



Hazardous Building Materials Survey Report

North Stratfield
Elementary School

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BL Companies
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EXECUTIVE SUMMARY

This report presents the results of a survey for hazardous building materials conducted at the North Stratford Elementary School located at 190 Putting Green Road in Fairfield, Connecticut. The survey was conducted to evaluate existing building materials which may be subject to disturbance during the planned renovation project. Woodard & Curran performed the initial survey on December 16, 2023, with additional survey activities conducted between December 26, 2023 and January 23, 2024 to evaluate the type, location and quantity of asbestos-containing building materials (ACBM), lead-based paint (LBP), and suspect polychlorinated biphenyl (PCB) containing building materials that may be present within or on the building components scheduled for renovations.

These results of the survey are summarized below:

- Representative suspect asbestos-containing materials likely to be disturbed by proposed building renovations were visually inspected and sampled throughout the building and on the roof. Materials observed and considered suspect for asbestos included wallboard and associated joint compound, fiberboard, ceiling tiles, fire caulk, transite board, duct sealer, insulation cover, pipe fitting insulation, roof drain elbow insulation, pipe sealant, frame sealant, flooring components, column joints, cement joints, mortar, door caulk, roll roofing and associated materials, roof flashings, asphalt shingles, pitch box cement, caulking on roofing components (exhaust fans, skylights, etc.), counterflashing caulking and seam sealer. Analytical results reported asbestos containing building materials in the following within the scope of the survey:
 - Roofing materials (1,400 square feet):
 - Roof Edge Flashing
 - Edge Flashing Cement
 - Black Caulking on Edge Flashing
 - Interior components:
 - Hallway by Room #2 Transite board (10 square feet)
 - Hallway by Cafeteria Gray Mudded Pipe Fitting Insulation (25 linear feet)
 - Room 20 Roof Drain Elbow Insulation (3 linear feet)
- The results of the lead paint survey identified lead above instrument detection limits on the majority of surfaces included in the survey. However, all surfaces were reported with lead levels < 1.0 mg/cm². Lead was not reported at levels > 1.0 mg/cm² in the coatings included in the survey.
- Suspect PCB-containing building materials including caulking, sealants, and painted masonry were observed at various interior and exterior locations throughout the building. These materials included paint on CMU block walls throughout the building, paint on structural steel components throughout the building, caulking at the main entry vestibule windows and doors, caulking at interior hallway windows, caulking at interior partition doors including the doors to the electrical room, and caulking at ventilation louvers on the roof top penthouses. The design team has elected to manage suspect materials disturbed during the renovation as an assumed PCB Bulk Product Waste in accordance with 40 CFR 761.62 and therefore, representative samples were not submitted

for laboratory analysis. Based on the reported dates of construction for the roof (1996/2000), and ventilation system (1995/1996) these materials were not considered to be suspect for PCBs.

The survey activities were limited to those areas identified as being included in the planned renovations as presented on the 95% Construction Documents by BL Companies dated September 29, 2023 (the 95% Construction Documents). Certain inaccessible areas were not evaluated during the survey activities. These areas include but are not necessarily limited to potential materials beneath portions of the foundation slab, the interior of CMU block walls (potential vermiculite insulation), or the potential presence of mineral core/asbestos cores in doors throughout the building.

1. INTRODUCTION

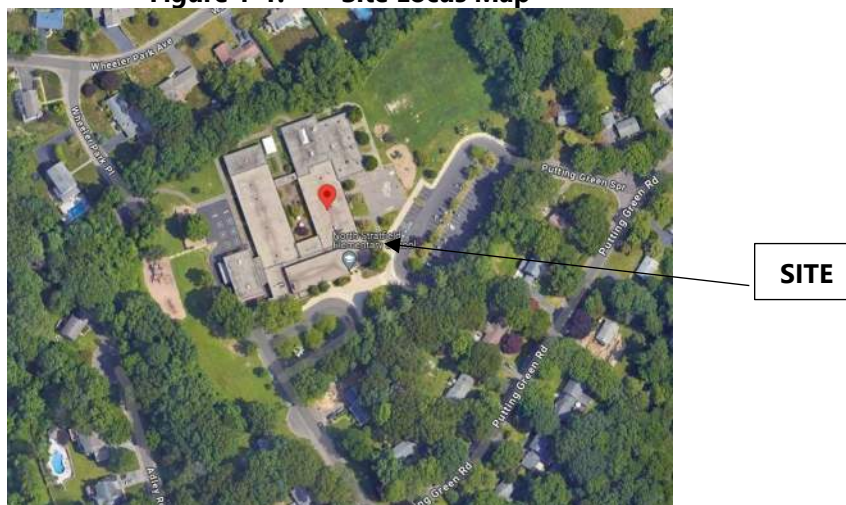
Woodard & Curran conducted the initial survey to evaluate the type, location and approximate quantity of ACBM, LBP, and suspect PCB-containing building materials that may be disturbed during the upcoming renovation at the North Stratford Elementary School located at 190 Putting Green Road in Fairfield, Connecticut.

Based on the 95% Construction Documents, it is our understanding that the renovations are anticipated to include the removal and replacement of certain HVAC equipment on the roof, creation of new roof penetrations and structural supports for the installation of new HVAC and other equipment, removal and replacement of portions of ventilation ductwork, demolition of limited interior walls (between classrooms) and partition doors, replacement/renovations to the main entry vestibule area, and replacement of ceilings throughout the majority of the building.

North Stratfield Elementary School was originally constructed in 1961 with significant additions to the building added in 1996 and 2000. Based on information provided by the design team, ventilation ductwork throughout the school building was replaced in 1995 and 1996. Based on discussions with school maintenance personnel during the survey, the roof of the building was removed do the decking and replaced in 1996 with a small section added in 2000 for a newly constructed storage room.

A Site Locus Map is provided as Figure 1-1 below.

Figure 1-1: Site Locus Map



Woodard & Curran conducted the hazardous building materials survey in support of the proposed project to renovate the elementary school. Various federal and state regulations require the Owner or Operator of facilities which are scheduled to be renovated to identify existing hazardous materials prior to renovation. These regulations are intended to ensure that existing hazardous materials are properly removed, handled, packaged and disposed of prior to, or as part of the renovation process.

Based on the original construction date (1961), products containing certain hazardous materials such as ACBM, LBP, PCBs, or other hazardous materials may have been used as part of the standard construction practices, or during repair or renovation activities throughout the lifespan of the building. No information

has been provided regarding previous renovation or abatement projects that would have included hazardous building materials.

Woodard & Curran conducted the hazardous building material survey described in this report in support of the proposed renovation project. For the survey, Woodard & Curran subcontracted the field activities related to ACBM and LBP to EnviroMed Services of Meriden, Connecticut (EnviroMed).

This report includes a description of the hazardous materials survey findings, sample results, limitations, and regulatory considerations of these findings.

2. BUILDING SURVEY

2.1 Survey Scope

The objective of the hazardous building materials survey was to visually inspect and document the different types of suspect hazardous building materials subject to potential disturbance during renovation of the North Stratfield Elementary School. Woodard & Curran performed the survey between December 16, 2023 and January 23, 2024.

Based on the planned scope of the renovations, the majority of the survey activities were focused on accessible materials in the common areas of the school, in overhead areas, and on the roof. Intrusive techniques were used to identify existing hazardous materials that may be located beneath roofing materials or otherwise hidden from view in those areas identified as to be impacted during the planned renovations and as approved by the project team prior to mobilization. In these areas, the survey activities included documentation of suspect hazardous building materials observed and the collection of representative samples of the materials.

2.2 Building Features

A summary of the building construction features relevant to the hazardous materials survey is presented below.

The original building and the additions appear to be constructed on concrete floor slabs at grade. The perimeter walls are CMU on the interior side of the walls with brick veneer finishes on the exterior. Building perimeter windows were of aluminum frame construction set into the surrounding brick façade.

Structural components appear to include bar joists located above ceilings and below the metal decking (no fireproofing observed on decking or structural steel components). Interior finishes include suspended acoustical ceiling tiles, gypsum board wall finishes, CMU wall finishes, ceramic tile wall and floor finishes in bathrooms, and vinyl floor finishes. Specialty spaces within the school include the gym with associated equipment storage area, the Library Media Center, the multi-purpose room including stage, the kitchen, the boiler room, and the main office area. The remainder of the interior spaces include classrooms as well as bathrooms and various storage spaces / closets.

3. ASBESTOS-CONTAINING MATERIALS

The asbestos inspection was performed using guidelines established by the EPA Guidance for Controlling Asbestos-Containing Materials in Buildings (EPA 5605-85/024), EPA AHERA: 40 CFR 763, and OSHA: 1926.1101. EnviroMed conducted visual inspections of accessible areas to identify homogeneous areas of suspect ACBM in building areas scheduled for renovation activities. Suspect materials were assessed as potential ACBM, where they were observed. Locations and types of suspect ACBM were noted. Limited invasive investigations were conducted behind or beneath existing finishes in areas where such activities would be anticipated as part of the renovation project including roof test cuts to the asphalt decking. Summary reports of the asbestos survey methods by areas of the building and results along with the locations of the samples collected is presented in Appendix A.

Materials are grouped into homogeneous areas for the purpose of sampling to evaluate asbestos content. Homogeneous areas are those that contain suspect ACBM that is uniform in application, texture, and color, and which visually appear identical in every other respect. Materials installed at different times are treated as different homogeneous sampling areas (if this information is known). Bulk samples of observed suspect ACBM were collected from randomly chosen representative locations in a manner to minimize damage to building finishes.

Luis Santiago (license #880) and Arianna Kehoe (license #1175) of EnviroMed Services conducted the survey and collected samples of roof components during the survey on December 16. Additional survey activities for interior components were conducted between December 27-28, 2023 by Dominick Fiore (license #299) and Leonardo Abreu (license #1092).

3.1 Analytical Methods

Samples collected as part of the inspection were transported to EnviroMed's laboratory in Meriden, Connecticut for analysis (CT DPH approved environmental laboratory, PH-0571). Samples were analyzed via Polarized Light Microscopy (PLM) methods in accordance with the United States Environmental Protection Agency (EPA) Methods 600/R-93/116 and 600/M4-82-020. The analytical results are presented with the survey reports in Appendix A.

3.2 Inspection Summary

Representative suspect ACBM was inspected and sampled in accessible portions of the school and in selected inaccessible areas through targeted intrusive/destructive methods. Materials observed and considered suspect for asbestos included wallboard and associated joint compound, fiberboard, ceiling tiles, fire caulk, transite board, duct sealer, insulation cover, pipe fitting insulation, roof drain elbow insulation, pipe sealant, frame sealant, flooring components, column joints, cement joints, mortar, door caulk, roll roofing and associated materials, roof flashings, pitch box cement, caulking on roofing components (ventilation louvers, etc.), counterflashing caulking and seam sealer.

The primary focus of the inspections was on roofing materials, ceiling types, wall types, and materials above ceilings that would be disturbed by planned HVAC renovations. The second focus of the inspection was on materials in the main entrance area where renovation is also planned.

A total of 203 samples were collected and submitted for asbestos analysis. EPA, OSHA and State of Connecticut regulations define an ACM as any building material containing greater than 1% asbestos by an appropriate analytical method. A summary of each of the samples collected is provided Appendix A by sample ID number. Asbestos was not detected in materials included in the survey.

The survey focused on those areas designated to be disturbed based on the 95% Construction Documents throughout the interior portions of the school and the roof. Suspect materials from each of these areas were observed and representative samples collected.

3.3 Sampling Results

The following materials were identified as ABCM during the survey:

- Roofing materials (1,400 square feet [SF]):
 - Roof Edge Flashing
 - Edge Flashing Cement
 - Black Caulking on Edge Flashing
- Interior components:
 - Transite Board (10 SF) – above lockers in hallway by Room #2;
 - Mudded Roof Drain Insulation (3 SF) – observed in Room 20; however, more roof drain insulation is presumed to be present in chases; and
 - Mudded Pipe Fitting Insulation (25 linear feet [LF]) – observed in hallway by Cafeteria; however, all pipe fitting insulation to be disturbed should be managed as ACM.

4. LEAD-BASED PAINT

EnviroMed, as a sub-consultant to Woodard & Curran, conducted a limited inspection for lead-based paints and coatings at the site. The inspection included those paints that appeared to be most prevalent within construction areas scheduled to be disturbed during upcoming renovations as indicated on the 95% Construction Documents with a particular focus on structural steel and interior walls in the school. The lead paint inspection was conducted using an x-ray fluorescence (XRF) analyzer (Viken direct read pb200i)). The XRF analyzer uses a radioactive source to excite the electrons of lead atoms (if present) in the sampled paints. When the radiation is halted, the lead atom electrons return to their normal state of activity by releasing x-rays of a characteristic frequency. This x-ray activity is detected and measured by the XRF analyzer. The results are converted to milligrams lead per square centimeter of sampled surface area (mg/cm^2).

The XRF testing identified lead above instrument detection limits on the majority of surfaces included in the survey. However, all of the surfaces were reported with lead levels below the State of Connecticut Lead Regulations level of $1.0 \text{ mg}/\text{cm}^2$.

Additional information regarding the lead paint inspection, including a summary table of the results, is included in Appendix B.

5. POLYCHLORINATED BIPHENYLS

Woodard & Curran's survey included the documentation of suspect PCB-containing building materials from accessible caulking, sealants, and paints observed in portions of the school to be included in the renovations.

A summary of suspect PCB-containing building materials observed during the survey is provided by area/material type below.

- Main Entry Vestibule Area: Main entry doors consisted of metal framed doors set into brick walls. Additional construction features within this area include doors into the cafeteria, and curtain wall type window and door partitions separating the office space from the hallway. Suspect PCB-containing materials observed included:
 - Main Door Frame Caulking – a bead of black, soft, flexible, tacky caulking was observed on the exterior frame to brick joints on the main doors.
 - Main Door Glazing Sealants – black soft, flexible silicone like material was observed on the interior frame of the vestibule. Also foam materials between the glass and frames above and between the doors were pre-formed gasket materials and not considered to be suspect for PCBs. Glazing sealants were observed on the windows within the doors; however, the materials were inaccessible due to plexiglass having been installed over the windows.
 - Office Windows and Doors – no caulking or glazing sealants were observed.
- CMU Block Walls – Walls throughout the school were primarily painted CMU block (brick walls were located in the main entry area). CMU walls were painted yellow, white or off-white. Multiple layers of paint (some of differing colors) were observed in some areas. At the majority of locations observed, paint had been present on the walls up to the drop ceiling with bare CMU above (the upper 8 to 10 inches of wall). In some locations, the paint was observed above the drop ceiling.
- Structural Steel and Metal Decking – Structural steel cross beams and the bottom side of metal roof decking were coated with red paint.
- Electrical Room Door – grey, soft, flexible caulking over black, soft, flexible caulking was observed between the metal door frame and brick wall.



Paint on CMU Walls



Painted Steel and Roof Decking



Electrical Room Door Caulking

- **Rooftop Ventilation Louver Caulking (100 LF)** – caulking was observed along the metal louver frame to brick façade joints on the roof top penthouse structures. A total of 8 louvers were observed and are designated for removal as part of the project.



Based on the limited scope of work associated with the above materials, the design team has decided to manage those portions of the above materials disturbed by the planned renovations as an assumed PCB Bulk Product Waste in accordance with 40 CFR Interior 761.62 (i.e., assumed to contain PCBs ≥ 50 ppm for removal and disposal purposes). During the survey, representative samples of the above materials were collected; however, they have not been submitted for laboratory analysis and are currently being held in our dedicated sample freezer. These samples may be held for a period of up to one year to allow for future analysis if the project team reevaluates the decision to assume that PCBs are present in the materials.

In addition to the above, the following materials were observed but not considered to be suspect PCB-containing building materials based on the reported renovation history of the school.

- Roofing Materials – Caulking sealants were observed at penetration points and flashing on the roof. Based on information provided by BL Companies and the Fairfield Public Schools, the existing roofing was installed in 1996 or 2000 and are not considered to be suspect for PCBs.
- Ventilation Ductwork Sealants – A grey, hard, sealant was observed on the metal to metal joints in the Area A Hallway. Based on information provided by BL Companies, ductwork was installed in the 1990s and are not considered suspect for PCBs.

A summary table of the suspect PCB-containing building materials observed and site plans depicting their general locations are provided in Appendix C.

6. REGULATORY CONSIDERATIONS

6.1 Asbestos

ACBMs were identified during this survey. The identified ACBMs include transite panels above lockers, mudded roof drain and pipe fitting insulation, edge roof flashing and associated cement/caulking. Asbestos is regulated by state and federal authorities having jurisdiction including but not limited to OSHA, EPA, and CT DPH. Based on our survey findings, the following potential next steps are proposed for consideration:

- A CT DPH licensed Asbestos Abatement Project Designer must prepare technical specifications for removal of any ACBM that may be disturbed by any renovation activities at the site as required by EPA 40 CFR Part 763 (ASHERA).
- A licensed asbestos contractor shall remove any identified ACBM from the facility prior to the start of renovation activities that may disturb the materials in accordance with federal, state and local regulations.
- The owner/operator should review this report as plans are developed to confirm which identified hazardous materials are likely to be disturbed as part of the project. The design team should evaluate if any additional inspection is necessary, as additional ACBM may be present in previously inaccessible areas such as within mechanical and electrical components, buried areas, chases, shafts, foundation walls, floor drains, etc. If additional suspect materials are encountered during facility renovation or demolition activities, then precautions should be taken to prevent the disturbance of the suspect material(s) until appropriate bulk sampling and laboratory analysis is performed to evaluate the material's asbestos content.
- The Fairfield Public School system should update the applicable asbestos management plans required by the EPA ASHERA regulations (40 CFR Part 763) to reflect the additional ACBMs that have been identified as a result of this inspection.

6.2 Lead-Based Paint

Renovation activities that disturb lead-based paints must be performed in accordance with OSHA regulation 29 CFR 1926.62 (Lead in Construction), which contains requirements for protecting workers from lead exposure. For the purposes of OSHA compliance, any measurable lead in paint could pose a health hazard to workers involved in removal of lead painted components where dust is generated, regardless of the measured lead concentrations in the paints. The standard requires that an initial exposure assessment be conducted whenever employee exposure to lead is possible. The standard also requires specified steps to be taken by the employer to ensure that employees are not exposed to elevated concentrations of lead until the exposure assessments have been completed. In some cases, OSHA would require personal air monitoring to evaluate the level of respiratory protection and medical monitoring for workers involved in such work.

The EPA also regulates the disturbance of paints that contain lead in buildings where children under the age of six years are occupants. Contractors who conduct renovation, repair or painting (RRP) activities in such buildings must have training regarding the EPA's requirements for inspections, work practices, engineering controls, occupant notifications, etc. related to activities that disturb paints containing lead.

