

June 11, 2024

Rick Underwood Director of Operations & Maintenance Lowell Public Schools 155 Merrimack Street, 4<sup>th</sup> Floor Lowell, Massachusetts 01852

#### RE: AHERA 3-Year Reinspection Laura Lee Therapeutic Day School 235 Powell Street Lowell, Massachusetts EFI Project No. 014.07795

Dear Rick:

EFI Global Inc. (EFI) is pleased to present this AHERA 3-Year Reinspection Report prepared for the Laura Lee Therapeutic Day School located at 235 Powell Street, Lowell, Massachusetts (Site). The reinspection site visit was conducted on April 18, 2024, and the corresponding report was completed in accordance with the United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR 763) and Massachusetts Department of Labor Standards "Requirements for Schools Subject to AHERA" regulations (454 CMR 28.13).

EFI relied upon previous 3-Year Inspection and Management Plan Update report from 2014 prepared by Cardo ATC, and 2017 and 2020 reinspection's prepared by EFI Global Inc. The original AHERA Management Plan and other subsequent records were not made available at the school or at the administrative office for review. EFI relied upon the 2020 table of identified ACM along with visual assessment and bulk sampling of new materials for this reinspection. The school's Management Plan and records should be located and kept on file at the school and the administrative offices.

EFI is pleased to provide environmental consulting services to Lowell Public Schools. This report should be kept on file with the school's AHERA records. If you have any questions regarding the contents of this report, or need additional information, please contact either of the undersigned at (800) 659-1202. Thank you for the opportunity to serve your environmental needs.

Sincerely, **EFI Global, Inc.** 

Muchael MCarta

Michael McCarter Senior Project Manager MA Asbestos Inspector # AI 001825

John Vaz Senior Project Manager MA Asbestos Management Planner #AP 900524

via email: runderwood@lowell.k12.ma.us

#### **AHERA 3-YEAR REINSPECTION**

FOR:

LAURA LEE THERAPEUTIC DAY SCHOOL 235 POWELL STEET LOWELL, MASSACHUSETTS

PREPARED BY:



155 WEST STREET, SUITE 6 WILMINGTON, MASSACHUSETTS 01887

EFI PROJECT NUMBER 014.07795

June 11, 2024

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#### **INTRODUCTION**

EFI Global, Inc. (EFI) was retained by Lowell Public Schools to perform a 3-Year AHERA Reinspection in accordance with United States Environmental Protection (USEPA) Asbestos Hazard Emergency Response Act (AHERA) asbestos regulations (40 CFR 763) and Massachusetts Department of Labor Standards "Requirements for Schools Subject to AHERA" regulations (454 CMR 28.13). These regulations, commonly known as the "Asbestos in Schools Rule," require under 40 CFR 763.80 and 454 CMR 28.13(2)(b)(1) that local education agencies (LEAs) must conduct a reinspection at least once every three years of all friable and nonfriable known or assumed asbestos-containing materials (ACMs). The reinspection includes all previously known and assumed ACMs, as well as any additional suspect ACM not previously included, as required by 40 CFR 763.80 and 454 CMR 28.13 in each school building leased, owned, or otherwise used as a school building. A school building is defined in 454 CMR 28.02 as including each of the following:

- Any structure suitable for use as a classroom, including a school facility such as a library, school eating facility, or facility used in the preparation of food
- Any gymnasium or other facility which is specially designed for athletic or recreational activities for an academic course in physical education
- Any other facility used for the instruction or housing of students or for the administration of educational or research programs
- Any maintenance, storage, or utility facility, including any hallway, essential to the operation of any facility described as a school building above
- Any portico or covered exterior hallway or walkway
- Any exterior portion of a mechanical system used to condition interior space.

EFI conducted a 3-year AHERA reinspection at the Laura Lee Therapeutic Day School, which involved determining the condition and hazard potential of previously known and assumed ACMs, and additional confirmed and assumed ACMs observed during the 2024 reinspection. The 3-year reinspection was conducted on April 18, 2024, by Michael McCarter, an EPA accredited and Massachusetts Department of Labor Standards (MADLS) licensed Asbestos Inspector, (license number AI-001825). EFI relied upon the 2020 3-year reinspection table of identified ACM along with visual assessment and bulk sampling of new materials for this reinspection. The original AHERA Management Plan and other subsequent records were not made available at the school or at the administrative offices for review. The recommended response actions were prepared by MADLS-licensed Asbestos Management Planner John Vaz (AP-900524).

A summary of known and assumed ACM within the Laura Lee Therapeutic Day School is presented in the AHERA Summary Table in **Attachment A**. Site Plans showing buildings and locations referenced in this report are presented in **Attachment B**.

The Designated Person for the Lowell Public Schools is Rick Underwood. Rick's contact information is:

Rick Underwood Director of Operations & Maintenance Lowell Public Schools 155 Merrimack Street, 4<sup>th</sup> Floor Lowell, Massachusetts 01852 978-674-4328 <u>runderwood@lowell.k12.ma.us</u>

#### **AHERA 3-YEAR REINSPECTION**

#### A. AHERA Records Review

As part of this 3-year reinspection, EFI reviewed available AHERA records for the school, in accordance with the AHERA regulation and 454 CMR 28.13(5)(f). A summary of records reviewed is provided in the table below.

| Review of AHERA Documentation<br>Laura Lee Therapeutic Day School<br>235 Powell Street, Lowell, Massachusetts   |          |  |  |  |  |
|---|----------|--|--|--|--|
| Document/Record   | Present? | Comment  |  |  |  |
| Asbestos Management Plan (on hand at school and available for review)   | No       | No records available at the school or<br>administrative offices for review. The Cardo ATC<br>2014 3-Year Reinspection and Updated<br>Management Plan is posted on the school's web<br>site. EFI also relied upon in-house records from<br>the 2017 and 2020 reinspection's.  |  |  |  |
| Designated Person (Rick Underwood)<br>Training Records  | No       | No records available at the school or<br>administrative offices for review. Designated<br>Person should receive formal designated person<br>training or review the Designated Person Self<br>Study Guide (available at<br><u>https://www.epa.gov/sites/default/files/2015-01/documents/dp_study_guide_0.pdf</u> ). |  |  |  |
| Custodial Personnel 2-hour Awareness  | No       | No records available at the school or  |  |  |  |
| Training Records  |          | administrative offices for review.   |  |  |  |
| Annual Parental Notification Records  | No       | No records available at the school or<br>administrative offices for review. Annual<br>notification letters should be sent or posted on<br>the school's web site, and copies kept on file<br>with the AHERA records.  |  |  |  |
| Abatement/Response Action Records<br>(includes abatement, special cleaning<br>activities & small-scale short duration<br>(SSSD) activities and associated<br>monitoring reports and work plans) | No       | No records available at the school or administrative offices for review.   |  |  |  |
| Designated Person True and Correct<br>Statement   | No       | No records available at the school or administrative offices for review.   |  |  |  |
| 6-month Surveillance Inspection<br>Records  | No       | No records available at the school or administrative offices for review.   |  |  |  |
| Previous 3-Year Reinspection Records  | No       | No records available at the school or administrative offices for review.   |  |  |  |
| Asbestos Labels present (required in routine maintenance areas)   | No       | No labels observed. Labels should be placed<br>immediately adjacent to ACM present in routine<br>maintenance areas (i.e., boiler rooms, utility<br>closets, etc.)  |  |  |  |

#### B. ACM Application Types

ACMs are divided into the following application types:

<u>Thermal system insulation (TSI)</u>: Insulation applied to mechanical, heating, and cooling systems such as pipes, boilers, flue breechings, ducts, tanks and fittings.

<u>Surfacing Materials</u>: Material that is spray-applied or trowel-applied to walls, ceilings or structural components (i.e., plasters, acoustical finishes and fireproofing).

<u>Miscellaneous Materials</u>: All other asbestos materials, including but not limited to floor tiles and mastic, ceiling tiles, vinyl cove base and mastic, gypsum board and joint compound, and asbestos-cement board, etc.

#### C. ACM Assessment Criteria

The assessment is divided into two categories - the physical assessment and the hazard potential assessment.

