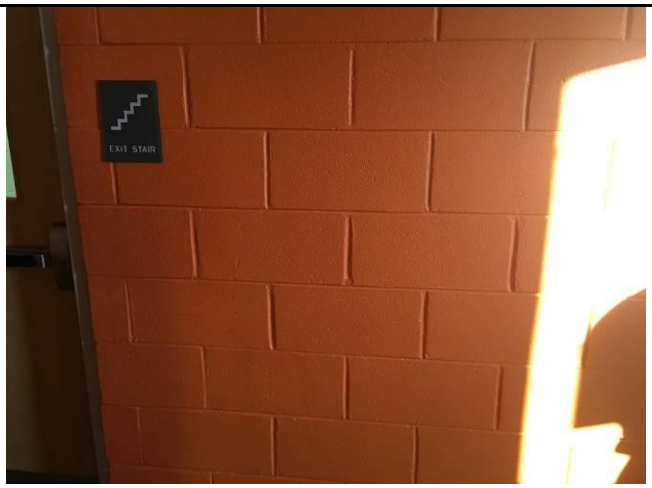
Appendix II: Photographs



1. Typical view of drywall, joint compound, Samples 1-2



2. View of 4” gray cove base, Samples 10-11



3. View of white CMU block filler, Sample 12



4. View of white caulk on mop sink, Sample 15



5. View of 2’ x 2’ pinhole punch ceiling tile, Samples 19-20



6. View of white insulation wrap on ductwork, Sample 21

Jefferson Houston Elementary
1501 Cameron Street
Alexandria, VA

Site Photographs
ECS Project No. 47:1519-D
Site Visit: December 28, 2016



7. View of gray sink undercoating, Sample 24



8. View of 2'x2' red rubber floor tile, Sample 26-27



9. View of interior white window caulk, Sample 28



10. View of white sink caulk, Sample 38



11. View of 2'x2' light green and gray floor tiles, Samples 40-43



12. View of black window gasket, Sample 46

Jefferson Houston Elementary
1501 Cameron Street
Alexandria, VA

Site Photographs
ECS Project No. 47:1519-D
Site Visit: December 28, 2016



13. View of 2'x2' light blue and dark blue floor tiles, Samples 48-51



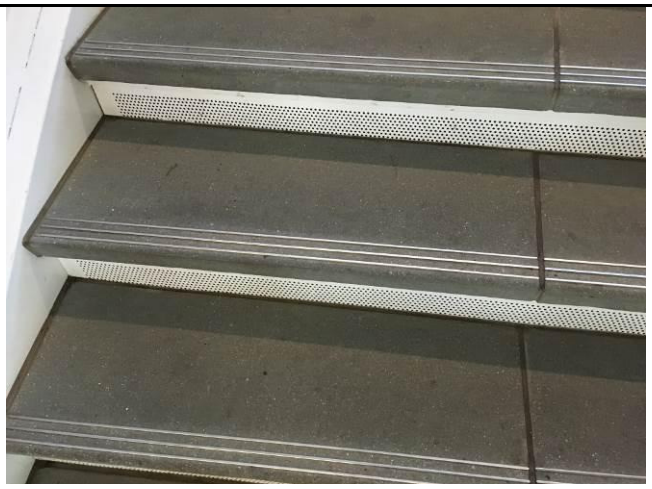
14. View of 2'x2' yellow/orange floor tile, Samples 52-53



15. View of gray metal duct mastic and white fiberboard acoustical panels, Samples 56-60



16. View of gray concrete expansion caulk, Samples 61-62



17. View of gray caulk on stair treads, Samples 63-64



18. View of white sink caulk, Samples 65-66



19. Typical view of white wrap on fiberglass insulation with white bridging mastic, Samples 67-72



20. Typical view of white wrap on fiberglass insulation with white bridging mastic, Samples 67-72



21. View of red flange gasket, Samples 73-74

Appendix III: Laboratory Report(s)