The Connecticut Department of Environmental Protection has determined that, when results of a comprehensive evaluation for lead in paint is conducted using an XRF analyzer, and all results indicate lead concentrations below 1.0 mg/cm², then the waste from such painted building components is not a hazardous waste due to leachable lead and no further waste characterization for leachable lead is required. As presented in Appendix C, results from testing reported lead at concentrations < 1 mg/cm².

6.3 PCBs

PCB-containing building materials are regulated under the federal PCB regulations at 40 CFR 761 based on the concentrations of PCBs in the materials. A summary of the three categories of materials based on total PCB concentration is as follows:

- PCBs ≥ 50 ppm – Certain suspect materials designated for removal have been assumed by the design team to contain PCBs ≥ 50 ppm for removal and disposal purposes. These include: caulking sealants at the main entry vestibule, paints on CMU block walls, paints on structural steel and metal roof decking, caulking associated with various doors to be removed, and caulking at louver frames.

Materials assumed to contain PCBs ≥ 50 ppm are to be managed as PCB bulk product waste and disposal as per 40 CFR 761.62 and as a State of Connecticut Regulated Waste (CR01). In addition, if PCBs were released to other building materials from ≥ 50 ppm materials, then these materials could be regulated under 40 CFR 761.62 or 40 CFR 761.61, depending on removal methods and timing.

- PCBs > 1 and < 50 ppm – Under the federal PCB regulations, Excluded PCB Products are those materials containing PCBs at concentrations > 1 ppm and < 50 ppm that are not a result of a spill, were contaminated during the manufacturing process, and were legally used and distributed in commerce prior to October 1, 1984. The removal and off-site disposal of these materials is not required to be conducted in accordance with the federal PCB regulations; however, it is required to dispose of the materials at their as found concentrations and the presence of PCBs at concentrations < 50 ppm is to be identified on the waste profiles for the selected facilities. The State of Connecticut regulates these materials for removal and off-site disposal based on the presence of PCBs > 1 ppm and requires that surrounding substrates be evaluated following removal to verify that residual PCBs do not remain. Materials containing PCBs at concentrations > 1 and < 50 ppm have not been identified at the North Stratfield Elementary School.
- Non-PCB Containing Materials – Suspect materials determined to be non-detect for PCBs or with PCBs ≤ 1 ppm are not subject to PCB waste management and disposal requirements under 40 CFR 761 or the CTDEEP. These include materials installed after the federal ban on the use of PCBs in these types of application including ventilation ductwork sealants and roofing sealants at North Stratfield.

As indicated in Section 5, the design team has elected to manage those suspect PCB-containing building materials designated for removal under the assumption that the materials contain PCBs at concentrations ≥ 50 ppm without analytical testing. Based on this assumption, all suspect PCB-containing building materials and building materials directly adjacent to the suspect materials are to be managed for removal and off-site disposal as an assumed PCB Bulk Product Waste. A summary of the remedial approach for each item is presented in Appendix C.

6.4 Other Hazardous Materials

All fluorescent light tubes, other universal waste and materials requiring special disposal should be handled, packaged and disposed of in accordance with Regulations of Connecticut State Agencies (RCSA) Section 22a – 449 (c) - 113 as well as other applicable federal, state and local requirements. Refrigerants should be reclaimed by contractors appropriately trained and certified to conduct such activities. Petroleum products, cleaning supplies, and other materials that may be disposed of during the renovations should be disposed of in accordance with applicable regulatory requirements.

7. LIMITATIONS AND REMAINING ACTIVITIES

The services provided were conducted in a manner consistent with standard industry practices for hazardous materials surveys, recognizing that even the most comprehensive inspection may not detect all suspect materials in the building. Observations documented in this report were made under the conditions existing at the time of the surveys. Limiting factors include accessibility, visibility, scope of work, and safety. Sampling was not performed on building components that would impact structural, mechanical, life safety, or electrical systems. Note subsurface investigations beneath the foundation slab of the building and on the exterior side of the foundation walls were not included in the scope of this survey based on the information provided which indicated that such materials would not be disturbed during the renovations.

The sampled materials are considered representative of accessible suspect hazardous building materials observed at the facility within construction areas scheduled to be disturbed during upcoming renovations as indicated on the 95% Construction Documents. Reasonable measures were undertaken to detect the presence of suspect hazardous materials within the survey areas. The evaluations, assessments, and findings presented herein are based solely on the observations made during the surveys. While the samples collected are considered representative of the suspect hazardous building materials observed during the survey activities, undetected variations in chemical concentrations may occur in the media at un-sampled locations, and other suspect hazardous materials may be present at locations that may not become accessible until such time that additional building material removal activities are performed. In the event that any conditions differing from those described herein are identified at a later time, Woodard & Curran requests the opportunity to review such differences and modify, as appropriate, the assessments and conclusions given in this report.

As described above, the survey activities were limited to accessible areas of the building and to limited intrusive sampling activities within inaccessible areas planned to be included in the renovations (e.g., roof test cuts). No intrusive survey or sampling activities were performed at locations not scheduled to be disturbed during upcoming renovations as indicated on the 95% Construction Documents. Estimated quantities of materials provided in this report are based on areas scheduled to be disturbed as shown on 95% Construction Documents, and these quantities are subject to change after plans are finalized. Additional quantities of identified hazardous materials may be present at locations that were excluded from the survey and/or at locations concealed by existing finish materials.

If the revisions are made to the planned scope of the renovations, additional/follow up survey activities may be required to evaluate the presence/absence of suspect hazardous building materials in the additional areas. Due to accessibility restraints, the tectum ceiling panels in the gymnasium were not included in the survey nor were holes drilled into interior partition doors throughout school. Additional evaluations of these materials may be required if they are to be disturbed during the renovations.

APPENDIX A: ASBESTOS INSPECTION REPORTS – ENVIROMED SERVICES



Cleaner environment. Safer workplaces.

Asbestos Roof Inspection Report

For

North Stratfield Elementary School
190 Putting Green Road
Fairfield, CT

Prepared For

Woodard & Curran
40 Shattuck Road, Suite 110
Andover, MA 01810

DD - DRAFT SUBMISSION

Date of Inspection:

December 16, 2023

EnviroMed Project

#IH-23-1880

EnviroMed Services, Inc.
470 Murdock Ave., Meriden, CT 06450
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I. PROJECT NARRATIVE

Overview

On December 16, 2023, EnviroMed Services Connecticut-licensed asbestos inspectors, Luis Santiago, (license #880) and Arianna Kehoe, (license #1175), performed an asbestos roof inspection on selected roof sections at North Stratfield School, 190 Putting Green Road, Fairfield, Connecticut. See attached roof sample location plan for which roof sections were excluded from the inspection (marked with **NIC**). The purpose of this inspection was to screen the roof sections for asbestos-containing roofing prior to rooftop HVAC work and roof replacement.

Samples were collected according to 40 CFR Part 763.86 and 29 CFR Part 1926.1101 and analyzed using Polarized Light Microscopy (PLM).

A total of sixty-nine (69) bulk samples were collected and analyzed.

Summary of Results

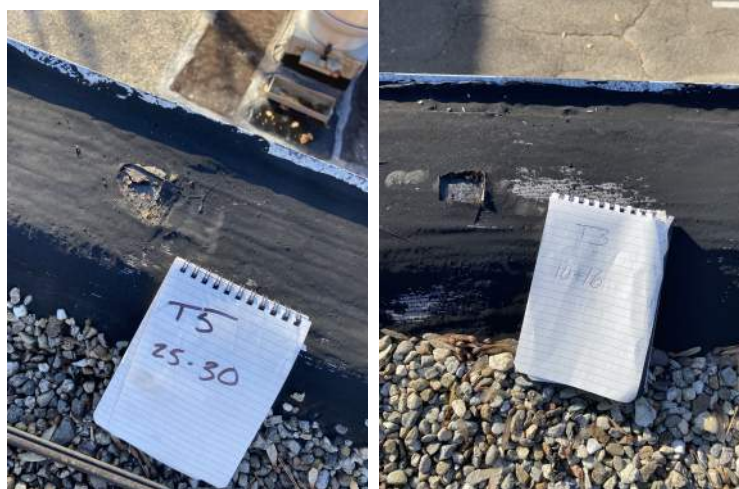
EnviroMed Services Inc. accredited asbestos laboratory analyzed the bulk samples. The complete laboratory report can be found in Section III. The following asbestos-containing ($\geq 1\%$ asbestos) roofing materials were found on the roof sections surveyed:

Material: Edge Roof Flashing & Associated Cement/Caulk (samples 8,9,11,15,33)

Location: Roof Sections 2, 3, 5, 6, 7, & 8

Quantity: 1,400 SF

Pictures:



II. SAMPLE RESULTS TABLE

Sample #	Sample Location	Material Sampled	Percent Asbestos
1	Roof 1	Main Field Roofing Top Tar/Felt	NAD
2	Roof 1	Main Field Roofing Asphalt Base Sheet	NAD
3	Roof 1	Main Field Roofing Felts	NAD
4	Roof 1	Edge Flashing	NAD
5	Roof 1	Exhaust Fan Curb Flashing	NAD
6	Roof 1	Exhaust Fan Curb Flashing Seam Cement	NAD
7	Roof 1	Main Field Roofing Fiberboard Insulation	NAD
8	Roof 2	Edge Flashing	3%
9	Roof 2	Edge Flashing Cement	2%
10	Roof 2	Gray Caulking on Exhaust Fan	NAD
11	Roof 2	Black Caulking on Edge Flashing	7%
12	Roof 2	Main Field Roofing Felts	NAD
13	Roof 2	Main Field Roofing Fiberboard Insulation	NAD
14	Roof 2	Exhaust Fan Curb Flashing Cement	NAD
15	Roof 3	Edge Flashing	5%

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
16	Roof 3	Exhaust Fan Curb Flashing	NAD
17	Roof 3	Exhaust Fan Curb Flashing Cement	NAD
18	Roof 3	Penthouse Louver Caulking	NAD
19	Roof 3	Main Field Roofing Felts	NAD
20	Roof 3	Main Field Roofing Fiberboard Insulation	NAD
21	Roof 3	Main Field Roofing Asphalt Base Sheet	NAD
22	Roof 3	Pitch Box Cement	NAD
23	Roof 4	Penthouse Louver Caulking	NAD
24	Roof 4	Penthouse Louver Caulking	NAD
25	Roof 4	Edge Flashing	NAD
26	Roof 4	Edge Flashing Cement	NAD
27	Roof 4	HVAC Curb Flashing	NAD
28	Roof 4	HVAC Curb Flashing Cement	NAD
29	Roof 4	Main Field Roofing Felts	NAD
30	Roof 4	Main Field Roofing Fiberboard Insulation	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
31	Roof 4	Main Field Roofing Foam Insulation Backer Paper	NAD
32	Roof 5	Penthouse Louver Caulking	NAD
33	Roof 5	Edge Flashing	5%
34	Roof 5	Main Field Roofing Top Felts	NAD
35	Roof 5	Main Field Roofing Asphalt Base Sheet	NAD
36	Roof 5	Chimney Flashing – Top Felt Layer	NAD
37	Roof 5	Chimney Flashing – Bottom Felt Layer	NAD
38	Roof 6	Curb Flashing	NAD
39	Roof 6	Main Field Roofing Top Felts	NAD
40	Roof 6	Main Field Roofing Asphalt Base Sheet	NAD
41	Roof 7	Gray Caulking on Wall Counterflashing	NAD
42	Roof 7	Brick Wall Base Flashing – Top Layer	NAD
43	Roof 7	Brick Wall Base Flashing – Bottom Layer	NAD
44	Roof 7	Main Field Roofing Top Felts	NAD
45	Roof 7	Main Field Roofing Asphalt Base Sheet	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
46	Roof 8	Curb Flashing	NAD
47	Roof 8	Pitch Box Cement	NAD
48	Roof 8	HVAC Curb Flashing – Top Layer Felt	NAD
49	Roof 8	HVAC Curb Flashing – Bottom Layer Felt	NAD
50	Roof 8	Main Field Roofing Top Felts	NAD
51	Roof 8	Main Field Roofing Asphalt Base Sheet	NAD
52	Roof 8	Main Field Roofing Seam Cement	NAD
53	Roof 9	Pitch Box Cement	NAD
54	Roof 9	Main Field Roofing Seam Cement	NAD
55	Roof 9	HVAC Curb Flashing	NAD
56	Roof 9	Curb Flashing – Top Layer	NAD
57	Roof 9	Curb Flashing – Top Layer	NAD
58	Roof 9	Main Field Roofing Top Felts	NAD
59	Roof 9	Main Field Roofing Foam Insulation Backing Paper	NAD
60	Roof 10	Pitch Box Cement	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
61	Roof 10	HVAC Curb Flashing – Top Layer Felt	NAD
62	Roof 10	HVAC Curb Flashing – Bottom Layer Felt	NAD
63	Roof 10	Main Field Roofing Top Felts	NAD
64	Roof 10	Main Field Roofing Asphalt Base Sheet	NAD
65	Roof 10	Curb Flashing	NAD
66	Roof 10	Curb Flashing	NAD
67	Roof 11	Main Field Roofing Top Felts	NAD
68	Roof 11	Black Caulking on Curb Flashing	NAD
69	Building Interior	Gray Duct Sealant on Big Round Duct	NAD

NAD = No Asbestos Detected

III. LABORATORY ANALYSIS REPORT



Cleaner environment. Safer workplaces.

470 Murdock Avenue, Meriden, Connecticut 06450
Phone: (203) 238-4846 Fax: (203) 238-4243

Laboratory Analysis Report

Asbestos – Bulk

To: Woodard and Curran

40 Shattuck Road, Suite 110
Andover, MA, 01810

Lab #: 26956

Date Collected: 12/16/2023

Date Received: 12/18/2023

Date Analyzed: 12/19/2023 –
1/4/2024

Date Report Prepared: 1/4/2024

Project #: IH-23-1880

Analysis: Asbestos Fiber Content

Analysis Type: Asbestos by Polarized Light Microscopy

Location: North Stratfield Elementary School Roof - 190 Putting Green Road, Fairfield, CT

Test Methods: U.S. Environmental Protection Agency (EPA) Interim Method for the Determination of Asbestos In Bulk Insulation Samples (EPA600/M4-82-020) as found in 40 CFR, Part 763, Appendix E to Subpart or the current U.S. EPA method for the analysis of asbestos in building material.
U.S. Environmental Protection Agency's Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey.

Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
1	Test Cut area #1 (Main Field, Top Hot Tar)	Black Fibrous	No Asbestos Detected
2	Test Cut area #1 (Main Field, Asphalt Base Sheet)	Black Fibrous + Cementitious	No Asbestos Detected
3	Test cut area #1 (Main Field, Roofing Felt Paper)	Black Fibrous	No Asbestos Detected
4	Test Cut Area #1 (Edge Flashing, Asphalt paper)	Black Fibrous	No Asbestos Detected
5	Test Cut Area #1 (Exhaust Fan Curb Flashing, Asphalt Paper)	Black Fibrous	No Asbestos Detected
6	Test Cut Area #1 (Exhaust Fan Curb Flashing, Asphalt Paper Seam Tar)	Black Fibrous + Cementitious	No Asbestos Detected
7	Test Cut Area #1 (Main Field, Roofing Fiber Board Insulation)	Gray Fibrous	No Asbestos Detected
8	Test Cut Area #2 (Edge Flashing, Asphalt Paper)	Black Fibrous + Cementitious	3% Chrysotile
9	Test Cut Area #2 (Edge Flashing, Asphalt paper tar)	Black Fibrous + Cementitious	2% Chrysotile
10	Test Cut Area #2 (Exhaust Fan, Caulking)	Gray Caulking	No asbestos detected
11	Test Cut Area #2 (Edge Flashing, Caulking)	Gray Caulking	7% Chrysotile
12	Test Cut Area #2 (Main Field, Roofing Asphalt Paper)	Black Fibrous	No asbestos detected
13	Test Cut Area #2 (Main Field, Roofing Fiber Board Insulation)	Black Fibrous	No asbestos detected
14	Test Cut Area #2 (Exhaust Fan Curb Flashing Tar)	Black Rubbery	No asbestos detected
15	Test Cut Area #3 (Edge Flashing, Asphalt Paper)	Black Cementitious + Fibrous	5% Chrysotile
16	Test Cut Area #3 (Exhaust Fan Curb Asphalt Paper)	Black Cementitious + Fibrous	No asbestos detected



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Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
17	Test Cut Area #3 (Exhaust Fan Curb Asphalt Paper Tar)	Black Cementitious + Fibrous	No asbestos detected
18	Test Cut Area #3 (Penthouse Louver Caulking)	Gray Caulking	No asbestos detected
19	Test Cut Area #3 (Main Field, Roofing Asphalt Paper)	Black Fibrous	No asbestos detected
20	Test Cut Area #3 (Main Field, Fiber Board)	Brown Fibrous	No asbestos detected
21	Test Cut Area #3 (Main Field, Roofing Bottom Layer Tar)	Black Fibrous	No asbestos detected
22	Test Cut Area #3 (Pitch Box)	Black Rubbery	No asbestos detected
23	Test Cut Area #4 (Penthouse Louver Caulking Right Side)	Black Caulking	No asbestos detected
24	Test Cut Area #4 (Penthouse Louver Caulking Left Side)	Black Caulking	No asbestos detected
25	Test Cut Area #4 (Edge Flashing Curb Asphalt Paper)	Black Fibrous + Cementitious	No asbestos detected
26	Test Cut Area #4 (Edge Flashing Curb Asphalt Paper Tar)	Black Fibrous + Cementitious	No asbestos detected
27	Test Cut Area #4 (Curb Flashing, HVAC, Asphalt Roofing Asphalt Paper)	Black Fibrous + Cementitious	No asbestos detected
28	Test Cut Area #4 (Curb Fashing, HVAC, Asphalt Roofing Seam Tar)	Black Cementitious	No asbestos detected
29	Test Cut Area #4 (Main Field, Roofing Paper)	Black Fibrous	No asbestos detected
30	Test Cut Area #4 (Main Field, Roofing Fiber Board)	Brown Fibrous	No asbestos detected
31	Test Cut Area #4 (Main Field, Roofing Foam Insulation Board Back Paper)	Black Fibrous + Cementitious	No asbestos detected
32	Test Cut Area #5 (Penthouse Louver Caulking)	Gray Caulking	No asbestos detected
33	Test Cut Area #5 (Edge Flashing Curb Asphalt Paper)	Black Fibrous + Cementitious	5% Chrysotile
34	Test Cut Area #5 (Main Field, Asphalt Paper Top Layer)	Black Fibrous	No asbestos detected
35	Test Cut Area #5 (Main Field, Asphalt Paper Bottom Layer)	Black Fibrous	No asbestos detected
36	Test Cut Area #5 (Curb Flashing, Chimney, Asphalt Roofing Paper Top Layer)	Black Rubbery	No asbestos detected
37	Test Cut Area #5 (Curb Flashing, Chimney, Asphalt Roofing Paper Bottom Layer)	Black Cementitious	No asbestos detected
38	Test Cut Area #6 (Curb Flashing, Roofing Asphalt)	Black Fibrous + Cementitious	No asbestos detected
39	Test Cut Area #6 (Main Field, Asphalt Paper Top Layer)	Black Fibrous	No asbestos detected
40	Test Cut Area #6 (Main Field, Asphalt Paper Bottom Layer)	Black Fibrous	No asbestos detected