#### Physical Assessment

The physical assessment is divided into the following seven categories and describes the material condition at the time of the inspection:

Physical Condition #1 - Damaged or significantly damaged thermal system ACM.
Physical Condition #2 - Damaged friable surfacing ACM.
Physical Condition #3 - Significantly damaged friable surfacing ACM.
Physical Condition #4 - Damaged or significantly damaged miscellaneous ACM.
Physical Condition #5 - ACM with potential for damage.
Physical Condition #6 - ACM with potential for significant damage.
Physical Condition #7 - Any remaining friable ACM or friable suspected ACM.

#### Hazard Assessment

The hazard assessment is a combination of the physical assessment combined with the potential for disturbance (i.e., physical contact, vibration air movement) as follows:

Hazard Rank #1 – Good condition/Low potential for disturbance Hazard Rank #2 – Good condition/ Moderate potential for disturbance Hazard Rank #3 – Good condition/ High potential for disturbance Hazard Rank #4 – Damaged condition/Low potential for disturbance Hazard Rank #5 – Damaged condition/Moderate potential for disturbance Hazard Rank #6 – Damaged condition/High potential for disturbance Hazard Rank #7 – Significantly damaged condition The following is the Assessment Criteria used during the inspection:

- 1. Homogeneous Areas (An area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in size, color and texture and was applied at approximately the same time) were quantified by location and assessed by condition. Materials are listed as friable or non-friable. Note: friable materials are materials that can be crushed and pulverized to dust by hand pressure. A general condition description for suspect materials used in this inspection is as follows:
  - a. <u>Damaged Surfacing ACM</u>: That material which has deterioration, delamination, water damage, lacks cohesion, is blistered, crumbling, gouged, marred heavily, abraded, or in any way has lost its structural integrity over more than 1% but less than 10 % of the total surface area if the damage is evenly distributed or less than 25%, if the damage is localized in one area of the homogeneous area.
  - b. <u>Significantly Damaged ACM</u>: That material which has deterioration, delamination, water damage, lacks cohesion, is blistered, crumbling, gouged, marred heavily, abraded, or in any way has lost its structural integrity over at least 10% of the surface area if the damage is evenly distributed or at least 25% if the damaged is localized.
  - c. <u>Good Condition ACM</u>: ACM with no visible damage or deterioration in less than one percent of the material and/or coverings.
  - d. <u>ACM with potential for damage</u>: Pertains to circumstances in which:
    - i. Friable ACM is in an area regularly used by building occupants, including maintenance workers, currently in intact (good) condition.
    - ii. 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 vibration, air erosion, water damage, changes in building use, changes in O&M practices, changes in occupancy or recurrent damage.

Note: All ACM in good condition is still considered to have a potential for damage, and in certain instances, has the potential for significant damage.

- e. ACM with potential for significant damage: Pertains to circumstances in which:
  - i. Friable ACM is in an area regularly used by building occupants, including maintenance personnel.
  - ii. Indications show that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated, or delaminated due to factors such as vibration, air erosion, water damage, changes in building use, changes in O&M practices, changes in occupancy or re-occurring damage.
  - iii. 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.

#### D. Response Actions – General Recommendations

Specific response actions for each known and assumed ACM located at the Laura Lee Therapeutic Day School are in **Attachment A**. The following are general recommendations for response actions associated with managing ACMs at the school.

- 1. Damaged materials in the school should be repaired, if feasible, or removed to maintain compliance with the AHERA regulation. Damaged ACMs of any quantity listed in the report should be repaired or removed by a Massachusetts licensed Asbestos Contractor following all applicable regulations, in accordance with a work plan design, and final clearance air testing performed in accordance with the AHERA regulations. It is the policy of the Lowell Public Schools to use licensed Asbestos Contractors for all response action work.
- 2. The AHERA regulation states that the response actions chosen for other than small scale/short duration repairs (less than 3 square or linear feet), must be designed and conducted by persons accredited to design and conduct response actions. MADLS Regulation 454 CMR 28.00 requires the services of licensed Project Designers who meet the requirements set forth in 454 CMR 28.00, as well as Massachusetts licensed Asbestos Contractors.
- 3. Damaged ACMs that involve small scale/short duration repairs can only be conducted by 16-hour asbestos-trained personnel or by a licensed Asbestos Contractor. EFI understands that small scale/ short duration projects will not be performed by in house personnel, and that all work will be conducted by an outside licensed Asbestos Contractor.
- 4. Each known and assumed ACM should be monitored for any changes in condition during the sixmonth periodic surveillance, or more frequently.
- 5. If known or suspect ACMs are to be impacted by planned renovation or demolition activities, the ACM must be removed by a Massachusetts licensed Asbestos Contractor. Note that AHERA inspections do not meet the EPA NESHAP and Commonwealth of Massachusetts Department of Environmental Protection (MADEP) requirements for a comprehensive pre-renovation or demolition survey. Prior to any planned renovation or demolition project, all renovation/demolition areas must be thoroughly surveyed to meet the requirements of EPA NESHAP and MADEP 310 CMR 7.15(4) Survey Requirements. LEA Designated Persons should make sure that pre-renovation/demolition surveys are performed in each instance that ACM may be disturbed.

#### E. AHERA Licensing & Training Documentation

The AHERA 3-year Reinspection report for the Laura Lee Therapeutic Day School was performed by the following individuals who have received appropriate training and who are MADLS licensed personnel:

Muchael MCarter

Michael McCarter Senior Project Manager MA Asbestos Inspector # AI 001825

9 VZ

John Vaz Senior Project Manager MA Asbestos Management Planner #AP 900524

#### F. Asbestos Bulk Sampling

Asbestos bulk sampling of suspect ACM was performed for various suspect ACMs not previously identified as ACM in portions of the building included in the AHERA program. The bulk sampling was performed by USEPA-accredited, and MADLS licensed Asbestos Inspector Michael McCarter. A total of 60 bulk samples of suspect ACMs were collected and transported under chain of custody protocol to EMSL Analytical, Inc., of Woburn, Massachusetts, a Massachusetts-licensed laboratory. EMSL is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos fiber analysis, which is administered by the National Institute of Standards and Testing (NIST).

Samples were analyzed with a standard 3-day turnaround time using polarized light microscopy (PLM) in accordance with United States Environmental Protection Agency (USEPA) Method 600/R-93/116. The PLM/DS analytical method is modeled after 40 CFR Part 763, Subpart F, Attachment A: "Interim Method for the Determination of Asbestos in Bulk Insulation Samples." MADEP asbestos regulations define an ACM as any material containing greater than or equal to one percent asbestos. The findings of this report are based upon observations of accessible materials and the analysis of representative bulk samples collected. **Attachment C** contains site plans indicating locations of samples collected and analyzed as part of this reinspection. A copy of the asbestos laboratory reports is presented in **Attachment D**.

Bulk samples representing individual homogenous areas of suspect ACM, (materials that are determined to be uniform in color and texture and installed in the same construction period) were collected in a randomly distributed manner, in accordance with the EPA sampling protocol outlined in 40 CFR 763.

The following suspect ACMs sampled by EFI during the 2024 reinspection were reported by EMSL as containing <u>no detectable concentration of asbestos:</u>

| Material Description                      | Location(s) Sampled  |
|---|--|
|   | Basement - Hall at North Side, Basement – Hall at  |
| Plaster ceiling on wire mesh              | West Area, Basement – Center, Basement – Hall at<br>West Side, Basement – Girls Room   |
| Gray HVAC duct sealant                    | Basement – North Hall Area, Basement – Center  |
| Fiberboard wall panels                    | Basement - West Hall Area  |
| HVAC duct flange gasket                   | Basement - Center  |
| HVAC flex connector                       | Basement - Center  |
| Horsehair plaster base coat on wood lath  | 1 <sup>st</sup> Floor – Hall at North Stair, 1 <sup>st</sup> Floor – Main<br>Entrance, 1 <sup>st</sup> Floor – South Stair, 1 <sup>st</sup> Floor – Classroom<br>32 <sup>nd</sup> Floor Office, 2 <sup>nd</sup> Floor Classroom 4, Attic   |
| Horsehair plaster finish coat             | 1 <sup>st</sup> Floor – Hall at North Stair, 1 <sup>st</sup> Floor – Main<br>Entrance, 1 <sup>st</sup> Floor – South Stair, 1 <sup>st</sup> Floor – Classroom<br>3, 2 <sup>nd</sup> Floor-Office, 2 <sup>nd</sup> Floor-Classroom 4, Attic |
| 2' x 4' fissured ceiling tile             | 1 <sup>st</sup> Floor – Restroom, 2 <sup>nd</sup> Floor - Office   |
| Vinyl cove base adhesive                  | 1 <sup>st</sup> Floor - Restroom   |
| 12" x 12" white floor tile                | 1 <sup>st</sup> Floor - Restroom   |
| 12" x 12" white floor tile mastic, yellow | 1 <sup>st</sup> Floor - Restroom   |