Bulk Asbestos Analysis

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

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

NVLAP Lab Code: 200664-0

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

Attn: Beverly Sedon

Project: 1519-D Jeff Houston

Lab Order ID: 1700064
Analysis ID: 1700064_PLM
Date Received: 1/3/2017
Date Reported: 1/6/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1 *1700064PLM_1*	Drywall and Joint Compound *drywall: none detect; joint compnd: none detect*	**None Detected**	**10% Cellulose** **5% Fiber Glass**	**85% Other**	Gray, White Non Fibrous Heterogeneous Crushed
2 *1700064PLM_2*	Drywall and Joint Compound *drywall: none detect; joint compnd: none detect*	**None Detected**	**10% Cellulose** **5% Fiber Glass**	**85% Other**	Gray, White Non Fibrous Heterogeneous Crushed
3 *1700064PLM_3*	Drywall and Joint Compound *drywall: none detect; joint compnd: none detect*	**None Detected**	**10% Cellulose** **5% Fiber Glass**	**85% Other**	Gray, White Non Fibrous Heterogeneous Crushed
4 *1700064PLM_4*	Drywall and Joint Compound *drywall: none detect; joint compnd: none detect*	**None Detected**	**10% Cellulose** **5% Fiber Glass**	**85% Other**	Gray, White Non Fibrous Heterogeneous Crushed
5 *1700064PLM_5*	Drywall and Joint Compound *drywall: none detect; joint compnd: none detect*	**None Detected**	**15% Cellulose**	**85% Other**	Gray, White Non Fibrous Heterogeneous Crushed
6 *1700064PLM_6*	Drywall and Joint Compound *drywall: none detect; joint compnd: none detect*	**None Detected**	**15% Cellulose**	**85% Other**	Gray, White Non Fibrous Heterogeneous Crushed
7 *1700064PLM_7*	Drywall and Joint Compound *joint compound only*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
8 *1700064PLM_8*	Drywall and Joint Compound *drywall: none detect; joint compnd: none detect*	**None Detected**	**10% Cellulose** **5% Fiber Glass**	**85% Other**	Gray, White Non Fibrous Heterogeneous Crushed

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Megan Javonovich (83)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

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

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

NVLAP®
NVLAP Lab Code: 200664-0

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Attn: Beverly Sedon

Project: 1519-D Jeff Houston

Lab Order ID: 1700064
Analysis ID: 1700064_PLM
Date Received: 1/3/2017
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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
9 *1700064PLM_9*	Drywall and Joint Compound *drywall: none detect; joint compnd: none detect*	**None Detected**	**10% Cellulose** **5% Fiber Glass**	**85% Other**	Gray, White Non Fibrous Heterogeneous Crushed
10 - A *1700064PLM_10*	4" Gray Cove base *covebase*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
10 - B *1700064PLM_76*	4" Gray Cove base *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Ashed
11 - A *1700064PLM_11*	4" Gray Cove base *covebase*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
11 - B *1700064PLM_77*	4" Gray Cove base *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Ashed
12 *1700064PLM_12*	CMU White Filler	**None Detected**		**70% Other** **30% Quartz**	Gray Non Fibrous Heterogeneous Crushed
13 *1700064PLM_13*	CMU White Filler	**None Detected**		**70% Other** **30% Quartz**	Gray Non Fibrous Heterogeneous Crushed
14 *1700064PLM_14*	CMU White Filler	**None Detected**		**70% Other** **30% Quartz**	Gray Non Fibrous Heterogeneous Crushed

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
15 *1700064PLM_15*	Janitor Sink Caulk	None Detected		100% Other	White Non Fibrous Homogeneous Ashed
16 *1700064PLM_16*	Janitor Sink Caulk	None Detected		100% Other	White Non Fibrous Homogeneous Ashed
17 *1700064PLM_17*	Brownish/Red Fire Stop Caulk	None Detected	15% Cellulose	85% Other	Red Non Fibrous Homogeneous Dissolved, Ashed
18 *1700064PLM_18*	Brownish/Red Fire Stop Caulk	None Detected	5% Fiber Glass	95% Other	Red Non Fibrous Homogeneous Ashed
19 *1700064PLM_19*	2' x 2' Pin Hole Ceiling Tile	None Detected	40% Cellulose 30% Fiber Glass	20% Perlite 10% Other	Gray Fibrous Homogeneous Ashed
20 *1700064PLM_20*	2' x 2' Pin Hole Ceiling Tile	None Detected	40% Cellulose 30% Fiber Glass	20% Perlite 10% Other	Gray Fibrous Homogeneous Ashed
21 *1700064PLM_21*	Fiberglass Duct Insulation and Wrap *wrap on fiberglass*	None Detected	30% Cellulose 10% Fiber Glass	60% Other	White Fibrous Heterogeneous Dissolved
22 *1700064PLM_22*	Fiberglass Duct Insulation and Wrap *wrap on fiberglass*	None Detected	30% Cellulose 10% Fiber Glass	60% Other	White Fibrous Heterogeneous Dissolved