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Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
41	Test Cut Area #7 (Brick Wall Curb Flashing, Caulking)	Gray Caulking	No asbestos detected
42	Test Cut Area #7 (Brick Wall Curb Flashing, Roofing Asphalt Top Layer)	Black Fibrous + Cementitious	No asbestos detected
43	Test Cut Area #7 (Brick Wall Curb Flashing, Roofing Asphalt Bottom Layer)	Black Fibrous + Cementitious	No asbestos detected
44	Test Cut Area #7 (Main Field, Asphalt Paper Top Layer)	Black Fibrous + Cementitious	No asbestos detected
45	Test Cut Area #7 (Main Field, Asphalt Paper Bottom Layer)	Black Fibrous + Cementitious	No asbestos detected
46	Test Cut Area #8 (Curb Flashing, Roofing Asphalt)	Black Fibrous + Cementitious	No asbestos detected
47	Test Cut Area #8 (Pitch Box Tar)	Black Rubbery	No asbestos detected
48	Test Cut Area #8 (Curb Flashing, HVAC, Asphalt Paper Top Layer)	Black Fibrous + Cementitious	No asbestos detected
49	Test Cut Area #8 (Curb Flashing, HVAC, Asphalt Paper Top Layer)	Black Fibrous + Cementitious	No asbestos detected
50	Test Cut Area #8 (Main Field, Asphalt Paper Top Layer)	Black Fibrous + Cementitious	No asbestos detected
51	Test Cut Area #8 (Main Field, Asphalt Paper Bottom Layer)	Black Fibrous + Cementitious	No asbestos detected
52	Test Cut Area #8 (Main Field, Asphalt Paper Top Layer Seam Tar)	Black Fibrous + Cementitious	No asbestos detected
53	Test Cut Area #9 (Pitch Box Tar)	Black Fibrous + Cementitious	No asbestos detected
54	Test Cut Area #9 (Main Field, Asphalt Paper Top Layer Seam Tar)	Black Fibrous + Cementitious	No asbestos detected
55	Test Cut Area #9 (Curb Flashing, HVAC, Asphalt Paper)	Black Fibrous + Cementitious	No asbestos detected
56	Test Cut Area #9 (Curb Flashing, Asphalt Paper Top Layer)	Black Fibrous + Cementitious	No asbestos detected
57	Test Cut Area #9 (Curb Flashing, Asphalt Paper Bottom Layer)	Black Fibrous + Cementitious	No asbestos detected
58	Test Cut Area #9 (Main Field, Asphalt Paper Top Layer)	Black Fibrous	No asbestos detected
59	Test Cut Area #9 (Main Field, Asphalt Paper Bottom Layer)	Black Fibrous + Cementitious	No asbestos detected
60	Test Cut Area #10 (Pitch Box Tar)	Black Fibrous + Cementitious	No asbestos detected
61	Test Cut Area #10 (Curb Flashing, HVAC, Asphalt Paper Top Layer)	Black Fibrous + Cementitious	No asbestos detected
62	Test Cut Area #10 (Curb Flashing, HVAC, Asphalt Paper Bottom Layer)	Black Fibrous + Cementitious	No asbestos detected
63	Test Cut Area #10 (Main Field, Asphalt Paper Top Layer)	Black Fibrous + Cementitious	No asbestos detected



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Phone: (203) 238-4846 Fax: (203) 238-4243

Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
64	Test Cut Area #10 (Main Field, Asphalt Paper Bottom Layer)	Black Fibrous + Cementitious	No asbestos detected
65	Test Cut Area #10 (Curb Flashing, Asphalt Paper Top Layer)	Black Fibrous + Cementitious	No asbestos detected
66	Test Cut Area #10 (Curb Flashing, Asphalt Paper Top Layer)	Black Fibrous + Cementitious	No asbestos detected
67	Test Cut Area #11 (Main Field, Asphalt Paper)	Black Fibrous + Cementitious	No asbestos detected
68	Test Cut Area #11 (Curb Flashing, Caulking)	Black Caulking	No asbestos detected
69	Inside Building/ Gray Duct Sealant on Bin Round Duct	Black Rubbery	No asbestos detected

Accredited for Bulk Asbestos Analysis by AIHA-LAP #100120 CT DPH #PH-0571 MA-DLS #AA000245 RI-PLM00148

Estimated Limit of Reporting: <1% asbestos.

The samples arrived in acceptable condition. The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the samples tested. There exists a degree of variability for the results due to the inherent uncertainty within the analytical method. The concentration of asbestos is determined by visual estimation. This report must NOT be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Analyst:

Gino Fiore
Gino Fiore

Date: 1/5/2024

Technical Manager:

Lawrence Cannon
Lawrence Cannon

Date: _____

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26956

Tel: (203) 238-4648

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran/ 190 Putting Green Rd. Fairfield, CT		Project/Job#: 23-1880	Collected by/Date: Luis Santiago 12-16-23	Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days
Specific Location(s): North Stratfield Elementary School Roof Inspection				Sampling Method: <input checked="" type="checkbox"/> 40 CFR Part 763.86 <input checked="" type="checkbox"/> 20 CFR Part 1926.1101 <input checked="" type="checkbox"/> EPA #600/R-93/116

Sample #	Sample Location	Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining															Total % Asbestos
		Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present		
1	Test cut area #1 (Main Field, Top hot tar)	22	Y	Black Fibrous	Y		0.01/0.05						10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD	
2	Test cut area #1 (Main Field, asphalt base sheet)	22	Y	Black Fibrous + Cementitious	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD	
3	Test cut area #1 (Main Field, Roofing felt Paper)	22	Y	Black Fibrous	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD	
4	Test Cut area #1 (Edge Flashing, Asphalt paper)	22	Y	Black Fibrous	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD	
5	Test cut area #1 (Exhaust Fan curb flashing, Asphalt paper)	22	Y	Black Fibrous	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD	
6	Test cut area #1 (Exhaust Fan curb flashing, Asphalt paper seam tar)	22	Y	Black Fibrous + Cementitious	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD	
7	Test cut area #1 (Main Field, Roofing fiber board insulation)	22	Y	Gray Fibrous	Y		0.61/0.05						10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD	
8	Test cut area #2 (Edge Flashing, Asphalt paper)	22	Y	Black Fibrous + Cementitious	Y	wavy	1.541/1.551	11. Brown 12. Blue	P r N C				15% Cellulose Fiberglass	Incomplete Extinction Isotropic	83% Particulate	3% Chrysotile	

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel: Reference Slide: 1866-Chry.	Relinquished by: Luis Santiago	Date: 12/15/2023	Analyzed by: Sara Fiore	Date: 12/16/23-1/2/24	Additional Comments:
QC: 6, 11, 27, 33, 43, 53, 63	Received by: Lino Fiore	Date: 12/18/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis:

AIHA-LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26956

Tel: (203) 238-4648

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran/ 190 Putting Green Rd. Fairfield, CT				Project/Job#: 23-1880				Collected by/Date: Luis Santiago 12-15-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s): North Stratfield Elementary School Roof Inspection												Sampling Method: <input checked="" type="checkbox"/> 40 CFR Part 763.86 <input checked="" type="checkbox"/> 20 CFR Part 1926.1101 <input checked="" type="checkbox"/> EPA #600/R-93/116				
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
9	Test cut area #2 (Edge Flashing, Asphalt paper tar)	22	Y	Black Fibrous + Cementitious	Y	wavy	1.541 / 1.551	Blue/mauve Blue	P + N	L			10% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	2% Chrysotile
10	Test cut area #2 (Exhaust Fan caulking)	22	Y	Gray caulking	Y		0.01 / 0.05						5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
11	Test cut area #2 (Edge Flashing, caulking)	22	Y	Black/Gray Caulking	Y	wavy	1.541 / 1.551	11. Blue/mauve L. Blue	P + N	L			10% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	7% Chrysotile
12	Test cut area #2 (Main Field, Roofing asphalt paper)	22	Y	Black Fibrous	Y		0.01 / 0.05						15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
13	Test cut area #2 (Main Field, Roofing fiber board insulation)	22	Y	Brown Fibrous	Y		0.01 / 0.05						20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
14	Test cut area #2 (Exhaust Fan curb flashing tar)	22	Y	Black Rubber	Y		0.01 / 0.05						10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
15	Test cut area #3 (Edge Flashing, Asphalt paper)	22	Y	Black Fibrous + Cementitious	Y	wavy	1.541 / 1.551	11. Blue/mauve L. Blue	P + N	L			Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	5% Chrysotile
16	Test cut area #3 (Exhaust Fan curb Asphalt paper)	22	Y	Black Fibrous + Cementitious	Y		0.01 / 0.05						15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by: Luis Santiago	Date: 12/15/2023	Analyzed by: Gino Fiore	Date: 12/19/23-1/2/24	Additional Comments:
QC:	Received by: Gino Fiore	Date: 12/18/2023	Approved by:	Date:	

NAD: No Asbestos Detected

Accredited for Bulk Asbestos Analysis:

AIHA-LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26956

Tel: (203) 238-4648

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran/ 190 Putting Green Rd. Fairfield, CT				Project/Job#: 23-1880				Collected by/Date: Luis Santiago 12-15-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s): North Stratfield Elementary School Roof Inspection												Sampling Method: <input checked="" type="checkbox"/> 40 CFR Part 763.86 <input checked="" type="checkbox"/> 20 CFR Part 1926.1101 <input checked="" type="checkbox"/> EPA #600/R-93/116				
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
17	Test cut area #3 (Exhaust Fan curb Asphalt paper tar)	22	Y	Black Fibrous + cementitious	Y		0.01 / 10.05						10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
18	Test cut area #3 (Penthouse louver caulking)	22	Y	Gray Caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
19	Test cut area #3 (Main Field, Roofing asphalt paper)	22	Y	Black Fibrous	X								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
20	Test cut area #3 (Main Field, fiber board)	22	Y	Brown Fibrous	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
21	Test cut Area #3 (Main Field, Roofing bottom layer tar)	22	Y	Black Fibrous	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
22	Test cut area #3 (Pitch Box)	22	Y	Black Rubbery	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
23	Test cut area #4 (Penthouse louver caulking right side)	22	Y	Black Caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
24	Test cut area #4 (Penthouse louver caulking left side)	22	Y	Black Caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments: NAD: No Asbestos Detected
Reference Slide:	Luis Santiago	12/15/2023	<i>Sam Fione</i>	12/19/23-1/2/24	
QC:	Received by:	Date:	Approved by:	Date:	
	<i>Sam Fione</i>	12/18/2023			

Accredited for Bulk Asbestos Analysis:

AIHA-LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26956

Tel: (203) 238-4648

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran/ 190 Putting Green Rd. Fairfield, CT				Project/Job#: 23-1880				Collected by/Date: Luis Santiago 12-15-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s): North Stratfield Elementary School Roof Inspection												Sampling Method: <input checked="" type="checkbox"/> 40 CFR Part 763.86 <input checked="" type="checkbox"/> 20 CFR Part 1926.1101 <input checked="" type="checkbox"/> EPA #600/R-93/116				
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
25	Test cut area #4 (Edge Flashing curb Asphalt paper)	22	Y	Black Fibrous + Cementitious	Y		0.01/10.05						15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
26	Test cut area #4 (Edge Flashing curb Asphalt paper tar)	22	Y	Black Fibrous + Cementitious	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
27	Test cut area #4 (Curb Flashing, HVAC, Asphalt Roofing asphalt paper)	22	Y	Black Fibrous + Cementitious	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
28	Test cut area #4 (Curb Flashing, HVAC, Asphalt Roofing seam tar)	22	Y	Black Cementitious	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
29	Test cut Area #4 (Main Field, Roofing paper)	22	Y	Black Fibrous	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
30	Test cut area #4 (Main Field, roofing fiber board)	22	Y	Brown Fibrous	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
31	Test cut area #4 (Main Field, roofing foam insulation board back paper)	22	Y	Black Fibrous + Cementitious	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
32	Test cut area #5 (Penthouse louver caulking)	22	Y	Gray Caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments: NAD: No Asbestos Detected
Reference Slide:	Luis Santiago	12/15/2023	<i>Swu Fure</i>	12/19/23-1/2/24	
QC:	Received by:	Date:	Approved by:	Date:	
	<i>Gino Fure</i>	12/18/2023			

Accredited for Bulk Asbestos Analysis:

AIHA-LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26956

Tel: (203) 238-4648

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran/ 190 Putting Green Rd. Fairfield, CT				Project/Job#: 23-1880				Collected by/Date: Luis Santiago 12-15-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s): North Stratfield Elementary School Roof Inspection												Sampling Method: <input checked="" type="checkbox"/> 40 CFR Part 763.86 <input checked="" type="checkbox"/> 20 CFR Part 1926.1101 <input checked="" type="checkbox"/> EPA #600/R-93/116				
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
33	Test cut area #5 (Edge Flashing curb Asphalt paper)	22	Y	Black Fibrous Cementitious	Y	Wavy	1.541 / 1.531	Blue	P + N	L			10% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	5% Chrysotile
34	Test cut area #5 (Main Field , Asphalt paper top layer)	22	Y	Black Fibrous	Y		0.01 / 1.005						15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
35	Test cut area #5 (Main Field , Asphalt paper bottom layer)	22	Y	Black Fibrous	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
36	Test cut area #5 (Curb Flashing , Chimney, Asphalt Roofing paper top layer)	22	Y	Black Rubbery	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
37	Test cut area #5 (Curb Flashing , Chimney, Asphalt Roofing paper bottom layer)	22	Y	Black Cementitious	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
38	Test cut area #6 (Curb Flashing , roofing asphalt)	22	Y	Black Fibrous Cementitious	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
39	Test cut area #6 (Main Field, asphalt paper top layer)	22	Y	Black Fibrous	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
40	Test cut area #6 (Main Field, asphalt paper bottom layer)	22	Y	Black Fibrous	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments: NAD: No Asbestos Detected
Reference Slide:	Luis Santiago	12/15/2023	Gino Fiore	12/19/23-1/2/24	
QC:	Received by:	Date:	Approved by:	Date:	
	Gino Fiore	12/16/2023			

Accredited for Bulk Asbestos Analysis:

AIHA-LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26956

Tel: (203) 238-4648

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran/ 190 Putting Green Rd. Fairfield, CT				Project/Job#: 23-1880				Collected by/Date: Luis Santiago 12-15-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s): North Stratfield Elementary School Roof Inspection												Sampling Method: <input checked="" type="checkbox"/> 40 CFR Part 763.86 <input checked="" type="checkbox"/> 20 CFR Part 1926.1101 <input checked="" type="checkbox"/> EPA #600/R-93/116				
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, 1, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
41	Test cut area #7 (Brick wall Curb Flashing , caulking)	22	Y	Gray Caulking	Y		0.01 / 0.65						5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
42	Test cut area #7 (Brick wall Curb Flashing , roofing asphalt top layer)	22	Y	Black Fibrous cementitious	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
43	Test cut area #7 (Brick wall Curb Flashing , roofing asphalt bottom layer)	22	Y	Black Fibrous + cementitious	Y								25% Cellulose Fiberglass	Incomplete Extinction Isotropic	75% Particulate	NAD
44	Test cut area #7 (Main Field, asphalt paper top layer)	22	Y	Black Fibrous cementitious	Y								25% Cellulose Fiberglass	Incomplete Extinction Isotropic	75% Particulate	NAD
45	Test cut area #7 (Main Field, asphalt paper bottom layer)	22	Y	Black Fibrous + cementitious	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
46	Test cut area #8 (Curb Flashing , roofing asphalt)	22	Y	Black Fibrous + cementitious	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
47	Test cut area #8 (Pitch box tar)	22	Y	Black Rubbery	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
48	Test cut area #8 (Curb Flashing , HVAC , asphalt paper top layer)	22	Y	Black Fibrous + cementitious	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:		Relinquished by:		Date:		Analyzed by:		Date:		Additional Comments:
Reference Slide:		Luis Santiago		12/15/2023		Gino Fiore		12/19/23-1/2/24		
QC:		Received by:		Date:		Approved by:		Date:		
		Gino Fiore		12/18/2023						

Accredited for Bulk Asbestos Analysis: AIHA-LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26956

Tel: (203) 238-4648

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran/ 190 Putting Green Rd. Fairfield, CT				Project/Job#: 23-1880				Collected by/Date: Luis Santiago 12-15-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s): North Stratfield Elementary School Roof Inspection												Sampling Method: <input checked="" type="checkbox"/> 40 CFR Part 763.86 <input checked="" type="checkbox"/> 20 CFR Part 1926.1101 <input checked="" type="checkbox"/> EPA #600/R-93/116				
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
49	Test cut area #8 (Curb Flashing , HVAC , asphalt paper bottom layer)	22	Y	Black Rubber + Cementitious	Y		0.61 / 0.05						20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
50	Test cut area #8 (Main Field, asphalt paper top layer)	22	X	Black Fibrous + Cementitious	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
51	Test cut area #8 (Main Field, asphalt paper bottom layer)	22	Y	Black Fibrous + Cementitious	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
52	Test cut area #8 (Main Field, asphalt paper top layer seam tar)	22	Y	Black Rubber + Cementitious	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
53	Test cut area #9 (Pitch box tar)	22	Y	Black Rubber + Cementitious	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
54	Test cut area #9 (Main Field, asphalt paper top layer seam tar)	22	Y	Black Rubber + Cementitious	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
55	Test cut area #9 (Curb Flashing , HVAC , asphalt paper)	22	Y	Black Fibrous + Cementitious	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
56	Test cut area #9 (Curb Flashing, asphalt paper top layer)	22	Y	Black Fibrous + Cementitious	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments: NAD: No Asbestos Detected
Reference Slide:	Luis Santiago	12/15/2023	Gino Fiore	12/19/23-1/2/24	
QC:	Received by:	Date:	Approved by:	Date:	
	Gino Fiore	12/18/2023			

Accredited for Bulk Asbestos Analysis:

AIHA-LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26956

Tel: (203) 238-4648

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran/ 190 Putting Green Rd. Fairfield, CT				Project/Job#: 23-1880				Collected by/Date: Luis Santiago 12-15-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s): North Stratfield Elementary School Roof Inspection												Sampling Method: <input checked="" type="checkbox"/> 40 CFR Part 763.86 <input checked="" type="checkbox"/> 20 CFR Part 1926.1101 <input checked="" type="checkbox"/> EPA #600/R-93/116				
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
57	Test cut area #9 (Curb Flashing , asphalt paper bottom layer)	22	Y	Black Fib. brns Cementitious	Y		0.01 / 0.65						20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
58	Test cut area #9 (Main Field, asphalt paper top layer)	22	Y	Black Fibrous	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
59	Test cut area #9 (Main Field, Foam insulation bottom paper lower layer)	22	Y	Black Fibrous Cementitious	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
60	Test cut area #10 (Pitch box tar)	22	Y	Black Rubber Cementitious	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
61	Test cut area #10 (Curb Flashing , HVAC , asphalt paper top layer)	22	Y	Black Fibrous Cementitious	Y								20% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	70% Particulate	NAD
62	Test cut area #10 (Curb Flashing , HVAC , asphalt paper bottom layer)	22	Y	Black Fibrous Cementitious	Y								20% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	70% Particulate	NAD
63	Test cut area #10 (Main Field, asphalt paper top layer)	22	Y	Black Fibrous Cementitious	Y								20% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	70% Particulate	NAD
64	Test cut area #10 (Main Field, asphalt paper bottom layer)	22	Y	Black Fibrous Cementitious	Y								20% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	70% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:		Relinquished by:		Date:		Analyzed by:		Date:		Additional Comments:	
Reference Slide:		Luis Santiago		12/15/2023		Gino Fiore		12/19/23-11/24/24		NAD: No Asbestos Detected	
QC:		Received by:		Date:		Approved by:		Date:			
		Gino Fiore		12/18/2023							

Accredited for Bulk Asbestos Analysis:

AIHA-LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26956

Tel: (203) 238-4648

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran/ 190 Putting Green Rd. Fairfield, CT				Project/Job#: 23-1880				Collected by/Date: Luis Santiago 12-15-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s): North Stratfield Elementary School Roof Inspection												Sampling Method: <input checked="" type="checkbox"/> 40 CFR Part 763.86 <input checked="" type="checkbox"/> 20 CFR Part 1926.1101 <input checked="" type="checkbox"/> EPA #600/R-93/116				
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
65	Test cut area #10 (Curb Flashing , asphalt paper top layer)	22	Y	Black Fibrous Cementitious	Y		0.01 / 10.05						20% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	70% Particulate	NAD
66	Test cut area #10 (Curb Flashing , asphalt paper top layer)	22	Y	Black Fibrous Cementitious	Y								20% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	70% Particulate	NAD
67	Test cut area #11 (Main Field, Asphalt paper)	22	Y	Black Fibrous Cementitious	Y								20% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	70% Particulate	NAD
68	Test cut area #11 (Curb Flashing , Caulking)	22	Y	Black Caulking	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
69	Inside Building/Gray Duct Sealant on Bin Round Duct	22	Y	Black Rubbery	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
													Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments: NAD: No Asbestos Detected
Reference Slide:	Luis Santiago	12/15/2023	<i>Swo Fire</i>	12/19/23-1/2/24	
QC:	Received by:	Date:	Approved by:	Date:	
	<i>Gino Fiore</i>	12/18/2023			

Accredited for Bulk Asbestos Analysis:

AIHA-LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

IV. SAMPLE LOCATION PLAN





Cleaner environment. Safer workplaces.

Asbestos Interior Inspection Report

Main Entrance Area

Walls

Ceilings

Above Ceilings

For

North Stratfield Elementary School

190 Putting Green Road

Fairfield, CT

Prepared For

Woodard & Curran

40 Shattuck Road, Suite 110

Andover, MA 01810

DD - DRAFT SUBMISSION

Date of Inspection:

December 27-28, 2023

EnviroMed Project

#IH-23-1880

EnviroMed Services, Inc.

470 Murdock Ave., Meriden, CT 06450

Telephone (203) 238-4846 • Facsimile (203) 238-4243

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II. SAMPLE LOG AND RESULTS TABLE	3
III. LABORATORY ANALYSIS REPORT	12
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I. PROJECT NARRATIVE

Overview

On December 27-28, 2023, EnviroMed Services Connecticut-licensed asbestos inspectors Dominick Fiore, (license #299) and Leonardo Abreu, (license #1092), performed a limited interior asbestos inspection at North Stratfield Elementary School, 190 Putting Green Road, Fairfield, Connecticut. The primary focus of the inspection was on ceiling types, wall types, and materials above ceilings that would be disturbed by planned HVAC renovations. The second focus of the inspection was on materials in the Main Entrance Area, where a renovation is planned. See attached sample location plan for which sections of the school were excluded from the inspection (marked with NIC).

Samples were collected according to 40 CFR Part 763.86 and 29 CFR Part 1926.1101 and analyzed using Polarized Light Microscopy (PLM).

A total of one hundred thirty-four (134) bulk samples were collected and analyzed.

Summary of Results

EnviroMed Services Inc. accredited asbestos laboratory analyzed the bulk samples. The complete laboratory report can be found in Section III. The following asbestos-containing ($\geq 1\%$ asbestos) materials were found in the school sections surveyed:

Main Entrance Area

Asbestos-Containing Materials Found:

None

Materials Found to be Non-Asbestos:

Black caulking on entry door frame side windows

Exterior entry door frame caulk

Mortar for exterior brick

White caulking where limestone columns meet brick at entry overhang

Mortar joints between exterior limestone columns
Cement joints between flagstones
White caulk between overhang plaster panels
White caulk where overhang plaster meets brick wall
Brown caulk around vestibule exterior door window panes
Wallboard and associated joint compound
Black door frame caulk applied to brick
Plaster overhang ceiling – rough & skim coats
Shiny flagstone floors
Flagstone flooring cement
Black cementitious sealer around flagstone floor perimeter
2x4 ceiling tiles
Cementitious door frame sealer at brick wall
Black pipe sealant above ceiling

Renovation Areas

Asbestos-Containing Wall & Ceiling Materials Found:

None

Wall & Ceiling Materials Found to be Non-Asbestos:

2x2 Ceiling Tiles
2x4 Ceiling Tiles
Fiberboard Wall Material
Wallboard & Joint Compound

Asbestos-Containing Materials Found Above Ceilings:

- Transite above lockers in hallway by Classroom 2 (Kindergarten 153) – 10 SF
- Mudded roof drain insulation in Room 20 (SP. ED. 188) – 3 LF (note that more roof drain insulation is likely hidden in chases).
- Mudded pipe fitting insulation above ceilings in Corridors 147, 129, 222, 156, & 189 – 25 LF (note that more pipe fitting insulation is likely hidden in chases).

II. SAMPLE LOG AND RESULTS TABLE

Sample #	Sample Location	Material Sampled	Percent Asbestos
1	Classroom 1	Wallboard	NAD
2	Classroom 1	Wallboard Joint Compound	NAD
3	Classroom 1	2x2 Ceiling Tile	NAD
4	Hall between Classroom 1 & 2	Wallboard	NAD
5	Hall between Classroom 1 & 2	Wallboard Joint Compound	NAD
6	Hall between Classroom 1 & 2	2x2 Ceiling Tile	NAD
7	Classroom 4	Wallboard	NAD
8	Classroom 4	Wallboard Joint Compound	NAD
9	Classroom 4	2x2 Ceiling Tile	NAD
10	Classroom 5	Wallboard	NAD
11	Classroom 5	Wallboard Joint Compound	NAD
12	Classroom 5	Fiberboard	NAD
13	Classroom 5	2x2 Ceiling Tile	NAD
14	Classroom 7	Wallboard – 1 st Layer	NAD
15	Classroom 7	Wallboard – 2 nd Layer	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
16	Classroom 7	Wallboard Joint Compound	NAD
17	Classroom 7	2x2 Ceiling Tile	NAD
18	Hall by Classroom 7	Fiberboard	NAD
19	Classroom 11	Fiberboard	NAD
20	Classroom 11	2x2 Ceiling Tile	NAD
21	Art Room	Wallboard	NAD
22	Art Room	Wallboard Joint Compound	NAD
23	Art Room	2x2 Ceiling Tile	NAD
24	Hallway by Art Room	2x2 Ceiling Tile	NAD
25	Music Room	Wallboard	NAD
26	Music Room	Wallboard Joint Compound	NAD
27	Music Room	2x2 Ceiling Tile	NAD
28	Classroom 26	Wallboard	NAD
29	Classroom 26	Wallboard Joint Compound	NAD
30	Classroom 26	2x2 Ceiling Tile	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
31	Hallway by Classroom 26	Wallboard	NAD
32	Hallway by Classroom 26	Wallboard Joint Compound	NAD
33	Hallway by Classroom 26	2x2 Ceiling Tile	NAD
34	Classroom 23	Wallboard	NAD
35	Classroom 23	Wallboard Joint Compound	NAD
36	Classroom 23	2x2 Ceiling Tile	NAD
37	Hallway 155	Wallboard	NAD
38	Hallway 155	Wallboard Joint Compound	NAD
39	Hallway 155	2x2 Ceiling Tile	NAD
40	Classroom 21	Wallboard	NAD
41	Classroom 21	2x2 Ceiling Tile	NAD
42	Classroom 21	Wallboard Joint Compound	NAD
43	Classroom 17	Wallboard	NAD
44	Classroom 17	Wallboard Joint Compound	NAD
45	Classroom 17	2x2 Ceiling Tile	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
46	Hallway between Classroom 18 & 21	Fiberboard	NAD
47	Hallway between Classroom 16 & 20	Fiberboard	NAD
48	Hallway between Classroom 16 & 20	2x2 Ceiling Tile	NAD
49	Classroom 20	Wallboard	NAD
50	Classroom 20	Wallboard Joint Compound	NAD
51	Classroom 20	2x2 Ceiling Tile	NAD
52	Office Reception	2x2 Ceiling Tile	NAD
53	Office Reception	Wallboard Joint Compound	NAD
54	Office Reception	2x2 Ceiling Tile	NAD
55	Room 1	Gray Fire Caulk at Duct Penetration	NAD
56	Room 1	Gray Fire Caulk at Duct Penetration	NAD
57	Hallway by Room 2	Red Fire Caulk	NAD
58	Hallway by Room 2	Transite Board	10%
59	Hallway by Room 2	Transite Board	7%
60	Hallway by Room 2	Transite Board	5%

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
61	Hallway by Room 2	Gray Duct Sealer	NAD
62	Hallway by Room 3 & 5	Black Fiberglass Pipe Insulation Cover	NAD
63	Hallway by Room 3 & 5	Lime Green Fiberglass Pipe Insulation Cover	NAD
64	Hallway by Room 6	Red Fire Caulk	NAD
65	Hallway by Room 8 & 9	Black Fiberglass Pipe Insulation Cover	NAD
66	Hallway by Room 8 & 9	Lime Green Fiberglass Pipe Insulation Cover	NAD
67	Hallway by Room 8 & 9	Red Fire Caulk	NAD
68	Hallway by Room 11 & 12	Black Fiberglass Pipe Insulation Cover	NAD
69	Hallway by Room 11 & 12	Lime Green Fiberglass Pipe Insulation Cover	NAD
70	Art Room	Debris above Ceiling Tile	NAD
71	Art Room	Debris above Ceiling Tile	NAD
72	Art Room	Debris above Ceiling Tile	NAD
73	Hallway by Cafeteria	Lime Green Fiberglass Pipe Insulation Cover	NAD
74	Hallway by Cafeteria	Tan Wrap on Fiberglass Pipe Insulation	NAD
75	Hallway by Cafeteria	Tan Wrap on Fiberglass	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
76	Hallway by Cafeteria	Gray Mudded Pipe Fitting Insulation	3%
77	Hallway by Cafeteria	Gray Mudded Pipe Fitting Insulation	5%
78	Hallway by Cafeteria	Gray Mudded Pipe Fitting Insulation	4%
79	Hallway by Cafeteria	Red Fire Caulk	NAD
80	Hallway by Rooms 25 & 26	Gray Fire Caulk	NAD
81	Hallway by Rooms 25 & 26	Red Fire Caulk	NAD
82	Hallway by Rooms 19 & 22	Lime Green Fiberglass Pipe Insulation Cover	NAD
83	Hallway by Rooms 19 & 22	Off White Fiberglass Pipe Insulation Cover	NAD
84	Hallway by Rooms 19 & 22	Red Fire Caulk	NAD
85	Hallway by Rooms 17 & 20	Lime Green Fiberglass Pipe Insulation Cover	NAD
86	Hallway by Rooms 17 & 20	Off White Fiberglass Pipe Insulation Cover	NAD
87	Hallway by Rooms 17 & 20	Gray Caulking	NAD
88	Room 20	Roof Drain Elbow Insulation	3%
89	Room 20	Roof Drain Elbow Insulation	2%
90	Room 20	Roof Drain Elbow Insulation	5%

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
91	Conference Room – Main Office	Black Pipe Sealant	NAD
92	Conference Room – Main Office	Black Pipe Sealant	NAD
93	Conference Room – Main Office	Black Pipe Sealant	NAD
94	Main Lobby Vestibule	Cement Door Frame Sealant at Brick Wall	NAD
95	Main Lobby Vestibule	Cement Door Frame Sealant at Brick Wall	NAD
96	Main Lobby Vestibule	2x4 Ceiling Tile	NAD
97	Main Lobby Vestibule	Black Cement Sealer at Edge of Flagstone Floor	NAD
98	Main Lobby Vestibule	Black Cement Sealer at Edge of Flagstone Floor	NAD
99	Main Lobby Vestibule	Black Cement Sealer at Edge of Flagstone Floor	NAD
100	Main Lobby Vestibule	Flagstone Flooring Cement	NAD
101	Main Lobby Vestibule	Flagstone Flooring Cement	NAD
102	Main Lobby Vestibule	Flagstone Flooring Cement	NAD
103	Main Lobby Vestibule	Shiny Flagstone Flooring	NAD
104	Main Lobby Vestibule	Shiny Flagstone Flooring	NAD
105	Main Lobby Vestibule	Shiny Flagstone Flooring	NAD

Sample #	Sample Location	Material Sampled	Percent Asbestos
106	Main Lobby Vestibule	Rough Coat Plaster Overhang	NAD
107	Main Lobby Vestibule	Rough Coat Plaster Overhang	NAD
108	Main Lobby Vestibule	Rough Coat Plaster Overhang	NAD
109	Main Lobby Vestibule	Skim Coat Plaster Overhang	NAD
110	Main Lobby Vestibule	Skim Coat Plaster Overhang	NAD
111	Main Lobby Vestibule	Skim Coat Plaster Overhang	NAD
112	Main Lobby Vestibule	Black Door Frame Caulk at Brick	NAD
113	Main Lobby Vestibule	Black Door Frame Caulk at Brick	NAD
114	Main Lobby Vestibule	Wallboard – Above Doors	NAD
115	Main Lobby Vestibule	Wallboard – Above Doors	NAD
116	Main Lobby Vestibule	Caulking around Door Window Panes	NAD
117	Main Lobby Vestibule	Caulking around Door Window Panes	NAD
118	Main Lobby Vestibule - Exterior	White Caulk where Overhang Plaster Ceiling Meets Brick	NAD
119	Main Lobby Vestibule - Exterior	White Caulk where Overhang Plaster Ceiling Meets Brick	NAD
120	Main Lobby Vestibule - Exterior	Cement Joints at Flagstones	NAD

Sample #	Sample Location	Material Sampled	Percent Asbestos
121	Main Lobby Vestibule - Exterior	Cement Joints at Flagstones	NAD
122	Main Lobby Vestibule - Exterior	Cement Joints at Flagstones	NAD
123	Main Lobby Vestibule - Exterior	Mortar Joints between Limestone Columns	NAD
124	Main Lobby Vestibule - Exterior	Mortar Joints between Limestone Columns	NAD
125	Main Lobby Vestibule - Exterior	Mortar Joints between Limestone Columns	NAD
126	Main Lobby Vestibule - Exterior	White Caulk where Limestone Columns meet Brick	NAD
127	Main Lobby Vestibule - Exterior	White Caulk where Limestone Columns meet Brick	NAD
128	Main Lobby Vestibule - Exterior	White Caulk where Limestone Columns meet Brick	NAD
129	Main Lobby Vestibule - Exterior	Mortar for Exterior Brick	NAD
130	Main Lobby Vestibule - Exterior	Mortar for Exterior Brick	NAD
131	Main Lobby Vestibule - Exterior	Exterior Door Frame Caulk	NAD
132	Main Lobby Vestibule - Exterior	Exterior Door Frame Caulk	NAD
133	Main Lobby Vestibule - Exterior	Black Caulk at Door Frame Side Windows	NAD
134	Main Lobby Vestibule - Exterior	Black Caulk at Door Window	NAD

III. LABORATORY ANALYSIS REPORT



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470 Murdock Avenue, Meriden, Connecticut 06450

Phone: (203) 238-4846 Fax: (203) 238-4243

Laboratory Analysis Report

Asbestos – Bulk

To: Woodard and Curran

40 Shattuck Road, Suite 110

Andover, MA, 01810

Lab #: 26991

Date Collected: 12/27-28/2023

Date Received: 12/29/2023

Date Analyzed: 1/9-1/11/2024

Date Report Prepared: 1/15/2023

Project #: IH-23-1880

Analysis: Asbestos Fiber Content

Analysis Type: Asbestos by Polarized Light Microscopy

Location: North Stratfield Elementary School – 190 Putting Green Road, Fairfield, CT

Test Methods: U.S. Environmental Protection Agency (EPA) Interim Method for the Determination of Asbestos In Bulk Insulation Samples (EPA/600/M4-82-020) as found in 40 CFR, Part 763, Appendix E to Subpart or the current U.S. EPA method for the analysis of asbestos in building material.

U.S. Environmental Protection Agency's Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey.

Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
1	Classroom 1 Wallboard	Gray Cementitious	No Asbestos Detected
2	Classroom 1 Wall Joint Compound	White Compound	No Asbestos Detected
3	Classroom 1 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
4	Hall Between Classrooms 1 and 2 Wallboard	Light Gray Cementitious	No Asbestos Detected
5	Hallway Between Classroom 1 and 2 Wall Joint Compound	White Compound	No Asbestos Detected
6	Hall Between Classrooms 1 and 2 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
7	Classroom 4 Wallboard	Gray Fibrous	No Asbestos Detected
8	Classroom 4 Wall Joint Compound	White Compound	No Asbestos Detected
9	Classroom 4 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
10	Classroom 5 Wallboard	Light Gray Cementitious	No Asbestos Detected
11	Classroom 5 Wall Joint Compound	White Compound	No Asbestos Detected
12	Classroom 5 Fiberboard	Brown Fibrous	No Asbestos Detected
13	Classroom 5 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
14	Classroom 7 1 st Layer Wallboard	Light Gray Cementitious	No Asbestos Detected
15	Classroom 7 2 nd Layer Wallboard	Light Gray Cementitious	No Asbestos Detected
16	Classroom 7 Wall Joint Compound	Off-White Compound	No Asbestos Detected



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Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
17	Classroom 7 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
18	Hallway by Room 7 Fiberboard	Brown Fibrous	No Asbestos Detected
19	Classroom 11 Fiberboard	Gray Fibrous	No Asbestos Detected
20	Classroom 11 2' x 2' Ceiling Tile	Brown Fibrous	No Asbestos Detected
21	Art Room Wallboard	Light Gray Cementitious	No Asbestos Detected
22	Art Room Wall Joint Compound	White Compound	No Asbestos Detected
23	Art Room 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
24	Hallway by Art Room 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
25	Music Room Wallboard	Light Gray Cementitious	No Asbestos Detected
26	Music Room Wall Joint Compound	White Compound	No Asbestos Detected
27	Music Room 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
28	Classroom 26 Wallboard	Light Gray Cementitious	No Asbestos Detected
29	Classroom 26 Wall Joint Compound	White Compound	No Asbestos Detected
30	Classroom 26 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
31	Hallway by Classroom 26 Wallboard	Gray Cementitious	No Asbestos Detected
32	Hallway by Classroom 26 Wall Joint Compound	White Compound	No Asbestos Detected
33	Hallway by Classroom 26 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
34	Classroom 23 Wallboard	Light Gray Cementitious	No Asbestos Detected
35	Classroom 23 Wall Joint Compound	White Compound	No Asbestos Detected
36	Classroom 23 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
37	Hallway 155 Wallboard	Gray Cementitious	No Asbestos Detected
38	Hallway 155 Wall Joint Compound	White Compound	No Asbestos Detected
39	Hallway 155 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
40	Classroom 21 Wallboard	Light Gray Cementitious	No Asbestos Detected
41	Classroom 21 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected



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470 Murdock Avenue, Meriden, Connecticut 06450

Phone: (203) 238-4846 Fax: (203) 238-4243

Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
42	Classroom 21 Wall Joint Compound	White Compound	No Asbestos Detected
43	Classroom 17 Wallboard	Gray Cementitious	No Asbestos Detected
44	Classroom 17 Wall Joint Compound	White Compound	No Asbestos Detected
45	Classroom 17 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
46	Hallway Between 18 and 21 Fiberboard	Brown Fibrous	No Asbestos Detected
47	Hallway Between 16 and 20 Fiberboard	Brown Fibrous	No Asbestos Detected
48	Hallway Between 16 and 20 2' x 2' Ceiling Tile	Gray Fibrous	No Asbestos Detected
49	Classroom 20 Wallboard	Light Gray Cementitious	No Asbestos Detected
50	Classroom 20 Wall Joint Compound	White Compound	No Asbestos Detected
51	Classroom 20 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
52	Office Reception Room Wallboard	Light Gray Cementitious	No Asbestos Detected
53	Office Reception Room Wall Joint Compound	White Compound	No Asbestos Detected
54	Office Reception Room 2' x 2' Ceiling Tile	Tan Fibrous	No Asbestos Detected
55	Room 1 Gray Fire Caulk where Duct Goes through Gypsum Wallboard	Dark Gray Caulking	No Asbestos Detected
56	Room 1 Gray Fire Caulk where Duct Goes through Gypsum Wallboard	Dark Gray Caulking	No Asbestos Detected
57	Hallway Above Lockers by Room 2 Red Fire Caulk	Dark Red Caulking	No Asbestos Detected
58	Hallway Above Lockers by Room 2 Cement Panel (Transite)	Light Gray Transite	10% Chrysotile
59	Hallway Above Lockers by Room 2 Cement Panel (Transite)	Light Gray Transite	7% Chrysotile
60	Hallway Above Lockers by Room 2 Cement Panel (Transite)	Light Gray Transite	5% Chrysotile
61	Hallway Above Lockers by Room 2 Gray Caulk/Duct Sealer	Dark Gray Caulking	No Asbestos Detected
62	Hallway by Rooms 3 and 5 Pip Insulation Cover Over Fiberglass Pipe	Black Fibrous	No Asbestos Detected
63	Hallway Between Rooms 3 and 5 Lime Green Protective Pipe Cover	Green/Yellow Fibrous	No Asbestos Detected
64	Above Hallway Window Room 6 Red Fire Caulk	Red Caulking	No Asbestos Detected
65	Hallway Between Rooms 8 and 9 Protective Cover Over Fiberglass Pipe Insulation	Black/Yellow Fibrous	No Asbestos Detected



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Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
66	Hallway Between Rooms 8 and 9 Lime Green Protective Pipe Cover	Green/Yellow Fibrous	No Asbestos Detected
67	Hallway Between Room 8 and 9 Red Fire Caulk	Red Caulking	No Asbestos Detected
68	Hallway Between Rooms 11 and 12 Protective Cover Over Fiberglass Pipe Insulation	Black/Yellow Fibrous	No Asbestos Detected
69	Hallway Between Rooms 11 and 12 Protective Cover Over Fiberglass Pipe Insulation	Green/Yellow Fibrous	No Asbestos Detected
70	Art Room Back of Right Storage Tar and Debris Above Lay in Ceiling Tile	Black/Brown Tar/Fibrous	No Asbestos Detected
71	Art Room Back of Right Storage Tar on Debris Above Lay in Ceiling Tile	Black Tar	No Asbestos Detected
72	Art Room Back of Right Storage Tar on Debris Above Lay in Ceiling Tile	Black Tar	No Asbestos Detected
73	Hallway Adjacent to Cafeteria Lime Green Protective Coating Over Fiberglass Pipe Insulation	Green/Yellow Fibrous	No Asbestos Detected
74	Hallway Adjacent to Cafeteria Protective Wrap Over Fiberglass Pipe Insulation	Tan Fibrous	No Asbestos Detected
75	Hallway Adjacent to Cafeteria Protective Wrap Over Fiberglass Pipe Insulation	Tan Fibrous	No Asbestos Detected
76	Hallway Adjacent to Cafeteria Mudded Elbows/Pipe Fitting	Gray Cementitious	3% Chrysotile
77	Hallway Adjacent to Cafeteria Mudded Elbows/Pipe Fitting	Gray Cementitious	5% Chrysotile
78	Hallway Adjacent to Cafeteria Mudded Elbows/Pipe Fitting	Gray Cementitious	4% Chrysotile
79	Hallway Adjacent to Cafeteria Red Fire Caulk	Red Caulking	No Asbestos Detected
80	Hallway by Room 25 and 26 Gray Caulk	Gray Caulking	No Asbestos Detected
81	Hallway by room 25 and 26 Red Caulking	Red Caulking	No Asbestos Detected
82	Hallway by Room 19 and 22 Lime Green Protective Cover Over Fiberglass Pipe Insulation	Green/Yellow Fibrous	No Asbestos Detected
83	Hallway by room 19 and 22 Protective Cover Over Fiberglass Pipe Insulation	Off-White Fibrous	No Asbestos Detected
84	Hallway by Room 19 and 22 Red Fire Caulk	Red Caulking	No Asbestos Detected
85	Hallway Between Room 17 and 20 Lime Green Protective Cover Over Fiberglass Insulation	Green/Yellow Fibrous	No Asbestos Detected
86	Hallway Between Rooms 17 and 20 Protective Wrap on Fiberglass Pipe Insulation	Off-White Fibrous	No Asbestos Detected
87	Hallway Between Rooms 17 and 20 Gray Caulking/Sealer	Gray Caulking	No Asbestos Detected
88	Room 20 Behind Wood Paneling by Entrance Door Roof Drain Elbow/Bowl Insulations	Gray Cementitious	3% Chrysotile
89	Room 20 Behind Wood Paneling by Entrance Door Roof Drain Elbow/Bowl Insulations	Gray Cementitious	2% Chrysotile



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Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
90	Room 20 Behind Wood Paneling by Entrance Door Roof Drain Elbow/Bowl Insulations	Gray Cementitious	5% Chrysotile
91	Main Office Conference Room Pipe Sealant	Black Rubbery	No Asbestos Detected
92	Main Office Conference Room Pipe Sealant	Black Rubbery	No Asbestos Detected
93	Main Office Conference Room Pipe Sealant	Black Rubbery	No Asbestos Detected
94	Main Lobby Vestibule Area Cementitious Door Frame Sealer at Brick Wall	Gray Cementitious	No Asbestos Detected
95	Main Lobby Vestibule Area Cementitious Door Frame Sealer at Interior Brick	Gray Cementitious	No Asbestos Detected
96	Main Lobby Vestibule Area 2 x 4 Lay in Ceiling Tile	Tan Fibrous	No Asbestos Detected
97	Main Lobby Vestibule Area Black Cementitious Sealer Along the Edge of the Flagstone Floor	Dark Gray/Black Cementitious	No Asbestos Detected
98	Main Lobby Vestibule Area Black Cementitious Sealer Along the Edge of the Flagstone Floor	Dark Gray/Black Cementitious	No Asbestos Detected
99	Main Lobby Vestibule Area Black Cementitious Sealer Along the Edge of the Flagstone Floor	Dark Gray/Black Cementitious	No Asbestos Detected
100	Main Lobby Vestibule Flagstone Flooring Cement	Gray Cementitious	No Asbestos Detected
101	Main Lobby Vestibule Flagstone Flooring Cement	Gray Cementitious	No Asbestos Detected
102	Main Lobby Vestibule Flagstone Flooring Cement	Gray Cementitious	No Asbestos Detected
103	Main Lobby Vestibule Flagstone with Top Clear Shiny Protective Coating	Gray Cementitious	No Asbestos Detected
104	Main Lobby Vestibule Flagstone with Top Clear Shiny Protective Coating	Gray Cementitious	No Asbestos Detected
105	Main Lobby Vestibule Flagstone with Top Clear Shiny Protective Coating	Gray Cementitious	No Asbestos Detected
106	Main Lobby Vestibule Exterior Plaster Overhang, Rough Coat	Light Gray Cementitious	No Asbestos Detected
107	Main Lobby Vestibule Exterior Plaster Overhang, Rough Coat	Light Gray Cementitious	No Asbestos Detected
108	Main Lobby Vestibule Exterior Plaster Overhang, Rough Coat	Light Gray Cementitious	No Asbestos Detected
109	Main Lobby Vestibule Exterior Plaster Overhang, Skim Coat	White Plaster	No Asbestos Detected
110	Main Lobby Vestibule Exterior Plaster Overhang, Skim Coat	White Plaster	No Asbestos Detected
111	Main Vestibule Lobby Exterior Overhang, Rough Plaster Coat	Light Gray Cementitious	No Asbestos Detected
112	Main Vestibule Lobby Black Door Frame Caulk Applied to Brick	Black Caulking	No Asbestos Detected
113	Main Vestibule Lobby Black Door Frame Caulk Applied to Brick	Black Caulking	No Asbestos Detected



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Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
114	Main Vestibule Lobby Gypsum Wallboard Above Doors	Light Gray Cementitious	No Asbestos Detected
115	Main Vestibule Lobby Gypsum Wallboard Above Doors	Light Gray Cementitious	No Asbestos Detected
116	Main Vestibule Lobby Door Caulking Around the Window Door Panes	Brown/Tan Caulking	No Asbestos Detected
117	Main Vestibule Lobby Door Caulking Around the Window Door Panes	Brown/Tan Caulking	No Asbestos Detected
118	Main Vestibule Lobby Exterior Overhang White Caulk where the Plaster Ceiling Meets Exterior Brick	White Caulking	No Asbestos Detected
119	Main Lobby Vestibule Exterior Plaster Overhand White Caulk in between the Ceiling Panels	White Caulking	No Asbestos Detected
120	Main Lobby Vestibule Cement Joints in between the Flagstone Pieces	Dark Gray Cementitious	No Asbestos Detected
121	Main Lobby Vestibule Cement Joints in between the Flagstone Pieces	Dark Gray Cementitious	No Asbestos Detected
122	Main Lobby Vestibule Cement Joints in between the Flagstone Pieces	Dark Gray Cementitious	No Asbestos Detected
123	Main Lobby Vestibule Mortar Joints In between the Limestone Columns Exterior	Dark Gray Cementitious	No Asbestos Detected
124	Main Lobby Vestibule Mortar Joints In between the Limestone Columns Exterior	Dark Gray Cementitious	No Asbestos Detected
125	Main Lobby Vestibule Mortar Joints In between the Limestone Columns Exterior	Light Gray Cementitious	No Asbestos Detected
126	Main Lobby Vestibule White Caulk where the Limestone Columns meet the Exterior Brick at the Overhang	Off-White Caulking	No Asbestos Detected
127	Main Lobby Vestibule White Caulk where the Limestone Columns meet the Exterior Brick at the Overhang	Off-White Caulking	No Asbestos Detected
128	Main Lobby Vestibule White Caulk where the Limestone Columns meet the Exterior Brick at the Overhang	Off-White Caulking	No Asbestos Detected
129	Main Lobby Vestibule Brick Mortar	Dark Gray Cementitious	No Asbestos Detected
130	Main Lobby Vestibule Brick Mortar	Dark Gray Cementitious	No Asbestos Detected
131	Main Lobby Vestibule Exterior Door Frame Caulk	Dark Brown Caulking	No Asbestos Detected
132	Main Lobby Vestibule Exterior Door Frame Caulk	Brown Caulking	No Asbestos Detected
133	Main Lobby Vestibule Door Frame Filter Side Window Caulk	Black Caulking	No Asbestos Detected
134	Main Lobby Vestibule Door Frame Filter Side Window Caulk	Black Caulking	No Asbestos Detected

Accredited for Bulk Asbestos Analysis by AIHA-LAP #100120 CT DPH #PH-0571 MA-DLS #AA000245 RI-PLM00148

Estimated Limit of Reporting: <1% asbestos.

The samples arrived in acceptable condition. The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the samples tested. There exists a degree of variability for the results due to the inherent uncertainty within the analytical method. The concentration of asbestos is determined by visual estimation. This report must NOT be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.



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470 Murdock Avenue, Meriden, Connecticut 06450

Phone: (203) 238-4846 Fax: (203) 238-4243

Analyst: Maylani Velazquez
Maylani Velazquez

Date: 1/15/2024

Technical Manager: Lawrence Cannon
Lawrence Cannon

Date: 1/15/2024

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT				Project/Job#: IH-23-1880				Collected by/Date: L.A. & D.F. / 12-27-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s):				Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining				Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116								
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, 1 m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Types(s) & percent of (non-fibrous) materials present	Total % Asbestos
1	Classroom 1 - Wallboard	21	Y	gray Cementitious	Y		0.01 / 0.05						29% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
2	Classroom 1 - Wall Joint Compound	21	Y	white Comp	Y								59% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
3	Classroom 1 - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								51% Cellulose 15% Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD
4	Hall Between Classrooms 1 & 2 - Wallboard	21	Y	light gray Cementitious	Y								39% Cellulose Fiberglass	Incomplete Extinction Isotropic	99% Particulate	NAD
5	Hall Between Classrooms 1 & 2 - Wall Joint Compound	21	Y	white Comp	Y								79% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
6	Hall Between Classrooms 1 & 2 - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								31% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	87% Particulate	NAD
7	Classroom 4 - Wallboard	21	Y	gray Fibrous	Y								29% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
8	Classroom 4 - Wall Joint Compound	21	Y	white Comp	Y								59% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel: Reference Slide: 1866-Chny	Relinquished by: Dominick Fiore	Date: 12/29/2023	Analyzed by: Maayan Velazquez	Date: 1/9/2024	Additional Comments:
QC: 4, 14, 24, 34, 44, 58, 64 77, 88, 94, 104, 114, 124, 134	Received by: Thuy Chamberland	Date: 12/29/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148



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470 Murdock Avenue
Meriden, CT 06450

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT				Project/Job#: IH-23-1880				Collected by/Date: L.A. & D.F. / 12-27-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s):				Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining				Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116								
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, 1, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
9	Classroom 4 - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
10	Classroom 5 - Wallboard	21	Y	1. Gray Cementitious	Y		0.01/0.05						2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
11	Classroom 5 - Wall Joint Compound	21	Y	White Comp	Y								7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
12	Classroom 5 - Fiberboard	21	Y	Brown Fibrous	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
13	Classroom 5 - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
14	Classroom 7 - 1st Layer Wallboard	21	Y	1. Gray Cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
15	Classroom 7 - 2nd Layer Wallboard	21	Y	1. Gray Cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
16	Classroom 7 - Wall Joint Compound	21	Y	off-white Comp	Y								6% Cellulose Fiberglass	Incomplete Extinction Isotropic	94% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Maykai Velazquez	1/18/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148



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Meriden, CT 06450

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT	Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12-27-23	Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):			

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) / Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
17	Classroom 7 - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								3% Cellulose 5% Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
18	Hallway by Room 7 - Fiberboard	21	Y	Brown Fibrous	Y		0.01/0.05						10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
19	Classroom 11 - Fiberboard	21	Y	Gray Fibrous	Y								10% Cellulose 16% Fiberglass	Incomplete Extinction Isotropic	75% Particulate	NAD
20	Classroom 11 - 2'x2' Ceiling Tile	21	Y	Brown Fibrous	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
21	Art Room - Wallboard	21	Y	1. gray Cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
22	Art Room - Wall Joint Compound	21	Y	white Comp	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
23	Art Room - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								5% Cellulose 20% Fiberglass	Incomplete Extinction Isotropic	75% Particulate	NAD
24	Hallway by Art Room - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								10% Cellulose 15% Fiberglass	Incomplete Extinction Isotropic	75% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Maylene Velazquez	1/8/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148



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Meriden, CT 06450

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT	Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12-27-23	Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days
Specific Location(s):			Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
25	Music Room - Wallboard	21	Y	light gray cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate 98%	MAO
26	Music Room - Wall Joint Compound	21	Y	white comp	Y		0.01/0.05						5% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate 95%	MAO
27	Music Room - 2'x2' Ceiling Tile	21	Y	tan fibrous	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate 85%	MAO
28	Classroom 26 - Wallboard	21	Y	light gray cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate 97%	MAO
29	Classroom 26 - Wall Joint Compound	21	Y	white comp	Y								6% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate 94%	MAO
30	Classroom 26 - 2'x2' Ceiling Tile	21	Y	tan fibrous	Y								10% Cellulose 20% Fiberglass	Incomplete Extinction Isotropic	Particulate 70%	MAO
31	Hallway by Classroom 26 - Wallboard	21	Y	gray cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate 98%	MAO
32	Hallway by Classroom 26 - Wall Joint Compound	21	Y	white comp	Y								4% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate 96%	MAO