#### Summary of Non-ACMs per 2024 3-Year Reinspection

| Material Description               | Location(s) Sampled   |
|------------------------------------|---|
| Gypsum board                       | 1 <sup>st</sup> Floor – Restroom, 2 <sup>nd</sup> Floor - Teachers Room |
| Joint compound                     | 1 <sup>st</sup> Floor – Restroom, 2 <sup>nd</sup> Floor - Teachers Room |
| Tan sheet flooring                 | 1 <sup>st</sup> Floor – Principals Office                               |
| Tan sheet flooring mastic, yellow  | 1 <sup>st</sup> Floor – Principals Office                               |
| Carpet adhesive on wood, yellow    | 1 <sup>st</sup> Floor – Classroom 2                                     |
| Stainless steel sink undercoating  | 1 <sup>st</sup> Floor – Hall, 2 <sup>nd</sup> Floor - Hall              |
| Exterior door frame caulk, black   | Exterior – Front, Exterior – Left Side                                  |
| Exterior window frame caulk, black | Exterior – Front, Exterior – Left Side                                  |

#### G. ACM Hazard Assessment & Recommended Response Actions

Accessible locations were inspected and assessed to determine the presence and condition of known and assumed ACM. A Summary Table of known and assumed ACMs present at the school, the physical assessments and the recommended response action for each ACM, is presented in **Attachment A.** It should be noted that EFI did not conduct destructive evaluations of the school building to identify suspect ACM. Per USEPA NESHAP and MADEP asbestos regulations, a thorough "path of construction" survey should be conducted prior to any renovation or repair activities that may impact suspect ACM, regardless of the date of installation.

#### H. Cost Estimate and Schedule for Recommended Response Actions

The confirmed and assumed ACMs outlined in the summary table in **Attachment A** that were in good condition at the time of the reinspection must be maintained in place in accordance with the Operations and Maintenance Plan. Estimated costs associated with managing known and assumed ACMs at the school are summarized below.

| Cost Estimate of AHERA Considerations<br>Laura Lee Therapeutic Day School<br>235 Powell Street, Lowell, Massachusetts |                  |  |  |  |  |
|---|------------------|--|--|--|--|
| Training Costs  |                  |  |  |  |  |
| Item  | Approximate Cost |  |  |  |  |
| 2-hour asbestos awareness training (New Hires, within 60 days of hire)  | \$500/person     |  |  |  |  |
| Designated Person Training  | \$250            |  |  |  |  |
| Maintenance Costs   |                  |  |  |  |  |
| Item  | Approximate Cost |  |  |  |  |
| Asbestos labeling (Place/maintain labels adjacent to ACM in routine maintenance areas)                                | \$500            |  |  |  |  |
| 6-month surveillance inspections (Per schedule below)   | \$500/event      |  |  |  |  |
| 3-year reinspection (Per schedule below)  | \$2,000          |  |  |  |  |
| Response Action Costs   |                  |  |  |  |  |
| Item  | Approximate Cost |  |  |  |  |
| No Recommended Response Actions   | -                |  |  |  |  |

A proposed schedule of events between this 3-Year reinspection and the 2027 3-Year reinspection is provided for your use:

| Schedule of AHERA-Related Actions<br>Laura Lee Therapeutic Day School<br>235 Powell Street, Lowell, Massachusetts |                   |  |  |  |  |
|---|-------------------|--|--|--|--|
| Event Completion Date   |                   |  |  |  |  |
| Annual Parental Notification Letter   | September 1, 2024 |  |  |  |  |
| 6 Month Surveillance Inspection   | October 18, 2024  |  |  |  |  |
| 6 Month Surveillance Inspection   | April 18, 2025    |  |  |  |  |
| Annual Parental Notification Letter September 1, 2025   |                   |  |  |  |  |
| 6 Month Surveillance Inspection   | October 18, 2025  |  |  |  |  |
| 6 Month Surveillance Inspection April 18, 2026  |                   |  |  |  |  |
| Annual Parental Notification Letter September 1, 2026   |                   |  |  |  |  |
| 6 Month Surveillance Inspection October 18, 2026  |                   |  |  |  |  |
| 3 Year Reinspection   | April 18, 2027    |  |  |  |  |

ATTACHMENT A

AHERA SUMMARY TABLE

#### AHERA 3 Year Re-Inspection Summary Table Laura Lee Therapeutic Day School Summary Table of Identified and Assumed Asbestos-Containing Building Materials 235 Powell Street, Lowell, MA Date of Inspection: 4/18/2024

| Material Description  | Location    | Quantity | Friability<br>(F/NF) | Sample Results  | Assessment<br>Category | Condition  | Response Actions/<br>Notes  | Recommended<br>Completion<br>Date |
|---|-------------|----------|----------------------|---|------------------------|--|---|-----------------------------------|
| Gray Duct Sealant   | Boiler Room | 30 LF    | NF                   | Positive per<br>Management Plan<br>records. No bulk<br>sampling data<br>available for<br>review.<br>Sampled in 2024.<br>No asbestos<br>detected | -                      | -  |   |                                   |
| Exterior asbestos<br>cement shingles<br>(material added per<br>2024 inspection) | Exterior    | 7,000 SF | NF                   | 15% Chrysotile  | 5                      | Good condition overall<br>with minor cracking.<br>Shingles are intact. | Manage in place in accordance<br>with the Asbestos O&M<br>Program |                                   |