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P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

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Lab Order ID: 1700064
Analysis ID: 1700064_PLM
Date Received: 1/3/2017
Date Reported: 1/6/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
23 *1700064PLM_23*	Fiberglass Duct Insulation and Wrap *wrap on fiberglass*	**None Detected**	**30% Cellulose** **10% Fiber Glass**	**60% Other**	White Fibrous Heterogeneous Dissolved
24 *1700064PLM_24*	Gray Sink Coating	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved
25 *1700064PLM_25*	Gray Sink Coating	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved
26 *1700064PLM_26*	2' x 2' Rubber Floor Tile *tile only*	**None Detected**	**30% Cellulose**	**70% Other**	Red Fibrous Homogeneous Dissolved
27 - A *1700064PLM_27*	2' x 2' Rubber Floor Tile *tile*	**None Detected**	**30% Cellulose**	**70% Other**	Red Fibrous Homogeneous Dissolved
27 - B *1700064PLM_78*	2' x 2' Rubber Floor Tile *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
28 *1700064PLM_28*	Interior Classroom Window White Caulk	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
29 *1700064PLM_29*	Interior Classroom Window White Caulk	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
30 *1700064PLM_30*	Exterior Building White Window Caulk	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Ashed
31 *1700064PLM_31*	Exterior Building White Window Caulk	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Ashed
32 *1700064PLM_32*	Green Carpet Mastic	**None Detected**		**100% Other**	Green Non Fibrous Homogeneous Dissolved
33 *1700064PLM_33*	Green Carpet Mastic	**None Detected**		**100% Other**	Green Non Fibrous Homogeneous Dissolved
34 - A *1700064PLM_34*	4" Dark Gray Cove base *covebase*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
34 - B *1700064PLM_79*	4" Dark Gray Cove base *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Ashed
35 - A *1700064PLM_35*	4" Dark Gray Cove base *covebase*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
35 - B *1700064PLM_80*	4" Dark Gray Cove base *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Ashed

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Analyst

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Bulk Asbestos Analysis

By Polarized Light Microscopy
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Lab Order ID: 1700064
Analysis ID: 1700064_PLM
Date Received: 1/3/2017
Date Reported: 1/6/2017

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
36 / *1700064PLM_36*	Gray Stair Stringer Caulk	None Detected		100% Other	White, Non Fibrous, Homogeneous / Ashed
37 / *1700064PLM_37*	Gray Stair Stringer Caulk	None Detected		100% Other	White, Non Fibrous, Homogeneous / Ashed
38 / *1700064PLM_38*	Bathroom White Sink Caulk	None Detected		100% Other	White, Non Fibrous, Homogeneous / Ashed
39 / *1700064PLM_39*	Bathroom White Sink Caulk	None Detected		100% Other	White, Non Fibrous, Homogeneous / Ashed
40 / *1700064PLM_40*	2' x 2' Rubber Tile Light Green / *tile only*	None Detected	30% Cellulose 10% Synthetic Fibers	60% Other	Green, Fibrous, Homogeneous / Dissolved
41 / *1700064PLM_41*	2' x 2' Rubber Tile Light Green / *tile only*	None Detected	30% Cellulose 10% Synthetic Fibers	60% Other	Green, Fibrous, Homogeneous / Dissolved
42 / *1700064PLM_42*	2' x 2' Rubber Tile Gray / *tile only*	None Detected	30% Cellulose	70% Other	Gray, Fibrous, Homogeneous / Dissolved
43 / *1700064PLM_43*	2' x 2' Rubber Tile Gray / *tile only*	None Detected	30% Cellulose	70% Other	Gray, Fibrous, Homogeneous / Dissolved

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Megan Javonovich (83)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

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

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

NVLAP Lab Code: 200664-0

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

Attn: Beverly Sedon

Project: 1519-D Jeff Houston

Lab Order ID: 1700064
Analysis ID: 1700064_PLM
Date Received: 1/3/2017
Date Reported: 1/6/2017