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Maulani Velamangy	1/8/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address:		Project/Job#:		Collected by/Date:		Turn Around Time:										
Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT		IH-23-1880		L.A. & D.F. / 12-27-23		<input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116										
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, 1, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non- fibrous) materials present	Total % Asbestos
33	Hallway by Classroom 26 - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								3% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	87% Particulate	NAD
34	Classroom 23 - Wallboard	21	Y	1. gray Cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
35	Classroom 23 - Wall Joint Compound	21	Y	white Comp	Y		0.01/0.05						5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
36	Classroom 23 - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								4% Cellulose 15% Fiberglass	Incomplete Extinction Isotropic	81% Particulate	NAD
37	Hallway 155 - Wallboard	21	Y	gray Cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
38	Hallway 155 - Wall Joint Compound	21	Y	white Comp	Y								7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
39	Hallway 155 - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								5% Cellulose 20% Fiberglass	Incomplete Extinction Isotropic	75% Particulate	NAD
40	Classroom 21 - Wallboard	21	Y	1. gray Cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Marykai Velazquez	1/9/2023	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/23			

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT	Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12-27-23	Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):			

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, b)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
41	Classroom 21-2x2 Ceiling tile	21	Y	Tan Fibrous	Y								49% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	86% Particulate	NAD
42	Classroom 21 - wall Joint Compound	21	Y	White Comp	Y								79% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
43	Classroom 17 - Wallboard	21	Y	gray cementitious	Y		0.01/0.05						3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
44	Classroom 17 - Wall Joint Compound	21	Y	White Comp	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
45	Classroom 17 - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								5% Cellulose 20% Fiberglass	Incomplete Extinction Isotropic	75% Particulate	NAD
46	Hallway between Classroom 18 & 21 - Fiberboard	21	Y	Brown Fibrous	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
47	Hallway between Classroom 16 & 20 - Fiberboard	21	Y	Brown Fibrous	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
48	Hallway between Classroom 16 & 20 - 2'x2' Ceiling tile	21	Y	gray Fibrous	Y								20% Cellulose Fiberglass	Incomplete Extinction Isotropic	80% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Marylani Velamangam	1/10/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148



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470 Murdock Avenue
Meriden, CT 06450

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT				Project/Job#: IH-23-1880				Collected by/Date: L.A. & D.F. / 12-27-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s):												Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116				
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, 1, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
49	Classroom 20 - Wallboard	21	Y	1. gray cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
50	Classroom 20 - Wall Joint Compound	21	Y	off-white comp	Y		0.01/0.05						4% Cellulose Fiberglass	Incomplete Extinction Isotropic	96% Particulate	NAD
51	Classroom 20 - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
52	Office Reception Room - Wallboard	21	Y	1. gray cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
53	Office Reception Room - Wall Joint Compound	21	Y	white comp	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
54	Office Reception Room - 2'x2' Ceiling Tile	21	Y	Tan Fibrous	Y								5% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
													Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Maulani Velazquez	1/10/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT				Project/Job#: IH-23-1880				Collected by/Date: L.A. & D.F. / 12-28-23				Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days				
Specific Location(s): Walls and ceilings												Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116				
Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
55	Room 1 gray fire caulk where duct goes through gypsum wallboard	21	Y	D. gray caulking	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
56	Room 1 gray fire caulk where duct goes through gypsum wallboard	21	Y	D. gray caulking	Y		0.101/0.105						5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
57	Hallway above lockers by Room 2-red fire caulk	21	Y	D. Red caulking	Y								8% Cellulose Fiberglass	Incomplete Extinction Isotropic	92% Particulate	NAD
58	Hallway above lockers by Room 2-Cement panel (transite)	21	Y	l. gray Transite	Y	many	1.542/1.551	11: magenta L. Blue	P + N	1			3% Cellulose Fiberglass	Incomplete Extinction Isotropic	81% Particulate	10% Chry
59	Hallway above lockers by Room 2-Cement panel (transite)	21	Y	l. gray Transite	Y	many	1.541/1.557	11: magenta L. Blue	P + N	1			2% Cellulose Fiberglass	Incomplete Extinction Isotropic	91% Particulate	7% Chry
60	Hallway above lockers by Room 2-Cement panel (transite)	21	Y	l. gray Transite	Y	many	1.540/1.556	11: magenta L. Blue	P + N	1			3% Cellulose Fiberglass	Incomplete Extinction Isotropic	92% Particulate	5% Chry
61	Hallway above lockers by room 2-gray caulk/duct sealer	21	Y	D. gray caulking	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
62	Hallway by Rooms 3 & 5-pipe insulation cover over fiberglass pipe	21	Y	Black Fibrous	Y								10% Cellulose 15% Fiberglass	Incomplete Extinction Isotropic	75% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments: Stop at first positive for sample set 58-60
Reference Slide:	Dominick Fiore	12/29/2023	Marylani Velamangum	11/10/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148



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Meriden, CT 06450

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT	Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12-28-23	Turn Around Time: 24hr 11 3-5 Days Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):			

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
63	Hallway between Rooms 3 & 5-Lime green protective pipe cover	21	Y	Green/Yellow Fibrous	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
64	Above hallway window Room 6-red fire caulk	21	Y	Red Caulking	Y		0.01/0.05						7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
65	Hallway between Rooms 8 & 9-protective cover over fiberglass pipe insulation	21	Y	Black/Yellow Fibrous	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
66	Hallway between Rooms 8 & 9-Lime green protective pipe cover	21	Y	Green/Yellow Fibrous	Y								7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
67	Hallway between Rooms 8 & 9-Red fire caulk	21	Y	Red Caulking	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
68	Hallway between Rooms 11 & 12-protective cover over fiberglass pipe insulation	21	Y	Black/Yellow Fibrous	Y								15% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	75% Particulate	NAD
69	Hallway between Room 11 & 12-Lime green protective cover over fiberglass pipe insulation	21	Y	Green/Yellow Fibrous	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
70	Art Room-back of right storage tar and debris above lay in ceiling tile	21	Y	Black/Brown Tar/Fibrous	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Maurani Velamang	1/10/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148



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470 Murdock Avenue

Meriden, CT 06450

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT	Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12.28.23	Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):			

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non- fibrous) materials present	Total % Asbestos
71	Art Room back right storage-tar on debris above lay in ceiling tile	21	Y	Black Tar	Y								7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
72	Art Room back right storage-tar on debris above lay in ceiling tile	21	Y	Black Tar	Y		0.01/0.05						5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
73	Hallway adjacent to cafeteria-lime green protective coating over fiberglass pipe insulation	21	Y	Green/Yellow Fibrous	Y								6% Cellulose Fiberglass	Incomplete Extinction Isotropic	94% Particulate	NAD
74	Hallway adjacent to cafeteria- protective wrap over fiberglass pipe insulation	21	Y	Tan Fibrous	Y								4% Cellulose 10% Fiberglass	Incomplete Extinction Isotropic	86% Particulate	NAD
75	Hallway adjacent to cafeteria- protective wrap over fiberglass pipe insulation	21	Y	Tan Fibrous	Y								10% Cellulose 5% Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
76	Hallway adjacent to cafeteria-mudded elbows/pipe fittings	21	Y	gray cementitious	Y	wavy	1.546/ 1.554	11-magenta 1-blue	P	+	N	I	2% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	3% Chrys
77	Hallway adjacent to cafeteria-mudded elbows/pipe fittings	21	Y	gray cementitious	Y	wavy	1.545/ 1.558	11-magenta 1-blue	P	+	N	I	4% Cellulose Fiberglass	Incomplete Extinction Isotropic	91% Particulate	5% Chrys
78	Hallway adjacent to cafeteria-mudded elbows/pipe fittings	21	Y	gray cementitious	Y	wavy	1.543/ 1.556	11-magenta 1-blue	P	+	N	I	5% Cellulose Fiberglass	Incomplete Extinction Isotropic	91% Particulate	4% Chrys

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Makai Velazquez	1/10/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148



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Meriden, CT 06450

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT	Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12.28.23	Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 1-3 Days <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):			

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
79	Hallway adjacent to cafeteria-red fire caulk	21	Y	Red caulking	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
80	Hallway by Room 25 & 26-gray caulk	21	Y	Gray caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
81	Hallway by Room 25 & 26-red caulk	21	Y	Red caulking	Y		0.01/0.05						3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
82	Hallway by Room 19 & 22-Lime green protective over fiberglass pipe insulation	21	Y	green/yellow Fibrow	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
83	Hallway by Room 19 & 22-protective over fiberglass pipe insulation	21	Y	off-white Fibrow	Y								6% Cellulose Fiberglass	Incomplete Extinction Isotropic	94% Particulate	NAD
84	Hallway by Room 19 & 22- red fire caulk	21	Y	Red caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
85	Hallway between Rooms 17 & 20-Lime green protective cover over fiberglass pipe insulation	21	Y	green/yellow Fibrow	Y								15% Cellulose Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
86	Hallway between Rooms 17 & 20- Protective wrap on fiberglass pipe insulation	21	Y	off-white Fibrow	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Marylani Lagunas	1/10/2023	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT		Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12-28-23	Turn Around Time: 24hr 11 3-5 Days Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):				

Sample #	Sample Location	Temperature (°C)	Homogeneous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
87	Hallway between Rooms 17 & 20-gray caulk/sealer	21	Y	Gray Caulking	Y								29% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
88	Room 20 behind wood paneling by entrance door-roof drain elbow/bowl insulation	21	Y	Gray Cementitious	Y	wavy	1.541 / 1.551	11 magenta L: Blue	P + N	I			49% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	37% Chy
89	Room 20 behind wood paneling by entrance door-roof drain elbow/bowl insulation	21	Y	Gray Cementitious	Y	wavy	1.549 / 1.556	11 magenta L: Blue	P + N	I			6% Cellulose Fiberglass	Incomplete Extinction Isotropic	92% Particulate	29% Chy
90	Room 20 behind wood paneling by entrance door-roof drain elbow/bowl insulation	21	Y	Gray Cementitious	Y	wavy							59% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	57% Chy
91	Main office conference room-Pipe sealant	21	Y	Black Rubbery	Y								39% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
92	Main office conference room-Pipe sealant	21	Y	Black Rubbery	Y								29% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
93	Main office conference room-Pipe sealant	21	Y	Black Rubbery	Y								59% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
94	Main Lobby Vestibule Area-Cementitious door frame sealer at brick wall	21	Y	Gray Cementitious	Y								79% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Maulani Velamuri	1/10/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148



Cleaner environment. Safer workplaces.

470 Murdock Avenue

Meriden, CT 06450

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT		Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12-28-23	Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 1-3 Days <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):				

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non- fibrous) materials present	Total % Asbestos
95	Main Labby Vestibule Area- Cementitious door frame sealer at interior brick	21	Y	gray Cementitious	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
96	Main Labby Vestibule Area-2x4 lay in ceiling tile	21	Y	Tan Fibrous	Y		0.01/ 0.05						5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
97	Main Lobby Vestibule area-black cementitious sealer along the edge of the flagstone floor	21	Y	D. gray / Black Cementitious	Y								8% Cellulose Fiberglass	Incomplete Extinction Isotropic	92% Particulate	NAD
98	Main Lobby Vestibule area-black cementitious sealer along the edge of the flagstone floor	21	Y	D. gray / Black Cementitious	Y								9% Cellulose Fiberglass	Incomplete Extinction Isotropic	91% Particulate	NAD
99	Main Lobby Vestibule area-black cementitious sealer along the edge of the flagstone floor	21	Y	D. gray / Black Cementitious	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
100	Main Labby Vestibule-Flagstone flooring cement	21	Y	gray Cementitious	Y								4% Cellulose Fiberglass	Incomplete Extinction Isotropic	96% Particulate	NAD
101	Main Labby Vestibule-Flagstone flooring cement	21	Y	gray Cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
102	Main Labby Vestibule-Flagstone flooring cement	21	Y	gray Cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Marylani Velampuri	1/10/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148



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Meriden, CT 06450

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT	Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12.28.23	Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 1-3 Days <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):			Sampling Method:

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N) Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
103	Main Lobby Vestibule-Flagstone with top clear shiny protective coating	21	Y	gray Cementitious	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
104	Main Lobby Vestibule-Flagstone with top clear shiny protective coating	21	Y	gray Cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
105	Main Lobby Vestibule-Flagstone with top clear shiny protective coating	21	Y	gray Cementitious	Y		0.01/0.05						3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
106	Main Lobby Vestibule-Exterior plaster overhang-rough coat	21	Y	1. gray Cementitious	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
107	Main Lobby Vestibule-Exterior plaster overhang-rough coat	21	Y	1. gray Cementitious	Y								7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
108	Main Lobby Vestibule-Exterior plaster overhang-rough coat	44	Y	1. gray Cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
109	Main Lobby Vestibule-Exterior plaster overhang-skim coat	21	Y	white plaster	Y								8% Cellulose Fiberglass	Incomplete Extinction Isotropic	92% Particulate	NAD
110	Main Lobby Vestibule-Exterior plaster overhang-skim coat	21	Y	white plaster	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	<i>Maureen Valenzuela</i>	1/10/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	<i>Thuy Chamberland</i>	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT		Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12.28.23	Turn Around Time: 24hr 11 3-5 Days Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):				

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
111	Main Vestibule Lobby- Exterior overhang-plaster Rough coat	21	Y	light gray cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
112	Main Vestibule Lobby-Black door frame caulk applied to brick	21	Y	Black caulking	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
113	Main Vestibule Lobby-Black door frame caulk applied to brick	21	Y	Black caulking	Y		0.01 / 2.105						5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
114	Main Vestibule Lobby-Gypsum wallboard above doors	21	Y	light gray cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
115	Main Vestibule Lobby-Gypsum wallboard above doors	21	Y	light gray cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
116	Main Vestibule Lobby Doors-caulking round the window door panes	21	Y	Brown/tan caulking	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD
117	Main Vestibule Lobby Doors-caulking round the window door panes	21	Y	Brown/tan caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
118	Main Vestibule Lobby exterior overhang-White caulk where the plaster ceiling meets exterior brick	21	Y	white caulking	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Marylain Velazquez	1/11/2023	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT		Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12.28.23	Turn Around Time: 24hr 3-5 Days Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):				

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
119	Main Lobby vestibule-Exterior plaster overhand-White caulk in between the ceiling panels	21	Y	White Caulking	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	NAD
120	Main Lobby Vestibule-Cement joints in between the flagstone pieces	21	Y	D. Gray Cementitious	Y								27% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	NAD
121	Main Lobby Vestibule-Cement joints in between the flagstone pieces	21	Y	D. Gray Cementitious	Y								59% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	NAD
122	Main Lobby Vestibule-Cement joints in between the flagstone pieces	21	Y	D. Gray Cementitious	Y								49% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	NAD
123	Main Lobby Vestibule-Mortar joints in between the limestone columns-exterior	21	Y	D. Gray Cementitious	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	NAD
124	Main Lobby Vestibule-Mortar joints in between the limestone columns-exterior	21	Y	D. Gray Cementitious	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	NAD
125	Main Lobby Vestibule-Mortar joints in between the limestone columns-exterior	21	Y	T. Gray Cementitious	Y								99% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	NAD
126	Main Lobby Vestibule-White caulk where the limestone columns meet the exterior brick at the overhang	21	Y	Off-white Caulking	Y								10% Cellulose Fiberglass	Incomplete Extinction Isotropic	Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Marylani Velazquez	1/11/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26991

Tel: (203) 238-4846

Fax: (203) 238-4243

Company Name and Address: Woodard and Curran / North Stratfield Elementary School - 190 Putting Green Road, Fairfield, CT		Project/Job#: IH-23-1880	Collected by/Date: L.A. & D.F. / 12.28.23	Turn Around Time: <input checked="" type="checkbox"/> 24hr <input type="checkbox"/> 3-5 Days Sampling Method: <input type="checkbox"/> 40 CFR Part 763.86 <input type="checkbox"/> 20 CFR Part 1926.1101 <input type="checkbox"/> EPA #600/R-93/116
Specific Location(s):				

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
127	Main Lobby Vestibule-White caulk where the limestone columns meet the exterior brick at the overhang	21	Y	off-white caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
128	Main Lobby Vestibule-White caulk where the limestone columns meet the exterior brick at the overhang	21	Y	off-white caulking	Y		0.01/0.05						3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
129	Main Lobby Vestibule-brick mortar	21	Y	D. gray cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
130	Main Lobby Vestibule-brick mortar	21	Y	D. gray cementitious	Y								7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
131	Main Lobby Vestibule-Exterior door frame caulk	21	Y	D. brown caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
132	Main Lobby Vestibule-Exterior door frame caulk	21	Y	Brown caulking	Y								4% Cellulose Fiberglass	Incomplete Extinction Isotropic	96% Particulate	NAD
133	Main Lobby Vestibule-Door frame filler side window caulk	21	Y	Black caulking	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
134	Main Lobby Vestibule-Door frame filler side window caulk	21	Y	Black caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	Dominick Fiore	12/29/2023	Marylani Velamangalam	1/10/2024	
QC:	Received by:	Date:	Approved by:	Date:	
	Thuy Chamberland	12/29/2023			

Accredited for Bulk Asbestos Analysis:

AIHA LAP #100120

CT DPH #PH-0571

MA-DLS #AA00245

RI-PLM00148

IV. SAMPLE LOCATION PLAN

NIC = ROOMS NOT IN INSPECTION SCOPE

APPENDIX B: LEAD PAINT REPORT – ENVIROMED SERVICES



LEAD INSPECTION REPORT
FOR
North Stratfield Elementary School
190 Putting Green Road
Fairfield, CT

PREPARED
FOR
Woodard & Curran
40 Shattuck Road, Suite 110
Andover, MA 01810

DD - DRAFT SUBMISSION

DATE OF INSPECTION
January 3, 2024

ENVIROMED PROJECT # IH-23-1880

470 MURDOCK AVE., MERIDEN, CT 06450
TELEPHONE (203) 238-4846 • FACSIMILE (203) 238-4243

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III. Lead Inspection Results	4
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I. Project Narrative

On January 3, 2024 EnviroMed Services Inc. performed a lead inspection using a Viken direct read pb200i XRF lead paint spectrum analyzer at North Stratfield School, 190 Putting Green Road, Fairfield, CT. The lead inspection focused primarily on structural steel in the school. Reinforcing steel needs to be welded to the existing structural steel in the school to support the installation of rooftop HVAC units. The secondary focus of the inspection was interior walls which need to be drilled through during renovations to support the installation of new pipe and conduit servicing the new HVAC system. The State of Connecticut Lead Regulations (19a-111-1(59)) deem paint to be a "toxic level" (actionable) when XRF reading is equal or greater than 1.00 milligrams per centimeter squared (mg/cm^2), or 0.50% by weight in dry form by flame atomic absorption spectrophotometer. Federal OSHA regulates the disturbance of paint containing any measurable level of lead. Lead Inspector Max Mauro (CT license #002313) performed the inspection, employed by EnviroMed Services (CT license #000897), the certified lead consultant.