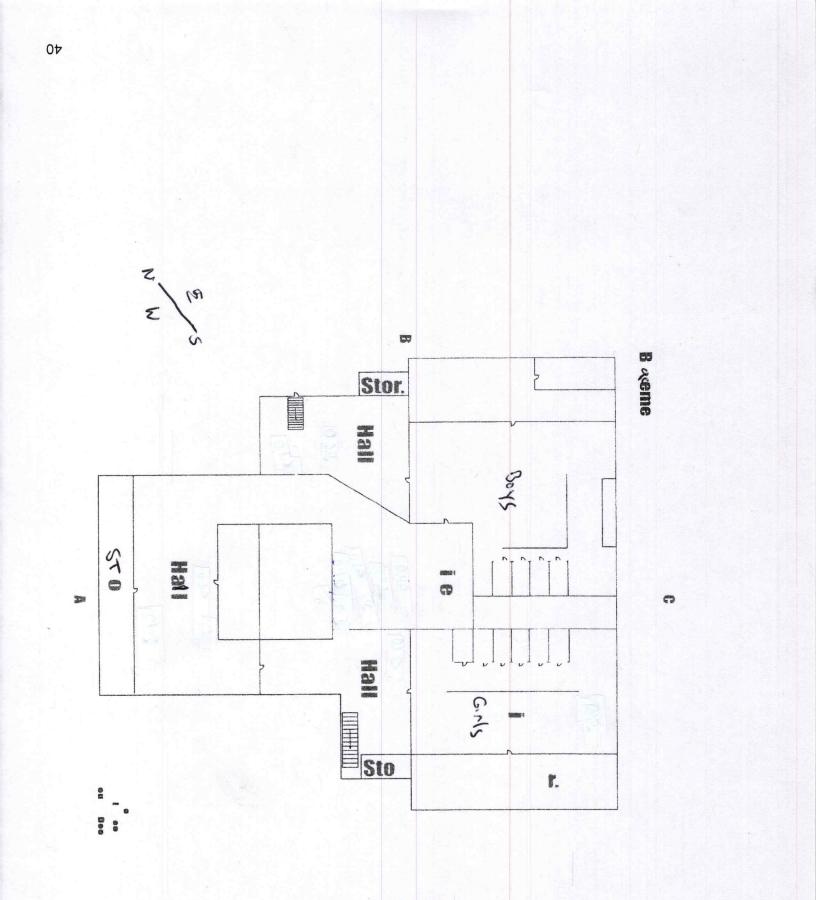
LF = Linear Feet

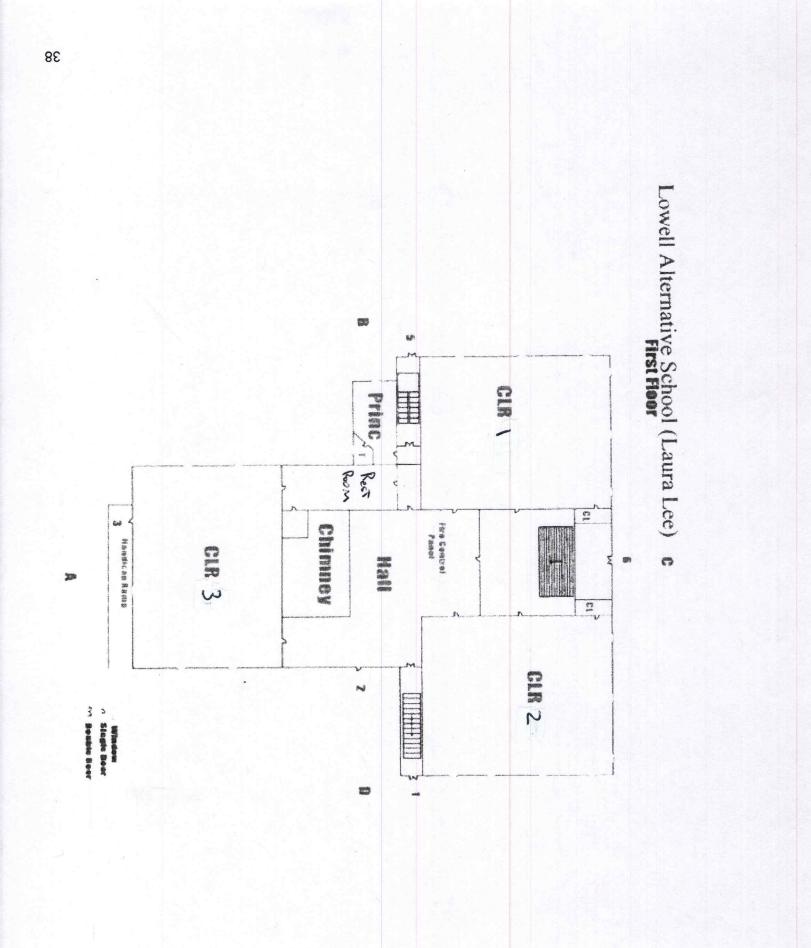
SF = Square Feet

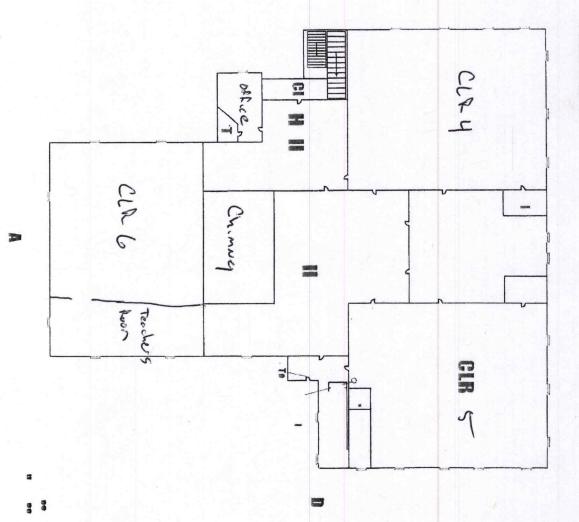
| Physical Assessment Category                                   |
|--|
| 1 – Damaged or Significantly Damaged Thermal System ACM        |
| 2 – Damaged Friable Surfacing ACM                              |
| 3 – Significantly Damaged Surfacing ACM                        |
| 4 – Damaged or Significantly Damaged Friable Miscellaneous ACM |
| 5 – ACM with Potential for Damage                              |
| 6 – ACM with Potential for Significant Damage                  |
| 7 – Any Remaining friable ACM or friable suspect ACM           |