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
44	2' x 2' Rubber Tile Dark Green	None Detected	30% Cellulose	70% Other	Green Fibrous Homogeneous
1700064PLM_44	*tile only*				Dissolved
45 - A	2' x 2' Rubber Tile Dark Green	None Detected	30% Cellulose	70% Other	Green Fibrous Homogeneous
1700064PLM_45	*tile*				Dissolved
45 - B	2' x 2' Rubber Tile Dark Green	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1700064PLM_81	*mastic*				Dissolved
46	Black Window Gasket/Glaze	None Detected		100% Other	Black Non Fibrous Homogeneous
1700064PLM_46					Ashed
47	Black Window Gasket/Glaze	None Detected		100% Other	Black Non Fibrous Homogeneous
1700064PLM_47					Ashed
48	2' x 2' Rubber Tile Light Blue	None Detected	30% Cellulose	70% Other	Blue Fibrous Homogeneous
1700064PLM_48	*tile only*				Dissolved
49 - A	2' x 2' Rubber Tile Light Blue	None Detected	30% Cellulose	70% Other	Blue Fibrous Homogeneous
1700064PLM_49	*tile*				Dissolved
49 - B	2' x 2' Rubber Tile Light Blue	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1700064PLM_82	*mastic*				Dissolved

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Bulk Asbestos Analysis

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

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Lab Order ID: 1700064
Analysis ID: 1700064_PLM
Date Received: 1/3/2017
Date Reported: 1/6/2017

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
50 - A	2' x 2' Rubber Tile Dark Blue	None Detected	30% Cellulose	70% Other	Blue Fibrous Homogeneous
1700064PLM_50	*tile*				Dissolved
50 - B	2' x 2' Rubber Tile Dark Blue	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1700064PLM_83	*mastic*				Dissolved
51 - A	2' x 2' Rubber Tile Dark Blue	None Detected	30% Cellulose	70% Other	Blue Fibrous Homogeneous
1700064PLM_51	*tile*				Dissolved
51 - B	2' x 2' Rubber Tile Dark Blue	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1700064PLM_84	*mastic*				Dissolved
52	2' x 2' Rubber Tile Yellow/Orange	None Detected	30% Cellulose	70% Other	Orange Fibrous Homogeneous
1700064PLM_52	*tile only*				Dissolved
53	2' x 2' Rubber Tile Yellow/Orange	None Detected	30% Cellulose	70% Other	Orange Fibrous Homogeneous
1700064PLM_53	*tile only*				Dissolved
54	Gray Mastic Under Carpet	None Detected		100% Other	Gray Non Fibrous Homogeneous
1700064PLM_54					Dissolved
55	Gray Mastic Under Carpet	None Detected		100% Other	Gray Non Fibrous Homogeneous
1700064PLM_55					Dissolved

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Bulk Asbestos Analysis

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

NVLAP® NVLAP Lab Code: 200664-0

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

Attn: Beverly Sedon

Project: 1519-D Jeff Houston

Lab Order ID: 1700064
Analysis ID: 1700064_PLM
Date Received: 1/3/2017
Date Reported: 1/6/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
56 *1700064PLM_56*	Gray Metal Duct Mastic	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
57 *1700064PLM_57*	Gray Metal Duct Mastic	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
58 *1700064PLM_58*	Fiberboard Acoustical Panels	**None Detected**	**90% Cellulose**	**10% Other**	White Fibrous Homogeneous Ashed
59 *1700064PLM_59*	Fiberboard Acoustical Panels	**None Detected**	**90% Cellulose**	**10% Other**	White Fibrous Homogeneous Ashed
60 *1700064PLM_60*	Fiberboard Acoustical Panels	**None Detected**	**90% Cellulose**	**10% Other**	White Fibrous Homogeneous Ashed
61 *1700064PLM_61*	Concrete Expansion Caulk	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
62 *1700064PLM_62*	Concrete Expansion Caulk	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
63 *1700064PLM_63*	Stair Expansion Caulk Between Concrete Stair Tread	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed

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P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

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Chantilly, VA 20151

Attn: Beverly Sedon

Project: 1519-D Jeff Houston

Lab Order ID: 1700064
Analysis ID: 1700064_PLM
Date Received: 1/3/2017
Date Reported: 1/6/2017

