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# Asbestos-Containing Materials Inspection

Oakwood Sr/Jr High School
1200 Far Hills Avenue
Oakwood, Ohio 45419

**Prepared for:**

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**Date of Inspection: March 2019**

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## 1.0 Executive Summary

### 1.1 Background

m.a.c. Paran Consulting Services, Inc. performed an pre-renovation asbestos inspection at the Oakwood Sr/Jr High School, 1200 Far Hills Avenue, Oakwood Ohio. The objectives of the inspection were to (1) identify, by type and location, friable and non-friable asbestos-containing materials [ACM] that were within the structure; (2) assess the current condition of the ACM identified; and, (3) provide estimated quantities of ACM identified. The inspection was conducted by Mr. George S. Beaudion, certified Ohio Asbestos Hazard Evaluation Specialists (License #ES31662) and Mr. W. Scott Carter, certified Ohio Asbestos Hazard Evaluation Specialists (License #ES34717) in March 2019.

### 1.2 Inspection Results

The following is a summary, based upon findings from both the 1999 and 2019 inspections, of the asbestos-containing (containing >1% asbestos) materials present at the subject property. Please note that the quantities provided in this summary are approximate amounts, and should be verified by an abatement contractor prior to the onset of removal activities.

- **Pipe Insulation -** Approximately 6,511 linear feet of asbestos-containing pipe insulation was identified throughout the building. The material ranges from good to poor condition.
- **Paper Duct Seam Insulation -** Approximately 20 square feet of asbestos-containing paper insulation on HVAC ductwork was identified in the kitchen. The material is in fair condition.
- **Floor Tile and Mastic -** Approximately 23,875 square feet of asbestos-containing floor tile and mastic were identified throughout the building. The materials are in a non-friable condition.
- **Floor Tile -** Approximately 1,244 square feet of asbestos-containing floor tile was identified throughout the building. The material is in a non-friable condition.
- **Black Floor Tile Mastic -** Approximately 8,875 square feet of asbestos-containing floor tile mastic was identified throughout the building. The material is in a non-friable condition.
- **Fitting Insulation -** Approximately 1,026 asbestos-containing cementitious fittings between sections of fiberglass pipe insulation were identified throughout the building. The material ranges from good to fair condition.
- **Tank Insulation -** Approximately 78 square feet of asbestos-containing tank insulation was identified in the building. The material is in fair condition.
- **Canvas with Horse Hair Backing -** Approximately 10,910 square feet of asbestos-containing canvas with horse hair backing was identified in the auditorium of the building. The material is in good condition.
- **Acoustical Plaster -** Approximately 3,052 square feet of asbestos-containing acoustical plaster was identified in the cafeteria of the building. The material is in good condition.
- **Sink Undercoating -** Approximately 12 square feet of asbestos-containing black sink undercoating was identified throughout the building. The material is in a non-friable condition.

- **Vapor Barrier Beneath Gym Floors -** Approximately 9,900 square feet of asbestos-containing vapor barrier material was assumed to be located beneath wood gym floors of the building. The material is in a non-friable condition.

- **Boiler Refractory on Boiler Access Doors -** Approximately 40 square feet of asbestos-containing refractory was assumed to be on boiler access doors. The material is in a non-friable condition.

- **Chalk Board Adhesive -** Approximately 1,520 square feet of asbestos-containing chalk board adhesive was assumed to be located throughout the 1932 building. The material is in a non-friable condition.

- **Dry Erase Board Adhesive -** Approximately 240 square feet of asbestos-containing chalk board adhesive was assumed to be located throughout the 1932 building. The material is in a non-friable condition.

- **Transite Panels -** Approximately 200 square feet of asbestos-containing transite panels was identified in fume hoods in the building. The material is in a non-friable condition.

- **Step Treads -** Approximately 90 square feet of asbestos-containing step treads was identified in stairwell G of the building. The material is in a non-friable condition.

- **Glass Bedding -** Approximately 790 linear feet of asbestos-containing glass bedding material was identified in stairwell G and the 1932 building. The material is in a non-friable condition.

- **Caulking on Exterior Door Frames -** Approximately 560 linear feet of asbestos-containing caulking was identified in the original building and 1932 building. The material is in a non-friable condition.