ATTACHMENT B

SITE PLANS

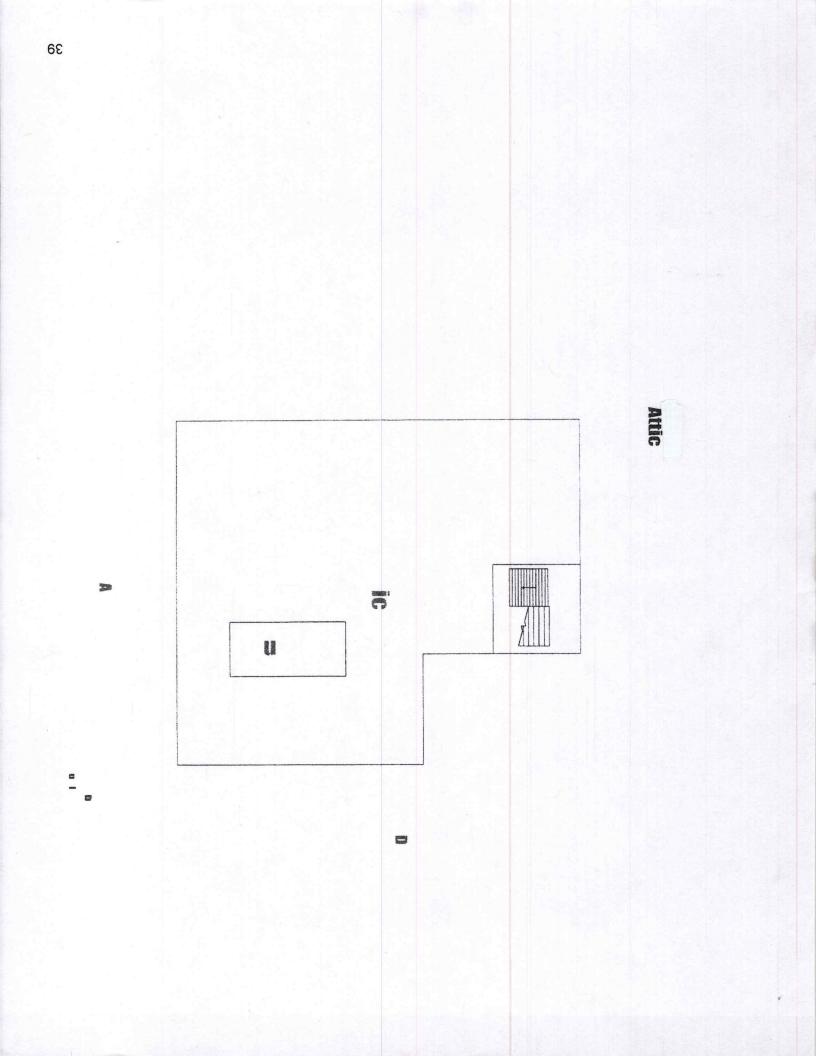






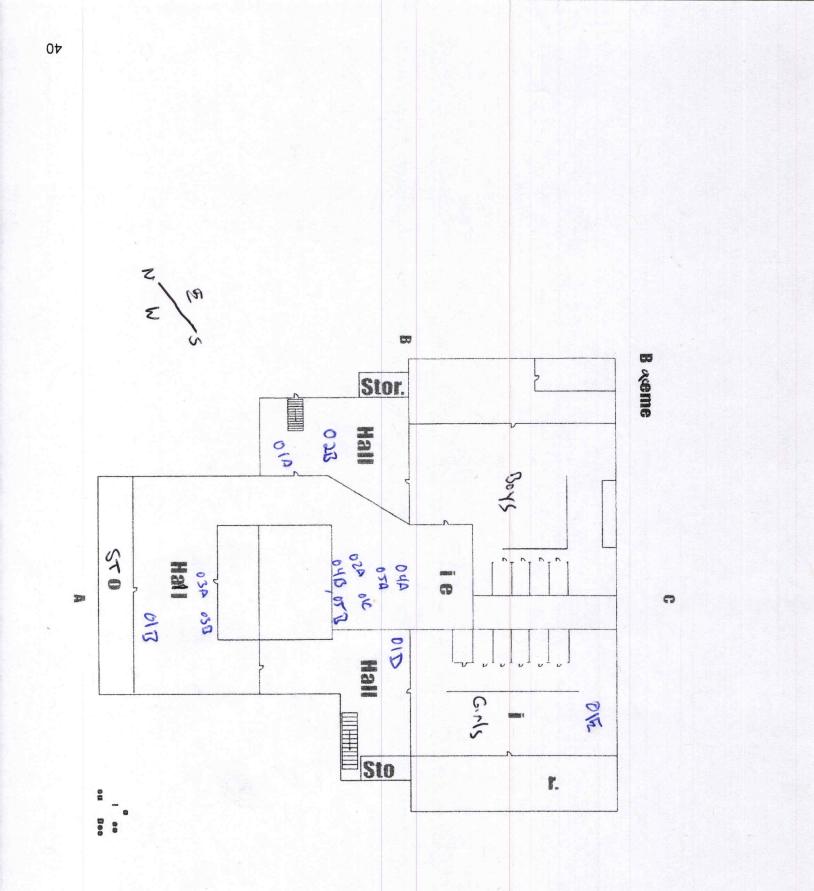


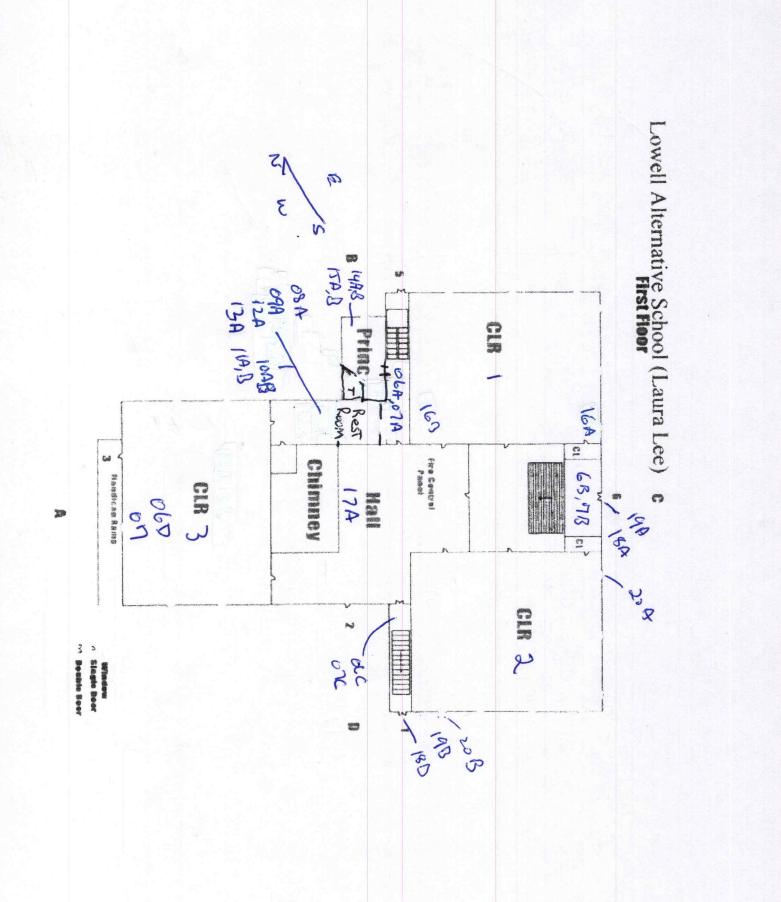
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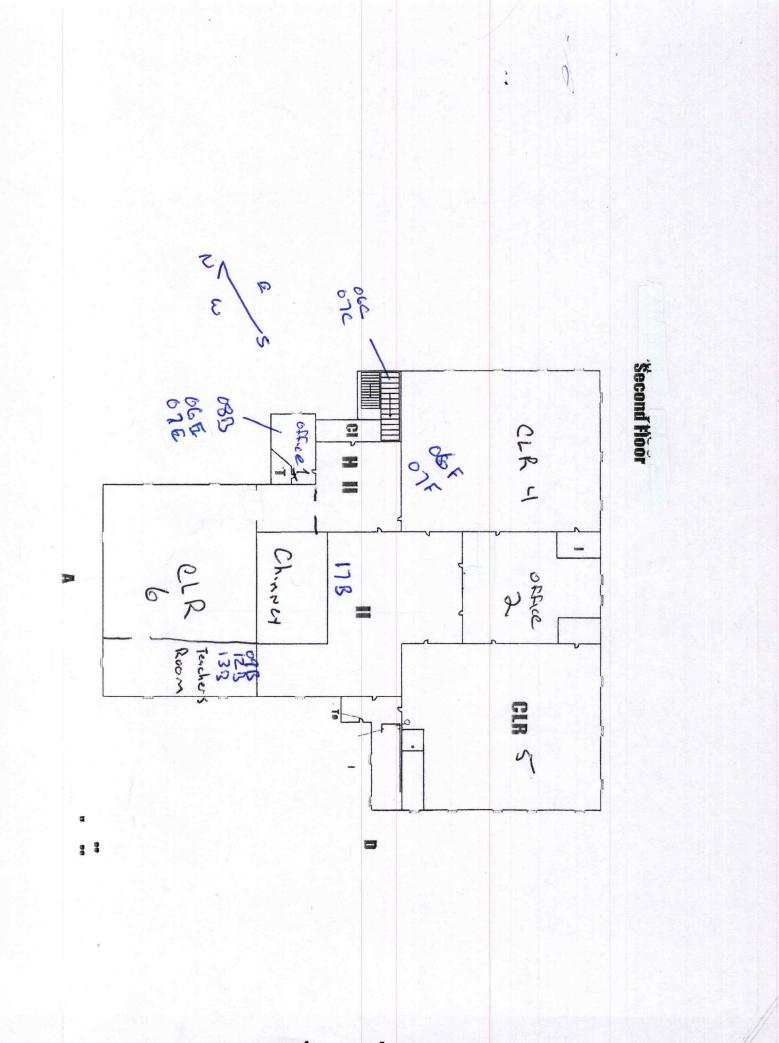