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
64 / *1700064PLM_64*	Stair Expansion Caulk Between Concrete Stair Tread /	None Detected		100% Other	Gray, Non Fibrous, Homogeneous / Ashed
65 / *1700064PLM_65*	Ceramic Sink Mastic/Caulk /	None Detected		100% Other	White, Non Fibrous, Homogeneous / Ashed
66 / *1700064PLM_66*	Ceramic Sink Mastic/Caulk /	None Detected		100% Other	White, Non Fibrous, Homogeneous / Ashed
67 / *1700064PLM_67*	Domestic Hot Water Pipe Bridging / *wrap on fiberglass*	None Detected		100% Other	White, Non Fibrous, Homogeneous / Dissolved
68 / *1700064PLM_68*	Domestic Hot Water Pipe Bridging / *wrap on fiberglass*	None Detected	5% Wollastonite	95% Other	White, Non Fibrous, Homogeneous / Dissolved
69 / *1700064PLM_69*	Domestic Hot Water Pipe Bridging / *wrap on fiberglass*	None Detected		100% Other	White, Non Fibrous, Homogeneous / Dissolved
70 / *1700064PLM_70*	Domestic Cold Water Pipe Bridging / *wrap on fiberglass*	None Detected	30% Cellulose 10% Fiber Glass	60% Other	White, Fibrous, Heterogeneous / Dissolved
71 / *1700064PLM_71*	Domestic Cold Water Pipe Bridging / *wrap on fiberglass*	None Detected	30% Cellulose 10% Fiber Glass	60% Other	White, Fibrous, Heterogeneous / Dissolved

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Bulk Asbestos Analysis

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EPA Method: 600/R-93/116 and 600/M4-82-020

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NVLAP Lab Code: 200664-0

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

Attn: Beverly Sedon

Project: 1519-D Jeff Houston

Lab Order ID: 1700064
Analysis ID: 1700064_PLM
Date Received: 1/3/2017
Date Reported: 1/6/2017

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	*Lab Notes*				Treatment
72	Domestic Cold Water Pipe Bridging	**None Detected**		**100% Other**	White Non Fibrous Homogeneous
1700064PLM_72	*wrap on fiberglass*				Dissolved
73	Pipe Flange Gasket Red	**None Detected**		**100% Other**	Red Non Fibrous Homogeneous
1700064PLM_73					Ashed
74	Pipe Flange Gasket Red	**None Detected**		**100% Other**	Red Non Fibrous Homogeneous
1700064PLM_74					Ashed

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Megan Javonovich (83)

Analyst

Approved Signatory

Client:	ECS Mid-Atlantic, LLC	***Instructions:***
Contact:	Beverly Sedon	*Use Column "B" for your contact info*
Address:	14026 Thunderbolt Place,	
Phone:	(703)-471-8400	*To See an Example Click the bottom Example Tab.*
Fax:		
Email:	bsedon@ecslimited.com	***Enter samples between "<<" and ">>"***
Project:	1519-D Jeff Houston	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Client Notes:	**POSITIVE STOP (Except on Plaster and Drywall Samples)**	*Only Enter your data on the first sheet "Sheet1"*
P.O. #:	47:1519-D	*Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.*
Date Submitted:		
Analysis:	PLM EPA 600/R-93/116	
TurnAroundTime:	5 day TAT	