Methodology

This inspection was performed using a Viken direct read pb200i XRF lead paint spectrum analyzer. The Federal Environmental Protection Agency (EPA) and State Health Department (CT DPH) regulations deem paint to be at a "toxic level" for an XRF reading that is equal or greater than 1.00 milligrams per centimeter squared (mg/cm^2). Federal OSHA regulates the disturbance of paint containing any measurable level of lead.

II. Summary of Findings

X-ray Fluorescence (XRF) Results

A total of 60 XRF readings were taken, with no XRF readings at or above 1.0 (mg/cm^2)

Section IV Lead Inspection Report includes:

- Sequential Report of all XRF readings taken during this inspection
- Detailed Report of XRF readings for each room location

III. Lead Inspection Results

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Woodard and Curran
 Inspection Date: 1/3/24
 Report Date: 1/17/2024 North Stratfield Elementary School
 Abatement Level: 1.0 IH-23-1880
 Report No. 12/28/23 4:45
 Total Readings:
 Job Started: 1/3/23 4:45
 Job Finished: 1/3/23 4:45

Read No	Room Name	Structure	Paint Condition	Paint Substrate Color	(mg/cm ²)	Mode
1	Calibration				1.08	TC
2	Calibration				1.04	TC
3	Calibration				1.02	TC
4	Library	Red I-Beam	Intact	Red	0.1	QM
5	Library	Black Joist	Intact	Black	0.4	QM
6	Library	Ceiling Deck	Intact	Red	0.2	QM
7	Outside Classroom 167	Joist	Intact	Black	0.2	QM
8	Outside Classroom 167	Drywall	Intact	Unpainted	0.1	QM
9	Outside Classroom 167	Red I-Beam	Intact	Red	0.1	QM
10	Outside Classroom 167	Black Pipe	Intact	Black	0.2	QM
11	Outside Classroom 167	Ceiling Deck	Intact	Gray	0.3	QM
12	Hallway Between 142-153	CMU	Intact	Concrete	0.2	QM
13	Hallway Between 142-153	Red I-Beam	Intact	Red	0.2	QM
14	Hallway Between 142-153	Gray Support	Intact	Gray	0.0	QM
15	Hallway Between 100 to toilet 137	Red I-Beam	Intact	Red	0.3	QM
16	Hallway Between 100 to toilet 137	CMU Wall above Ceiling	Intact	Tan	0.1	QM
17	Hallway Between 100 to toilet 137	Deck above Ceiling	Intact	Red	0.1	QM
18	Hallway Between 100 to toilet 137	Support I-Beam Above Ceiling	Intact	Red	0.3	QM
19	Hallway Between 100 to toilet 137	Smaller Red Support Structure above Ceiling	Intact	Red	0.4	QM
20	Special Ed 186	Black Joist	Intact	Black	0.3	QM
21	Special Ed 186	Ceiling Deck	Intact	Red	0.2	QM
22	Special Ed 186	Drywall No Paint	Intact	No Paint	0.1	QM
23	Special Ed 186	Lower Narrow Metal Deck	Intact	Red	0.2	QM
24	Library	Perimeter Red Beam	Intact	Red	0.1	QM
25	Library	Drywall Above Ceiling	Intact	Unpainted	0.2	QM
26	Outside Teachers Room	CMU Wall	Intact	Tan/White	0.1	QM
27	Outside Teachers Room	Red Perimeter Beam	Intact	Red	0.3	QM
28	Outside Teachers Room	Metal Decking	Intact	Red	0.1	QM
29	Outside Teachers Room	Support I-Beam	Intact	Red	0.1	QM
30	Outside Teachers Room	Green Support Pipe	Intact	Green	0.7	QM
31	Outside Teachers Room	HVAC	Intact	Gray	0.1	QM
32	Outside Teachers Room	Two Metal Supports	Intact	Gray	0.1	QM
33	Concrete Wall Above Ceiling After 127	CMU	Intact	Beige	0.1	QM
34	Roof Deck After 127	Perimeter Red Beam	Intact	Red	0.2	QM
35	Roof Deck After 127	Gray Support Pipes	Intact	Gray	0.3	QM

36	Roof Deck After 127	Roof Deck	Intact	Red	0.0	QM
37	After 127 Above Tile	Copper Pipes	Intact	Orange	0.2	QM
38	Support Beam After 127	I-Beam	Intact	Red	0.4	QM
39	After 127	Gray Unpainted HVAC	Intact	Gray	0.1	QM
40	Outside Auditorium/Cafe	Unpainted HVAC	Intact	Gray	0.3	QM
41	Below Deck Outside Café	Main Gray Support Structure	Intact	Gray	0.3	QM
42	Outside Café	Pink Drywall-like Material	Intact	Pink	0.2	QM
43	Outside Cafe	Red Deck	Intact	Red	0.2	QM
44	Outside Cafe	Red Perimeter I-Beam	Intact	Red	0.4	QM
45	Outside Cafe	CMU	Intact	Tan	0.3	QM
46	Outside Cafe	Black Pipe	Intact	Black	0.3	QM
47	Outside Cafe	Red I-Beam Support Deck	Intact	Red	0.2	QM
48	Outside Cafe	Additional Gray Support Structure	Intact	Gray	0.3	QM
49	Close To Café	Storage Masonry Wall	Intact	Pink/White	0.1	QM
50	Close To Cafe	Storage Masonry Wall	Intact	Pink/White	0.3	QM
51	Main Office Entrance Vestibule	Perimeter Metal	Intact	Red	0.1	QM
52	Main Office Entrance Vestibule	Joist	Intact	Black	0.3	QM
53	Main Office Entrance Vestibule	Deck Structure	Intact	Red	0.1	QM
54	Main Office Entrance Vestibule	I-Beam Support	Intact	Red	0.3	QM
55	Main Office Entrance Vestibule	CMU/Concrete Wall	Intact	Tan	0.2	QM
56	Main Office Entrance Vestibule	Pipe Support	Intact	Black	0.1	QM
57	Hallway Between 100 to toilet 137	Black Support Pipe	Intact	Black	0.2	QM
58	Hallway Between 100 to toilet 137	Gray Support Pipe	Intact	Gray	0.2	QM
59	Hallway Between 142-153	Ceiling Deck	Intact	Red	0.2	QM
60	Hallway Between 142-153	HVAC	Intact	Gray	0.0	QM
61	Kindergarten 153-	Black Joist	Intact	Black	0.2	QM
62	Kindergarten 153-	Ceiling Deck	Intact	Gray	0.1	QM
63	Kindergarten 153-	Black Support Pipe	Intact	Black	0.3	QM

IV. Photographs



Outside cafe



Vestibule







Outside teachers grey metal deck

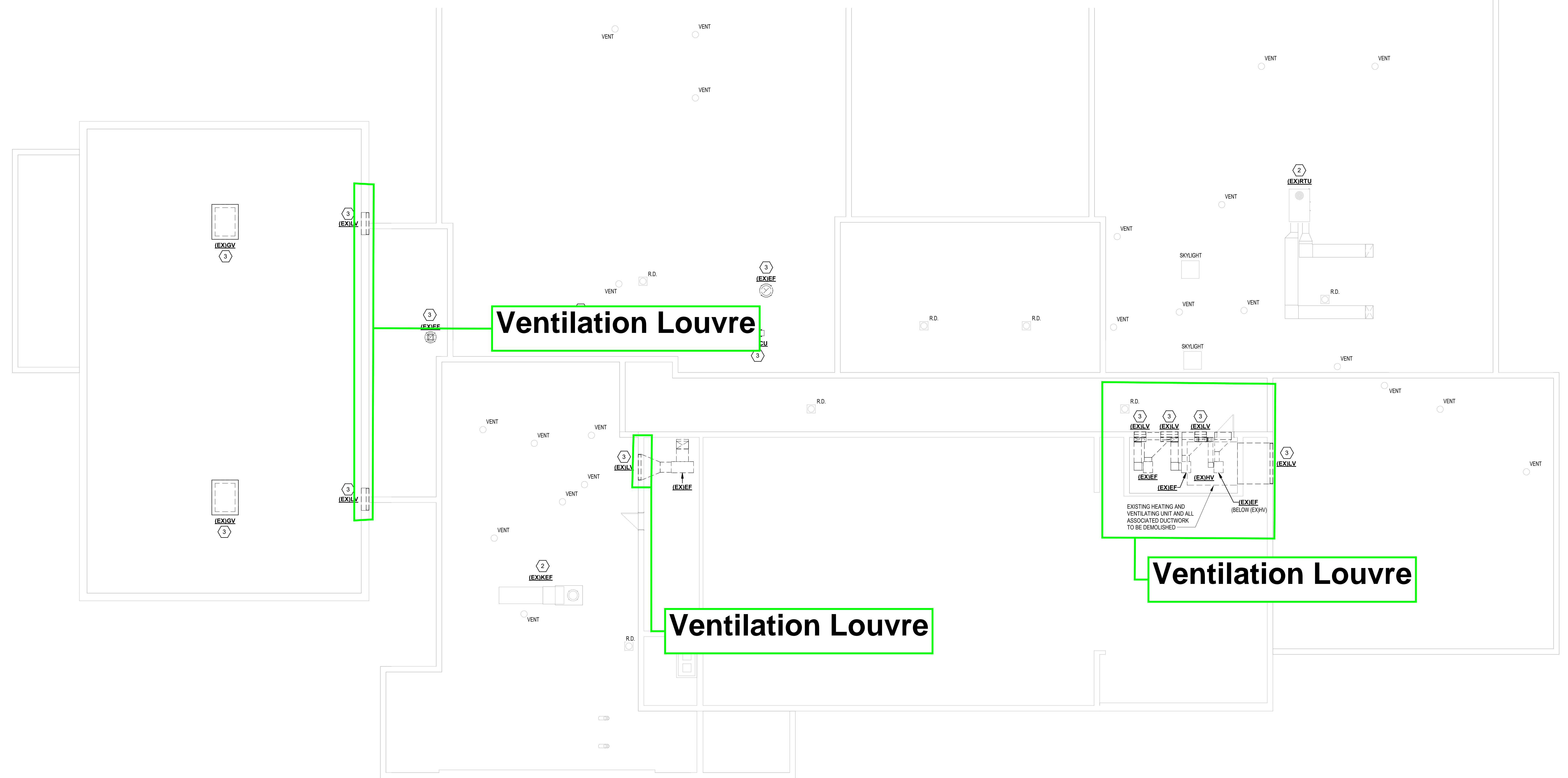
APPENDIX C: SUMMARY OF OBSERVED SUSPECT PCB-CONTAINING BUILDING MATERIALS

Appendix C
Summary of Observed Suspect PCB-Containing Building Materials
North Stratfield Elementary School - Fairfield Public Schools

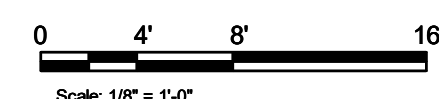
Construction Feature	Observed Suspect PCB-Containing Building Materials	Material Location	Physical Description	Asbestos Classification	Preliminary Management Plan
Main Entry Vestibule	Window and Door Frame Caulking	Interior and Exterior metal frame to brick joints	Black, flexible, soft, tacky, covered in purple paint	Non-ACM	Caulking sealants to be assumed ≥ 50 ppm PCBs; Caulking, doors frames, components, and substrate materials designated for removal are to be removed in their entirety for off-site disposal as an assumed PCB Bulk Product Waste
Painted CMU Block Walls	White or off-white painted block walls	CMU block walls in hallways, classrooms, and other spaces throughout the building	Not suspect	Not suspect	Where disturbed, paint and painted CMU block materials to be managed for removal and off-site disposal as an assumed PCB Bulk Product Waste.
Structural Steel and Roof Decking	Painted red	Overhead areas throughout the building	Red paint	Not suspect	Where disturbed, paint and painted steel to be managed for off-site disposal as an assumed PCB Bulk Product Waste including waste materials generated as part of welding or grinding.
Door Caulking	Door Frame Caulking	Metal frames to brick	Black, soft flexbile	Non-ACM	Caulking to be assumed ≥ 50 ppm PCBs; caulking, door frames and substrate materials designated for removal are to be removed in their entirety for off-site disposal as an assumed PCB Bulk Product Waste
Ventilation Louver Caulking	Louver frame caulking	Metal frames to brick	Gray, hard, flexible	Non-ACM	Caulking sealants to be assumed ≥ 50 ppm PCBs; Caulking,louver frames, components, and substrate materials designated for removal are to be removed in their entirety for off-site disposal as an assumed PCB Bulk Product Waste
Other Observed Materials - not suspect based on date of construction					
Ventilation Duct Work	Metal to Metal Joint Sealants	Metal to metal	Grey	Non-ACM	Based on reported date of ventilation system installation (1990s); sealants are not suspect for PCBs; materials to be removed as general C&D.
Rooftop Sealants	Caulking at flashing	Roof to metal joints	Grey, soft, flexible	Non-ACM	Based on date of roof construction (1996 and 200); caulking sealants are not suspect for PCBs

Notes:
Suspect PCB Containing building materials antiicipated to be disturbed based on demolition drawings provided and within accessible potions of the school during site visits on December 16 and 28, 2023.

Appendix C - Summary of Observed Suspect PCB-Containing Building Materials



1 PARTIAL ROOF MECHANICAL DEMOLITION PLAN - PART A

$$1/8'' = 1'-0''$$


DEMOLITION PLAN GENERAL NOTES:

- [illegible]

DEMOLITION PLAN KEY NOTES:

- 1 ALL EXISTING H/VAC SYSTEMS AND APPURTENANCES THEREOF IN THIS AREA TO REMAIN, INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, DUCTWORK, PIPING, CONTROLS, DAMPERS, WIRING, AIR TERMINALS, HANGERS, SUPPORTS, ETC. AND ANY
- 2 **Notes:**
- 3 1. Caulking on ventilation
- 4 2. Paint on structural
- 5 building; materials ide
- 6 3. Sealants associated
- 7 PCBs based on report
- 8 4. Sealants associated
- 9 installation (1995/199

Notes:

1. Caulking on ventilation louver frames to facade joints identified as suspect PCB-containing building material.
2. Paint on structural steel components and metal roof decking observed in overhead areas throughout the building; materials identified as suspect PCB-containing building material based on the date of construction.
3. Sealants associated with the roof (flashing sealants, sealants at penetration points), not considered suspect for PCBs based on reported date on installation (1996 and 2000).
4. Sealants associated with ventilation ductwork not considered suspect for PCBs based on reported date on installation (1995/1996).

KEY PLAN

B+C Companies
Architecture
Engineering
Environmental
Land Surveying

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

NORTH STRATFIELD ELEMENTARY SCHOOL
190 PUTTING GREEN RD,
FAIRFIELD, CT 06825

REVISIONS	DESCRIPTION
-----------	-------------

NO DATE

Designed:	RF/EK
Drawn:	EK
Reviewed:	JWRF
Project No.:	2300053
Date:	09/29/2023
Issued for:	

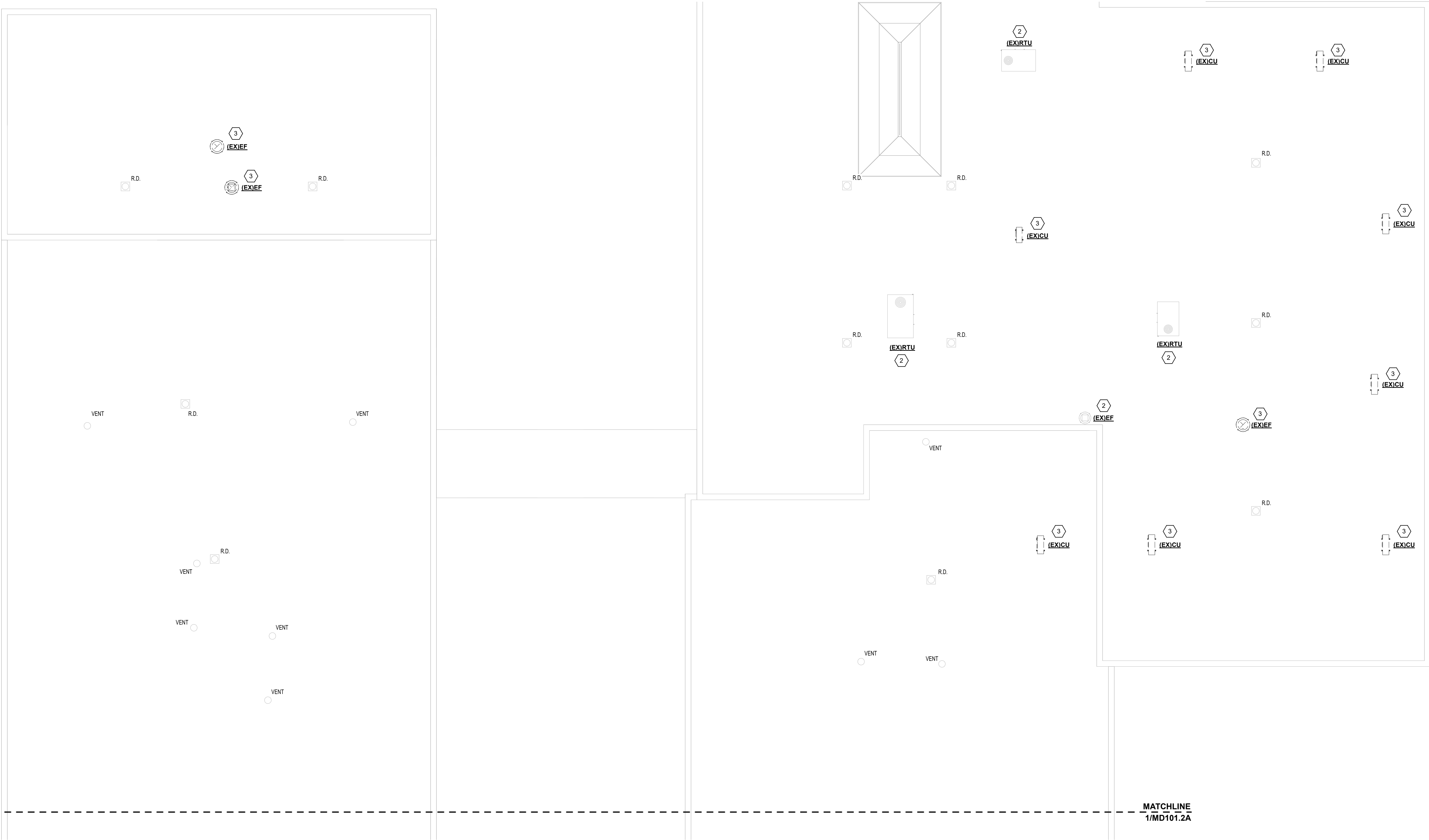
**95% CONSTRUCTION
DOCUMENTS**

Title:
PARTIAL ROOF
MECHANICAL DEMOLITION
PLAN - PART A

Sheet No. _____

MD101.2A

Appendix C - Summary of Observed Suspect PCB-Containing Building Materials



1 PARTIAL ROOF MECHANICAL DEMOLITION PLAN - PART B
1/8" = 1'-0"
0 4' 8' 16'
Scale: 1/8" = 1'-0"

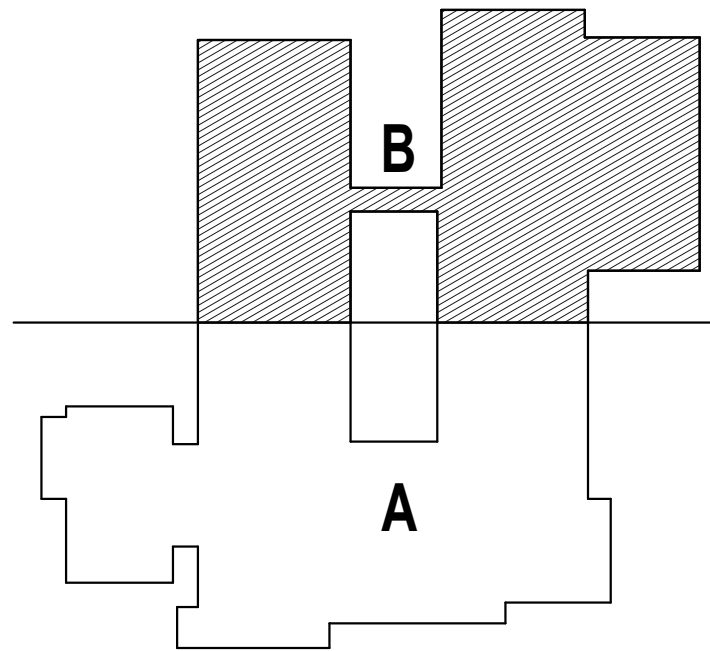
DEMOLITION PLAN GENERAL NOTES:

- THE CONTRACTOR SHALL REMOVE ALL HVAC ITEMS AS INDICATED INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: EQUIPMENT, LOW VOLTAGE WIRING, PIPING, DUCTWORK, GAS VENTS, SPECIALTIES & ACCESSORIES, HANGERS, REGISTERS, GRILLES & DIFFUSERS, CONTROL COMPONENTS, ETC. ALL WIRING SHALL BE TERMINATED BACK TO THEIR SOURCE AND ANY GAS BRANCH PIPING SHALL BE CAPPED BACK TO THE NEAREST MAIN. REFER TO WORK BY DIV. 22 & 26 FOR ANY ADDITIONAL INFORMATION.
- ANY ROOF OPENINGS DUE TO THE REMOVAL OF ANY ROOFTOP EQUIPMENT OR RELATED APPURTENANCES THEREOF, SHALL BE STRUCTURALLY PATCHED AND THE ROOFING SEALED WEATHERTIGHT. COORDINATE WITH THE GENERAL CONTRACTOR AND MAKE THE APPROPRIATE REPAIRS TO MAINTAIN THE EXISTING ROOFING SYSTEM WARRANTY. REFER TO ARCHITECTURAL DWGS FOR ADDITIONAL INFO.
- THE CONTRACTOR SHALL VISIT THE SITE AND ADJOINING AREAS, EXAMINE, AND BE FAMILIAR WITH ALL EXISTING CONDITIONS AND DETERMINE THE IMPACT ON THE EXECUTION OF WORK OF THIS CONTRACT. THE CONTRACTOR SHALL PERFORM THIS PRIOR TO THE SUBMISSION OF HIS PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- WHERE THE PROJECT REQUIRES PHASING, IT MAY BE NECESSARY FOR CORRESPONDING PHASED DEMOLITION WORK TO BE PERFORMED. CARE MUST BE TAKEN TO INSURE ACTIVE AREAS OUTSIDE THE CURRENT DEMOLITION PHASE REMAIN UNAFFECTED BY THIS WORK WITH NO INTERRUPTION OF SERVICE(S). INCLUDE ALL NECESSARY PRELIMINARY TIME TO PERFORM EACH PHASE OF DEMOLITION. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION THAT DEFINES THE PROJECT PHASING.
- CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS TO REMAIN. IF IN THE COURSE OF THE DEMOLITION, THE CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.
- THE DEMOLITION WORK SHALL INCLUDE PROVIDING ALL MATERIALS AND LABOR FOR EXTENSIONS, CONNECTIONS, CUTTING, PATCHING, REPAIRING ELECTRICAL WORK, AND TEMPORARY CONNECTIONS REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. NOTES AND GRAPHIC REPRESENTATION SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. EXTENT OF THE DEMOLITION WORK SHALL BE COORDINATED WITH THE ARCHITECT.
- PRIOR TO ANY WORK BEING PERFORMED, THIS CONTRACTOR SHALL COORDINATE WITH ALL APPROPRIATE TRADES AND BUILDING MANAGEMENT TO ENSURE THAT WORK WILL BE IN HARMONY WITH OTHER WORK AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING MANAGEMENT PRIOR TO PROCEEDING.
- COORDINATE WITH GENERAL CONTRACTOR FOR REMOVAL AND/OR ALTERATION OF CEILING. REFER TO ARCHITECTURAL PLANS.
- THE CONTRACTOR SHALL DOCUMENT ALL EXISTING DUCTWORK, PIPING, FEEDERS, LOW VOLTAGE CONTROL WIRING, ETC., WHICH PASS THROUGH THE DEMOLITION SPACE SERVING EXISTING OCCUPIED ADJOINING AREAS. ANY EXISTING WORK REQUIRED TO REMAIN BUT INTERFERING WITH NEW WORK SHALL BE RELOCATED AND RECONNECTED USING LIKE MATERIALS AND METHODS OF THE EXISTING SERVICE AND SHALL CONFORM TO STANDARDS OF THIS CONTRACT. THIS WORK MAY NOT BE REPRESENTED IN THE DRAWINGS, BUT SHOULD BE TAKEN INTO ACCOUNT BY THE CONTRACTOR IN HIS PROPOSAL. COORDINATE WITH BUILDING MANAGEMENT PRIOR TO ANY SHUTDOWN OR DISRUPTION OF SERVICES THAT MAY BE REQUIRED TO ACCOMMODATE THIS WORK.
- EQUIPMENT REQUIRED TO BE TEMPORARILY DISCONNECTED AND RELOCATED SHALL BE CAREFULLY REMOVED, STORED, CLEANED, REINSTALLED, RECONNECTED AND MADE OPERATIONAL.
- ALL NECESSARY CUTTING AND PATCHING TO ACCOMMODATE THE NEW HVAC WORK SHALL BE PERFORMED BY THIS CONTRACTOR AND COORDINATED WITH BUILDING MANAGEMENT SO AS TO MINIMIZE DISRUPTION OF EXISTING TENANTS AND SERVICES. RESTORE ALL ITEMS TO MATCH EXISTING CONDITIONS.
- PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING DUCTWORK, PIPING, CONDUITS, LOW VOLTAGE CABLING AND DEVICES TO REMAIN, WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS.
- PROTECT THE INTEGRITY OF FUTURE ENCLOSURE. INSULATE, MAINTAIN THE FULL FUNCTION AND/OR REPAIR ANY DAMAGE TO THEIR WORK, WHERE ITEMS WORKING ORDER PRIOR TO THE IMMEDIATELY TO THE ENGINE UNLESS OTHERWISE NOTED, WITHIN THE DESIGNATED AREA TO BE REMOVED.
- ANY DEMOLITION MATERIALS, THE OWNER SHALL BE PLACED TO BE TURNED OVER AND LOADED WITH THE OWNER'S REPRESENTATIVE. DEBRIS SHALL BE ALLOWED TO SITE SHALL BE SWEEPED CLEAN EACH DAY AND NO DUST OR DEBRIS SHALL BE PERMITTED TO ENTER THE AREA DRAINS SERVING THE BUILDING.
- ALL MATERIALS AND EQUIPMENT SLATED TO BE REMOVED AND IS NOT DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
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- DEMOLISH EXISTING THERMOSTAT AND CONTROL WIRING WHERE NEW CONTROLS ARE INDICATED TO BE INSTALLED ON THE NEW WORK PLANS. PROVIDE COVER PLATE WHERE CONTROLS HAVE BEEN DEMOLISHED.

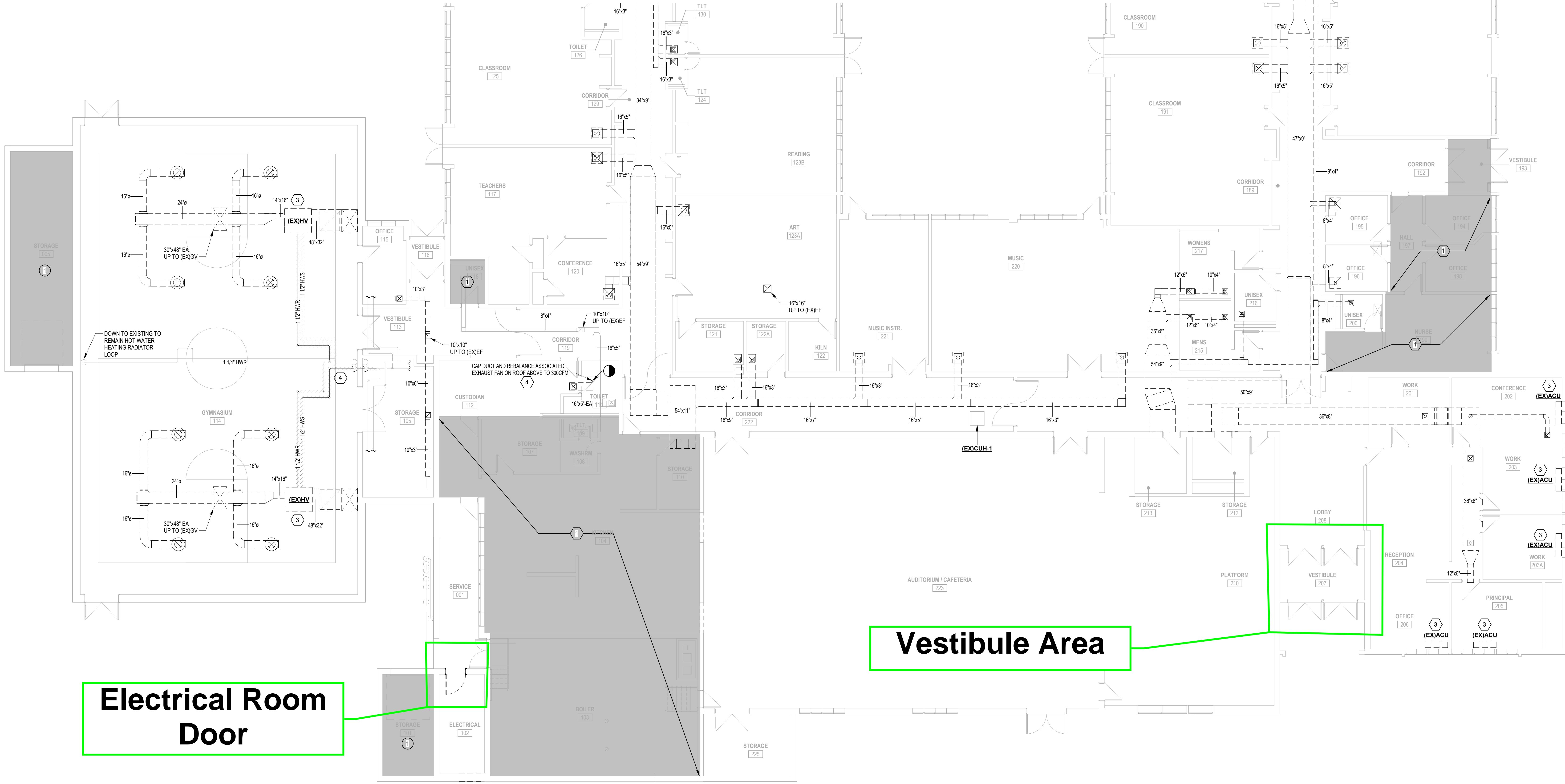
DEMOLITION PLAN KEY NOTES:

Notes:
1. Caulking sealants on roof area, including flashing and penetration points not considered suspect PCB-containing building materials based on reported date of construction.

KEY PLAN



Appendix C - Summary of Observed Suspect PCB-Containing Building Materials



Electrical Room
Door

Vestibule Area

1 PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART A

1/8" = 1'-0"

DEMOLITION PLAN GENERAL NOTES:

- THE CONTRACTOR SHALL REMOVE ALL HVAC ITEMS AS INDICATED INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: EQUIPMENT, LOW VOLTAGE WIRING, PIPING, DUCTWORK, GAS VENTS, SPECIALTIES & ACCESSORIES, HANGERS, REGISTERS, GRILLES & DIFFUSERS, CONTROL COMPONENTS, ETC.. ALL WIRING SHALL BE TERMINATED BACK TO THEIR SOURCE AND ANY GAS BRANCH PIPING SHALL BE CAPPED BACK TO THE NEAREST MAIN. REFER TO WORK BY DIV. 22 & 26 FOR ANY ADDITIONAL INFORMATION.
- ANY ROOF OPENINGS DUE TO THE REMOVAL OF ANY ROOFTOP EQUIPMENT OR RELATED APPURTENANCES THEREOF, SHALL BE STRUCTURALLY PATCHED AND THE ROOFING SEALED WEATHERTIGHT. COORDINATE WITH THE GENERAL CONTRACTOR AND MAKE THE APPROPRIATE REPAIRS TO MAINTAIN THE EXISTING ROOFING SYSTEM WARRANTY. REFER TO ARCHITECTURAL DWGS FOR ADDITIONAL INFO.
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- ANY DEMOLITION MATERIALS, EQUIPMENT, ETC., REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A MUTUALLY ACCEPTABLE LOCATION. THE ITEMS TO BE TURNED OVER AND LOCATION FOR THEIR STORAGE SHALL BE COORDINATED WITH THE OWNERS REP. OTHERWISE, THE DEMOLITION MATERIALS SHALL BE REMOVED FROM THE BUILDING AFTER REGULAR BUSINESS HOURS AND SHALL BE TAKEN OFF-SITE NO LATER THAN THE START OF THE NEXT BUSINESS DAY. NO DEBRIS SHALL BE ALLOWED TO ACCUMULATE ON THE SITE. THE CONSTRUCTION SITE SHALL BE SWEEP CLEAN EACH DAY AND NO DUST OR DEBRIS SHALL BE PERMITTED TO ENTER THE AREA DRAWS SERVING THE BUILDING.
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- DEMOLISH EXISTING THERMOSTAT AND CONTROL WIRING WHERE NEW CONTROLS ARE INDICATED TO BE INSTALLED ON THE NEW WORK PLANS. PROVIDE COVER PLATE WHERE CONTROLS HAVE BEEN DEMOLISHED.

Notes:

1. Painted CMU block walls present in hallways, classrooms, and other areas throughout the building; paint identified as suspect PCB-containing building material based on the date of construction.
2. Suspect PCB-containing caulking/sealants observed on windows between classrooms and hallways.
3. Suspect PCB-containing caulking observed on door of electrical room door to be removed.
4. Suspect PCB-containing caulking and sealants observed on main entry vestibule.



KEY PLAN

Appendix C - Summary of Observed Suspect PCB-Containing Building Materials

Designed:	RF/EX
Drawn:	EX
Reviewed:	AVP
Project No.:	2303053
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART B
Sheet No.:	



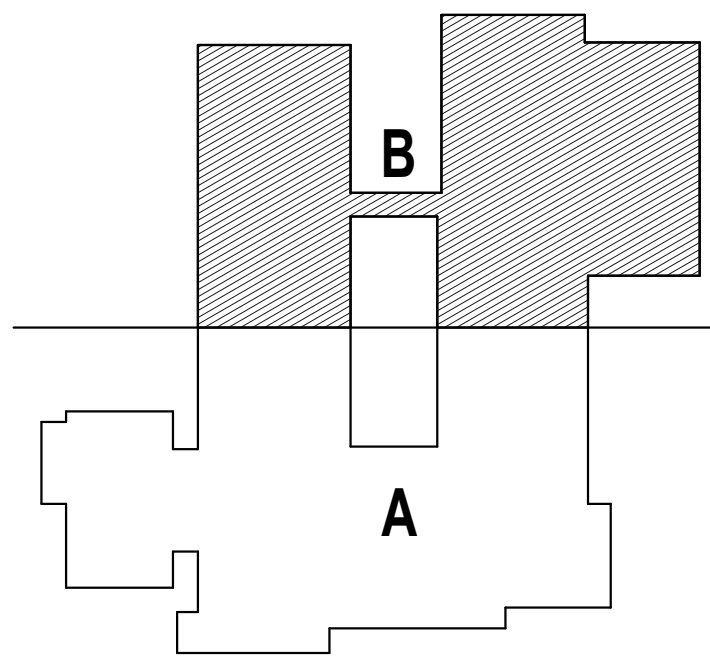
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- PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING SUPPORT WORK, PIPING, CONDUITS, LOW VOLTAGE CABLES AND DEVICES TO REMAIN, WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS.
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- WHERE PORTIONS OF ANY EXISTING CONTRACTOR SHALL PROVIDE A MAKE SAFE ANY UNPROTECTED DEMOLITION. CAPS SHALL BE AIRTIGHT OR WATERTIGHT DEPENDING ON TYPE OF SERVICE.
- DEMOLISH EXISTING THERMOSTAT AND CONTROL WIRING WHERE NEW CONTROLS ARE INDICATED TO BE INSTALLED ON THE NEW WORK PLANS. PROVIDE COVER PLATE WHERE CONTROLS HAVE BEEN DEMOLISHED.

Notes:

- Painted CMU block walls present in hallways, classrooms, and other areas throughout the building; paint identified as suspect PCB-containing building material based on the date of construction.
- Paint on structural steel components and metal roof decking observed in overhead areas throughout the building; materials identified as suspect PCB-containing building material based on the date of construction.
- Suspect PCB-containing caulking/sealants observed on doors and windows of main entry vestibule.
- Suspect PCB-containing caulking observed on partition doors including door to the electrical room.
- Sealants associated with ventilation ductwork not considered suspect for PCBs based on reported date on installation (1995/1996).

KEY PLAN



KEY PLAN



**Woodard
& Curran**

woodardcurran.com