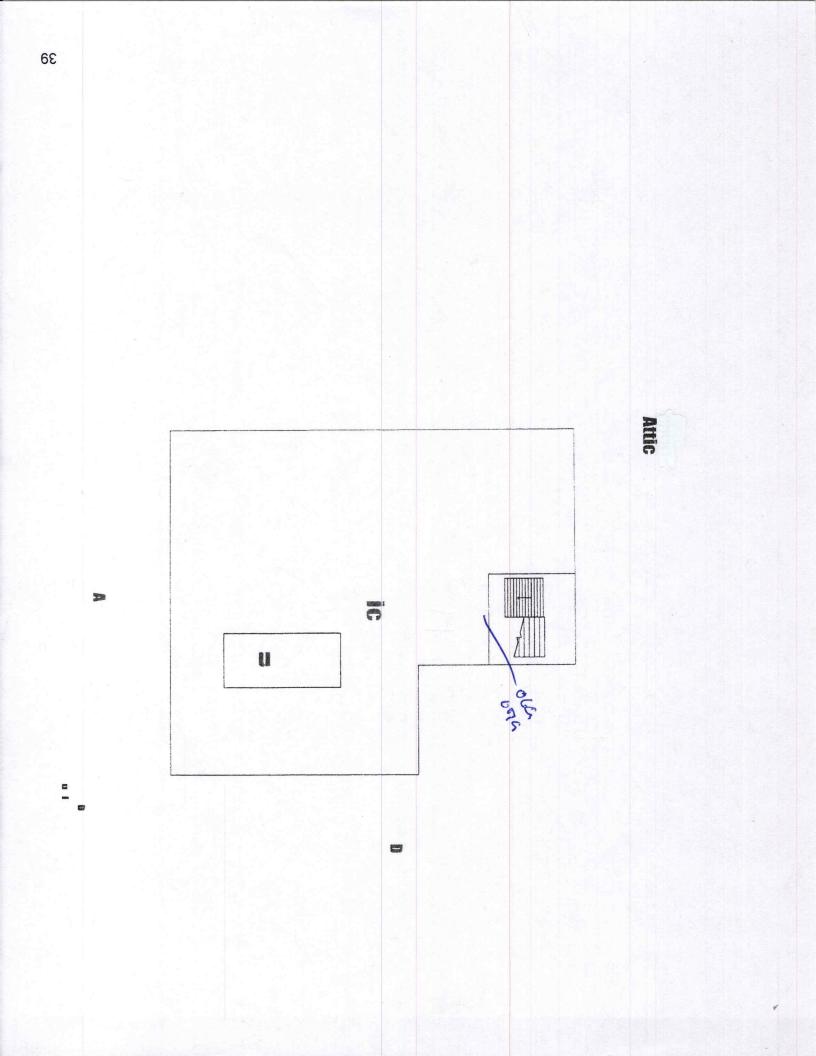
ATTACHMENT C

2024 REINSPECTION ASBESTOS BULK SAMPLE LOCATION PLANS



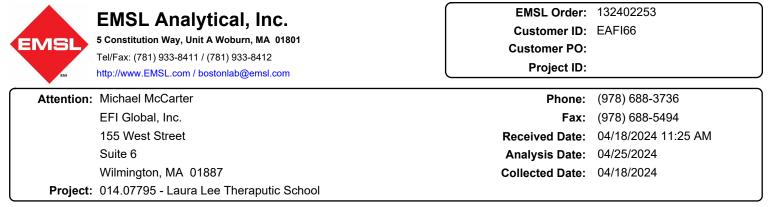






ATTACHMENT D

2024 REINSPECTION ASBESTOS BULK SAMPLE REPORTS



#### Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

|                           |   |                                     | Asbestos      |                          |               |
|---------------------------|---|-------------------------------------|---------------|--------------------------|---------------|
| Sample                    | Description   | Appearance % Fibrous % Non-Fibrous  |               |                          | % Туре        |
| 01A<br>132402253-0001     | Basement - Hall North<br>Side - Plaster Ceiling<br>on Wire Mesh | White<br>Non-Fibrous<br>Homogeneous |               | 100% Non-fibrous (Other) | None Detected |
| 01B<br>132402253-0002     | Basement - West Hall<br>Area - Plaster Ceiling<br>on Wire Mesh  | White<br>Fibrous<br>Homogeneous     | 5% Hair       | 95% Non-fibrous (Other)  | None Detected |
| 01C                       | Basement - Center -<br>Plaster Ceiling on<br>Wire Mesh          | White<br>Fibrous<br>Homogeneous     | 5% Hair       | 95% Non-fibrous (Other)  | None Detected |
| 01D<br>132402253-0004     | Basement - South<br>Hall Area - Plaster<br>Ceiling on Wire Mesh | White<br>Fibrous<br>Homogeneous     | 5% Hair       | 95% Non-fibrous (Other)  | None Detected |
| 01E<br>132402253-0005     | Basement - Girls<br>Room - Plaster<br>Ceiling on Wire Mesh      | White<br>Fibrous<br>Homogeneous     | 2% Hair       | 98% Non-fibrous (Other)  | None Detected |
| 02A<br>132402253-0006     | Basement - North Hall<br>Area - Gray HVAC<br>Duct Sealant       | Gray<br>Non-Fibrous<br>Homogeneous  |               | 100% Non-fibrous (Other) | None Detected |
| 02B<br>132402253-0007     | Basement - Center -<br>Gray HVAC Duct<br>Sealant                | Gray<br>Non-Fibrous<br>Homogeneous  |               | 100% Non-fibrous (Other) | None Detected |
| 03A<br>132402253-0008     | Basement - West Hall<br>Area - Fiberboard<br>Wall Panels        | Tan<br>Fibrous<br>Homogeneous       | 95% Cellulose | 5% Non-fibrous (Other)   | None Detected |
| 03B<br>132402253-0009     | Basement - West Hall<br>Area - Fiberboard<br>Wall Panels        | Tan<br>Fibrous<br>Homogeneous       | 95% Cellulose | 5% Non-fibrous (Other)   | None Detected |
| 04A<br>132402253-0010     | Basement - Center -<br>HVAC Duct Flange<br>Gasket               | Gray<br>Non-Fibrous<br>Homogeneous  |               | 100% Non-fibrous (Other) | None Detected |
| 04B<br>132402253-0011     | Basement - Center -<br>HVAC Duct Flange<br>Gasket               | Gray<br>Non-Fibrous<br>Homogeneous  |               | 100% Non-fibrous (Other) | None Detected |
| 05A<br>132402253-0012     | Basement - Center -<br>HVAC Flex Connector                      | White<br>Fibrous<br>Homogeneous     | 10% Glass     | 90% Non-fibrous (Other)  | None Detected |
| 05B<br>132402253-0013     | Basement - Center -<br>HVAC Flex Connector                      | White<br>Fibrous<br>Homogeneous     | 10% Glass     | 90% Non-fibrous (Other)  | None Detected |
| 06A                       | 1st Floor - Hall at<br>North Stair - Horse                      | White<br>Fibrous                    | 5% Hair       | 95% Non-fibrous (Other)  | None Detected |
| 132402253-0014<br><br>06B | Hair Plaster Base<br>Coat on Wood Lathe<br>1st Floor - Main     | Homogeneous                         | 5% Hair       | 95% Non-fibrous (Other)  | None Detected |
| 132402253-0015            | Entrance - Horse Hair<br>Plaster Base Coat on<br>Wood Lathe     | Fibrous<br>Homogeneous              | 570 Han       |                          | None Delected |



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#### Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

|                       |   | Asbestos                            |                                |                          |                |
|-----------------------|---|-------------------------------------|--------------------------------|--------------------------|----------------|
| Sample                | Description   | Appearance                          | % Fibrous                      | % Non-Fibrous            | % Туре         |
| )6C<br>132402253-0016 | 1st Floor - South Stair<br>- Horse Hair Plaster<br>Base Coat on Wood                    | White<br>Fibrous<br>Homogeneous     | 5% Hair                        | 95% Non-fibrous (Other)  | None Detected  |
| 06D                   | Lathe<br>1st Floor - Classroom  | White                               | 5% Hair                        | 95% Non-fibrous (Other)  | None Detected  |
| 132402253-0017        | 3 - Horse Hair Plaster<br>Base Coat on Wood<br>Lathe                                    | Fibrous<br>Homogeneous              |                                |                          |                |
| 06E                   | 2nd Floor - Office -<br>Horse Hair Plaster  | White                               | 5% Hair                        | 95% Non-fibrous (Other)  | None Detected  |
| 132402253-0018        | Base Coat on Wood<br>Lathe  | Fibrous<br>Homogeneous              |                                |                          |                |
| )6F                   | 2nd Floor -<br>Classroom 4 - Horse  | White<br>Fibrous                    | 5% Hair                        | 95% Non-fibrous (Other)  | None Detected  |
| 132402253-0019        | Hair Plaster Base<br>Coat on Wood Lathe   | Homogeneous                         |                                |                          |                |
| 06G                   | Attic - Attic - Horse<br>Hair Plaster Base  | White<br>Fibrous                    | 5% Hair                        | 95% Non-fibrous (Other)  | None Detected  |
| 32402253-0020         | Coat on Wood Lathe  | Homogeneous                         |                                |                          |                |
| )7A<br>132402253-0021 | 1st Floor - Hall at<br>North Stair - Horse<br>Hair Plaster Finish<br>Coat on Wood Lathe | White<br>Non-Fibrous<br>Homogeneous |                                | 100% Non-fibrous (Other) | None Detected  |
| )7B                   | 1st Floor - Main<br>Entrance - Horse Hair   | White<br>Non-Fibrous                |                                | 100% Non-fibrous (Other) | None Detected  |
| 32402253-0022         | Plaster Finish Coat on<br>Wood Lathe  | Homogeneous                         |                                |                          |                |
| 07C                   | 1st Floor - South Stair<br>- Horse Hair Plaster   | White<br>Non-Fibrous                |                                | 100% Non-fibrous (Other) | None Detected  |
| 32402253-0023         | Finish Coat on Wood<br>Lathe  | Homogeneous                         |                                |                          |                |
| 07D                   | 1st Floor - Classroom<br>3 - Horse Hair Plaster   | White<br>Non-Fibrous                |                                | 100% Non-fibrous (Other) | None Detected  |
| 32402253-0024         | Finish Coat on Wood<br>Lathe  | Homogeneous                         |                                |                          |                |
| )7E                   | 2nd Floor - Office -<br>Horse Hair Plaster  | White<br>Non-Fibrous                |                                | 100% Non-fibrous (Other) | None Detected  |
| 132402253-0025        | Finish Coat on Wood<br>Lathe  | Homogeneous                         |                                |                          |                |
| )7F                   | 2nd Floor -   | White                               |                                | 100% Non-fibrous (Other) | None Detected  |
| 32402253-0026         | Classroom 4 - Horse<br>Hair Plaster Finish<br>Coat on Wood Lathe                        | Non-Fibrous<br>Homogeneous          |                                |                          |                |
| )7G                   | Attic - Attic - Horse<br>Hair Plaster Finish  | White<br>Non-Fibrous                |                                | 100% Non-fibrous (Other) | None Detected  |
| 132402253-0027        | Coat on Wood Lathe  | Homogeneous                         |                                |                          |                |
| 18A                   | 1st Floor - Restroom -<br>2x4 Fissured CG Tile  | Gray<br>Fibrous                     | 50% Cellulose<br>30% Min. Wool | 20% Non-fibrous (Other)  | None Detected  |
| 32402253-0028         |   | Homogeneous                         | 5051 5 11 1                    |                          |                |
| )8B<br> 32402253-0029 | 2nd Floor - Office -<br>2x4 Fissured CG Tile  | Gray<br>Fibrous<br>Homogeneous      | 50% Cellulose<br>30% Min. Wool | 20% Non-fibrous (Other)  | None Detected  |
|                       | 1 at Eleon Destroy  | Homogeneous                         |                                | 1000/ Non filmour (04)   | None Data da J |
| )9A                   | 1st Floor - Restroom -<br>Vinyl Cove Base   | Yellow<br>Non-Fibrous               |                                | 100% Non-fibrous (Other) | None Detected  |
| 132402253-0030<br>09B | Adhesive<br>2nd Floor - Teachers  | Homogeneous<br>Yellow               |                                | 100% Non-fibrous (Other) | None Detected  |
|                       | Room - Vinyl Cove   | Non-Fibrous                         |                                | · · ·                    |                |