1700064

Scientific Analytical Institute

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

Sample Number	Sample Description	Data 2
<<		
1	Drywall and Joint Compound	East Wing Outside Bathroom
2	Drywall and Joint Compound	East Wing Outside Bathroom
3	Drywall and Joint Compound	Cafeteria Exterior Wall
4	Drywall and Joint Compound	Room 207
5	Drywall and Joint Compound	Room 209
6	Drywall and Joint Compound	Room 221
7	Drywall and Joint Compound	Room 127 Electrical Room
8	Drywall and Joint Compound	Room 127 Electrical Room
9	Drywall and Joint Compound	Room 127 IT
10	4" Gray Cove base	Room 321
11	4" Gray Cove base	Room 111
12	CMU White Filler	3rd Floor West Stairs
13	CMU White Filler	1st Floor East Stairs
14	CMU White Filler	1st Floor East Stairs
15	Janitor Sink Caulk	2nd Floor Room 210
16	Janitor Sink Caulk	1st Floor Room 152
17	Brownish/Red Fire Stop Caulk	Outside Room 321
18	Brownish/Red Fire Stop Caulk	Outside Room 111
19	2' x 2' Pin Hole Ceiling Tile	Room 318
20	2' x 2' Pin Hole Ceiling Tile	Room 318
21	Fiberglass Duct Insulation and Wrap	Outside 321
22	Fiberglass Duct Insulation and Wrap	Outside 213
23	Fiberglass Duct Insulation and Wrap	Outside 117
24	Gray Sink Coating	Outside 323
25	Gray Sink Coating	East Side Cafeteria
26	2' x 2' Rubber Floor Tile	Outside Room 318
27	2' x 2' Rubber Floor Tile	2nd Floor West Side Cafeteria
28	Interior Classroom Window White Caulk	Outside Room 318
29	Interior Classroom Window White Caulk	Outside Main Office Room 110
30	Exterior Building White Window Caulk	3rd Floor West Side Cafeteria
31	Exterior Building White Window Caulk	Main Office Room 110
32	Green Carpet Mastic	Room 315
33	Green Carpet Mastic	Room 219
34	4" Dark Gray Cove base	Room 315
35	4" Dark Gray Cove base	Room 215
36	Gray Stair Stringer Caulk	East Stairs 2nd Floor
37	Gray Stair Stringer Caulk	East Stairs 1st Floor
38	Bathroom White Sink Caulk	Men's Bathroom Center of Building
39	Bathroom White Sink Caulk	Restroom Men/Women Near Room 215
40	2' x 2' Rubber Tile Light Green	Outside Room 305
41	2' x 2' Rubber Tile Light Green	Outside Room 305
42	2' x 2' Rubber Tile Gray	East Side Cafeteria
43	2' x 2' Rubber Tile Gray	East Side Cafeteria
44	2' x 2' Rubber Tile Dark Green	Outside Room 305
45	2' x 2' Rubber Tile Dark Green	Outside Room 305
46	Black Window Gasket/Glaze	Room 305
47	Black Window Gasket/Glaze	Room 137
48	2' x 2' Rubber Tile Light Blue	Cafeteria 2nd Floor East Side
49	2' x 2' Rubber Tile Light Blue	Cafeteria 2nd Floor East Side
50	2' x 2' Rubber Tile Dark Blue	Cafeteria 2nd Floor East Side
51	2' x 2' Rubber Tile Dark Blue	Cafeteria 2nd Floor East Side
52	2' x 2' Rubber Tile Yellow/Orange	Cafeteria 2nd Floor West Side
53	2' x 2' Rubber Tile Yellow/Orange	Cafeteria 2nd Floor West Side
54	Gray Mastic Under Carpet	Media Center
55	Gray Mastic Under Carpet	Media Center
56	Gray Metal Duct Mastic	2nd Floor Outside Room 207
57	Gray Metal Duct Mastic	1st Floor Cafeteria West Side
58	Fiberboard Acoustical Panels	1st Floor Cafeteria West Side

Accepted ☑

Rejected ☐

MCC 1/2 2PM

1700064

59	Fiberboard Acoustical Panels	1st Floor Cafeteria West Side
60	Fiberboard Acoustical Panels	3rd Floor Cafeteria West Side
61	Concrete Expansion Caulk	Outside Room 116 Hallway
62	Concrete Expansion Caulk	Outside Room 130 Hallway
63	Stair Expansion Caulk Between Concrete Stair Tread	3rd Floor Center Stairwell
64	Stair Expansion Caulk Between Concrete Stair Tread	1st Floor Center Stairwell
65	Ceramic Sink Mastic/Caulk	Bathroom Between Room 144-148
66	Ceramic Sink Mastic/Caulk	Bathroom Between Room 144-149
67	Domestic Hot Water Pipe Bridging	Boiler Room
68	Domestic Hot Water Pipe Bridging	Boiler Room
69	Domestic Hot Water Pipe Bridging	Boiler Room
70	Domestic Cold Water Pipe Bridging	Boiler Room
71	Domestic Cold Water Pipe Bridging	Boiler Room
72	Domestic Cold Water Pipe Bridging	Boiler Room
73	Pipe Flange Gasket Red	Boiler Room
74	Pipe Flange Gasket Red	Boiler Room

>>