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#### Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

|                    |  |                                       | Non-Asbe       | Asbestos                 |                              |
|--------------------|--|---------------------------------------|----------------|--------------------------|------------------------------|
| ample              | Description  | Appearance                            | % Fibrous      | % Non-Fibrous            | % Туре                       |
| A                  | 1st Floor - Restroom -<br>12x12 White Floor                  | White<br>Non-Fibrous                  |                | 100% Non-fibrous (Other) | None Detected                |
| 2402253-0032       | Tile   | Homogeneous                           |                |                          |                              |
| )B                 | 1st Floor - Restroom -<br>12x12 White Floor                  | White<br>Non-Fibrous                  |                | 100% Non-fibrous (Other) | None Detected                |
| 2402253-0033       | Tile   | Homogeneous                           |                |                          |                              |
| A                  | 1st Floor - Restroom -<br>12x12 White Floor<br>Tile - Mastic | Yellow<br>Non-Fibrous                 |                | 100% Non-fibrous (Other) | None Detected                |
| 2402253-0034       |  | Homogeneous                           |                |                          |                              |
| B<br>2402253-0035  | 1st Floor - Restroom -<br>12x12 White Floor<br>Tile - Mastic | Yellow<br>Non-Fibrous<br>Homogeneous  |                | 100% Non-fibrous (Other) | None Detected                |
|                    |  | -                                     | 100/ Callulana |                          | Nana Data da d               |
| 2402253-0036       | 1st Floor - Restroom -<br>Gypsum Board                       | Tan/White<br>Fibrous<br>Homogeneous   | 10% Cellulose  | 90% Non-fibrous (Other)  | None Detected                |
|                    | Ord Flags Taashara   |                                       | 100/ Callulana |                          | Nama Data ata d              |
| 2B<br>2402253-0037 | 2nd Floor - Teachers<br>Room - Gypsum<br>Board               | Tan/White<br>Fibrous<br>Homogeneous   | 10% Cellulose  | 90% Non-fibrous (Other)  | None Detected                |
| 3A                 | 1st Floor - Restroom -                                       | White                                 |                | 100% Non-fibrous (Other) | None Detected                |
|                    | Joint Compound   | Non-Fibrous                           |                |                          |                              |
| 2402253-0038       |  | Homogeneous                           |                |                          |                              |
| 3B                 | 2nd Floor - Teachers<br>Room - Joint                         | White<br>Non-Fibrous                  |                | 100% Non-fibrous (Other) | None Detected                |
| 2402253-0039       | Compound   | Homogeneous                           |                |                          |                              |
| A                  | 1st Floor - Principal -<br>Tan Sheet Flooring                | Brown/White<br>Fibrous                | 40% Cellulose  | 60% Non-fibrous (Other)  | None Detected                |
| 2402253-0040       |  | Homogeneous                           | 4004 0 11 1    |                          |                              |
| B<br>2402253-0041  | 1st Floor - Principal -<br>Tan Sheet Flooring                | Brown/White<br>Fibrous<br>Homogeneous | 40% Cellulose  | 60% Non-fibrous (Other)  | None Detected                |
| 5A                 | 1st Floor - Principal -                                      | Yellow                                |                | 100% Non-fibrous (Other) | None Detected                |
| 2402253-0042       | Tan Sheet Flooring,<br>Yellow Mastic                         | Non-Fibrous<br>Homogeneous            |                |                          | None Delected                |
| БВ                 | 1st Floor - Principal -                                      | Yellow                                |                | 100% Non-fibrous (Other) | None Detected                |
| 2402253-0043       | Tan Sheet Flooring,<br>Yellow Mastic                         | Non-Fibrous<br>Homogeneous            |                |                          |                              |
| 6A                 | 1st Floor - Classroom<br>1 - Carpet Adhesive                 | Yellow<br>Non-Fibrous                 |                | 100% Non-fibrous (Other) | None Detected                |
| 2402253-0044       | on Wood, Yellow  | Homogeneous                           |                |                          |                              |
| βB                 | 1st Floor - Classroom<br>1 - Carpet Adhesive                 | Yellow<br>Non-Fibrous                 |                | 100% Non-fibrous (Other) | None Detected                |
| 2402253-0045       | on Wood, Yellow  | Homogeneous                           |                |                          |                              |
| 7A                 | 1st Floor - Hall -<br>Stainless Steel Sink                   | Gray<br>Non-Fibrous                   | 20% Cellulose  | 80% Non-fibrous (Other)  | None Detected                |
| 2402253-0046       | Undercoating   | Homogeneous                           | 0001 0 11 1    |                          |                              |
| ′B<br>2402253-0047 | 2nd Floor - Hall -<br>Stainless Steel Sink<br>Undercoating   | Gray<br>Non-Fibrous<br>Homogeneous    | 20% Cellulose  | 80% Non-fibrous (Other)  | None Detected                |
|                    |  |                                       |                | 95% Non fibrous (Other)  | 45% Charactile               |
| 2402253-0048       | Exterior - Front -<br>Exterior Cement<br>Shingles            | Gray<br>Fibrous<br>Homogeneous        |                | 85% Non-fibrous (Other)  | 15% Chrysotile               |
| 3B                 | Exterior - Left Side -                                       |                                       |                |                          | Positive Stop (Not Analyzed) |
| 3B<br>2402253-0049 | Exterior - Left Side -<br>Exterior Cement<br>Shingles        |                                       |                |                          | FUSILIVE SLOP (NOL ANALYZED) |
| 9A                 | Exterior - Front -   | Black                                 |                | 100% Non-fibrous (Other) | None Detected                |
| 2402253-0050       | Exterior - Front -<br>Exterior Door Frame<br>Caulk, Black    | Non-Fibrous<br>Homogeneous            |                |                          |                              |



#### Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

|                       |   |                                     | Asbestos  |                          |               |
|-----------------------|---|-------------------------------------|-----------|--------------------------|---------------|
| Sample                | Description   | Appearance                          | % Fibrous | % Non-Fibrous            | % Туре        |
| 19B<br>132402253-0051 | Exterior - Left Side -<br>Exterior Door Frame<br>Caulk, Black   | Black<br>Non-Fibrous<br>Homogeneous |           | 100% Non-fibrous (Other) | None Detected |
| 20A<br>132402253-0052 | Exterior - Front -<br>Exterior Window<br>Frame Caulk, Black     | Black<br>Non-Fibrous<br>Homogeneous |           | 100% Non-fibrous (Other) | None Detected |
| 20B<br>132402253-0053 | Exterior - Left Side -<br>Exterior Window<br>Frame Caulk, Black | Black<br>Non-Fibrous<br>Homogeneous |           | 100% Non-fibrous (Other) | None Detected |

Analyst(s)

Kevin Pine (52)

P.

Steve Grise, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. 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. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-139, VT AL998919, ME LB-0039

Initial report from: 04/25/2024 14:29:28

132402253



BOSTON NORTH 155 West Street | Suite 6 | Wilmington, MA 01887 | PHONE 978.688.3736 | FAX 978.688.5494 | FREE 800.659.1202

#### BULK SAMPLE CHAIN OF CUSTODY FORM

| Report to<br>(Inspector Name): |                                 | Bill To:          | Accounts Payable            |                      |
|--------------------------------|---------------------------------|-------------------|-----------------------------|----------------------|
| Company:                       | EFI Global, Inc.                | Address:          | Same                        |                      |
| Address:                       | 155 West Street                 | City, State, Zip: | Same                        |                      |
|                                | Suite 6                         | Telephone:        | 800-659-1202                |                      |
| City, State, Zip:              | Wilmington, MA 01887            | Email:            | US-EFIGIobal-BostonEm       | viroPC@efiglobal.com |
| Inspector Cell:                | 978-604-7662                    |                   |                             |                      |
|                                | Proje                           | ct Information    |                             |                      |
| Project No./<br>Description:   |                                 |                   |                             |                      |
| Email Report to:               | Michael.mccarter@efiglobal.com; |                   | •                           |                      |
| Alternate:                     |                                 |                   |                             | 1 Destation of       |
|                                | Requested                       | d Turnaround Ti   | me:                         |                      |
| □ RUSH<br>(6hr)                | ☐ 1 day<br>(24hr)               | □ 2 day<br>(48hr) | ☐ 3 day<br>(72hr)           | 🛛 5 day              |
|                                | Media a                         | nd Methodolog     | y                           |                      |
| Type of Analysis:              | EPA Method 600/R-93/116         |                   | Check for<br>Positive Stop: | Х                    |
| Notes:                         |                                 |                   | Date Collected:             | 4-18-24              |

| Sample ID | Type of Material             | Location                 |
|-----------|------------------------------|--------------------------|
| Dia       | planer celling on while mesh | Barevert - Hell war side |
| 013       |                              | - West Hall Are          |
| DIC       |                              | - certer                 |
| 010       |                              | - SOUT IFALL AN          |
| OIR       | ~                            | - Garle Acom             |
| 02A       | Gray Huke DUCT Seelant       | Ratement - North Hall AM |
| 02B       |                              | 1 - Certor               |
| 032       | Fiber Board will pivels      | Basement - War itell pre |
| 039       |                              |                          |

| Total Number of Samples Submitted: 53 |                            |
|---------------------------------------|----------------------------|
| Samplers Name: Michael Micari         | Samplers Signature Multure |
| Relinquished By (Client): 21Mat       | Date: 4- 18-24 Time:       |
| Received By (Lab):                    | Time:                      |
| EMSL-BOS<br>/ X<br>Page 1 Of          | TON APR 1 8 2024           |

132402253



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| Sample ID | Type of Material           | Location                           |
|-----------|----------------------------|------------------------------------|
| 044       | HUNC DUCT Flonge gesket    | Siscerent - Cert                   |
| 048       | J                          |                                    |
| OTH       | Huse flet concert          | -                                  |
| 252       | 1                          |                                    |
| 040       | Herre Hair Alester Ton wow | ling 1 st floor - Hell O Noral STE |
| 063       | /                          | - Man Entrance                     |
| 040       |                            | - Sout shir                        |
| 060       |                            | V - Class Arom 3                   |
| 063       |                            | 2) floor - office                  |
| 06F       |                            | - closs Don 4                      |
| 065       | N                          | ATTIC - ATTIC                      |
| 074       | Hosehar put fingh wat a    | we have 1st floor - Hau ONNO       |
| 070       | (                          | - Main Entra                       |
| 070       |                            | South Ster                         |
| 675       |                            | J - Close por 3                    |
| DTE       |                            | 2) flat - office                   |
| OTE       |                            | - Classfrony                       |
| 076       | 7                          | ATTEC - ATTEC                      |
| OSR       | 2×4 fissured of the        | 155 floor - Pert Pour              |
| 083       | 1                          | 29 float - Office                  |
| DGA       | Viryl love Dase Alloside   | 2 IST Flow - REST PLON             |
| 093       | 1                          | 20 flow - Toachers Pm              |
| 100       | 12x12 where flastle.       | 14T FLOOT - Perindung              |
| 103       | -                          |                                    |
| IP        | - WAST                     | ·c -                               |
| 113       | 1 - 1                      | J - J                              |

Project Number/Description 014\_07795

Laura La Resopent. 1

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132402253



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| Sample ID | Type of Material               | Location                    |
|-----------|--------------------------------|-----------------------------|
| 120       | Gypson Doan                    | 150 floor - fest fam        |
| 123       | (° )                           | and flow - Teachers an      |
| 130       | Joint Compand                  | 15TSlour - lestroum         |
| 130       | 1                              | 2) floor - teachers poon    |
| IYA       | TAN SLEET flowing              | 1ST Floor - principal       |
| 143       | 1                              | 1 - 1                       |
| (SA       | MAST-C, Yellow                 | - L                         |
| 153       |                                | - 1                         |
| 169       | Carpet Allesive on wood, y     | ellas Ist floor - Claspoon- |
| 160       | 1                              | 1 - 1                       |
| 17+       | Stainloss steel side unbroatin | K IST-Flew Hell             |
| 179       |                                | ) 2) floor - 1/all          |
| 18A       | Exercit ceners shingles        | EXTURN - Front              |
| 188       | 3                              | 1 - helt sile               |
| 192       | Extrat Dow Free cally place    | - front                     |
| 123       | 1                              | - let sile                  |
| 200       | parer window frome calle,      | Yach - Front                |
| 200       | 1                              | J - lift sile               |
|           |                                |                             |
|           |                                |                             |
|           |                                |                             |
|           |                                |                             |
|           |                                |                             |
|           |                                |                             |
|           |                                |                             |
|           |                                |                             |
|           |                                |                             |

Project Number/Description 004.07795

3 of 3 Page REC'D. EMSL-BOSTON APR 1 8 2024

Laura Lee Derapeutic

ATTACHMENT E

LICENSES AND TRAINING CERTIFICATES OF ASBESTOS INSPECTOR & MANAGEMENT PLANNER





### This is to certify that

## Michael L McCarter

7 Millstone Road, Windham, NH 03087 MA DLS Asbestos Inspector License# AI001825



has completed requisite training by Video Conference, and has passed an examination for reaccreditation as:

# Asbestos Inspector Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

**Course Location** 

Zoom Video Conference Institute for Environmental Education 16 Upton Drive Wilmington, MA 01887

April 21, 2023

Course Dates

23-4804-106-219102

**Certificate Number** 

April 21, 2023

**Examination Date** 

April 21, 2024

**Expiration Date** 

**Training Director** 

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

www.ieetrains.com

## **INSTITUTE FOR ENVIRONMENTAL EDUCATION**





### This is to certify that

John A. Vaz 14 Johnson Terrace, Rockland, MA 02370



### has completed the requisite training, and has passed an examination for accreditation as:

## Asbestos Management Planner

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

Course Location Institute for Environmental Education 16 Upton Drive Wilmington, MA 01887

March 14-15, 2024

Course Dates 24-5258-103-233848

24-3230-103-233040

Certificate Number

March 15, 2024

**Examination Date** 

March 15, 2025

**Expiration Date** 

athon 9

**Training Director** 

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