- **Caulking on Aluminum Window Frames –** Approximately 2,695 linear feet of asbestos-containing caulking on aluminum window frames was identified in the 1932 building. The material is in a non-friable condition.

- **Vapor Barrier Beneath Slate Roofing -** Approximately 20,000 square feet of asbestos-containing black vapor barrier was identified beneath the slate roof of the original building. The material is in a non-friable condition.

**Note 1:** It should be noted that this inspection report supplements the asbestos inspection reports generated in 2018. Both reports should be referenced to identify laboratory results, approximate material quantity, and locations of asbestos-containing materials.

**Note 2:** While care was taken during the inspection to identify all asbestos-containing materials, additional materials may be located within non-accessible areas of the structure (e.g., behind walls, above intact ceilings, inside concealed pipe chases, etc.). If, through renovation or demolition these materials are discovered, they should be treated as asbestos-containing until further testing proves otherwise.

## 2.0 Inspection Procedures

### 2.1 General Asbestos Inspection and Sampling Procedures

The inspection was performed following a modified protocol of the EPA Asbestos Hazard Emergency Response Act (40 CFR 763.90) commonly known as "AHERA". Although originally required only for public and private school buildings housing kindergarten through 12th-grade classes, it has become the accepted industry standard for conducting asbestos investigations in all types of buildings. Most recently, the Occupational Safety and Health Administration revised its Asbestos in Construction Industry standard (29 CFR 1926.1101) to reference AHERA as the required method of conducting asbestos inspections in all public and commercial buildings.

The vast majority of physically accessible spaces within the building were accessed and inspected for suspect asbestos-containing materials. The Inspector then grouped suspect materials into homogeneous areas for sampling. A homogeneous area consists of materials with like appearance, color, texture, and application date. A physical assessment (visual observation and touching the material) was also made of the current condition and degree of friability for each identified material (a material is considered friable if it can be crumbled using hand pressure). A list of homogeneous areas identified for this assessment is included on the Bulk Sample Summary Table.

The Inspector assessed all identified asbestos-containing materials. The inspection encompassed both friable and non-friable materials. The Inspector then assumed that the specific material remained homogeneous (based upon the material's appearance and application) throughout the building. In situations where materials appeared to alternate between asbestos containing and non-asbestos containing, the Inspector looked for visible differences between materials. If differences were not apparent, the Inspector made a professional decision to err on the side of conservatism and assumed that all materials were asbestos-containing.

The Inspector made every effort to locate all asbestos-containing materials identified during the limited inspection; however, should unidentified suspect asbestos-containing materials be discovered, please contact m.a.c. Paran Consulting Services, Inc. for assistance in material identification.

### 2.2 Method of Sampling and Analysis

#### 2.2.1 Bulk Sample Collection Methods

To avoid disturbing suspected asbestos-containing materials more than necessary and minimize the potential release of asbestos fibers, the Inspector performed bulk sampling in accordance with the industry accepted procedures outlined in the current EPA Guidance Document and the AHERA sampling protocol. Each sample collected was pre-wetted and obtained using a clean coring tool, utility knife, or other appropriate tool. Each sample was then placed in a clean, sealable vial and labeled with a unique sample identification number. Care was taken to obtain a sample that was representative of all layers of a material. To avoid cross-contamination, the tools used for sample collection were thoroughly cleaned before collecting the next sample. If requested, the sample site was labeled with a pre-printed adhesive-backed sample identification tag bearing the corresponding sample identification number. Pertinent sample information was recorded on a standardized bulk sample log sheet including the date of inspection, name of the Inspector, a brief description and the location of the sample, and the type of material sampled (e.g., thermal systems insulation).

### 2.2.2 Analysis of Bulk Samples

Bulk samples were analyzed for asbestos content by Polarized-Light Microscopy (PLM) and dispersion staining (Method Reference: EPA/600/R-931/116). This analytical method, which EPA currently recommends, for the determination of asbestos in bulk samples, can be used for qualitative identification of six morphologically different types of asbestos fibers: chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite asbestos.

PLM analysis requires the microscopist to take a portion of the sample and treat it with an oil of a specific refractive index. This prepared slide is then subjected to a variety of tests while being viewed under varying polarizations of light. Each asbestos type displays unique characteristic when subjected to these tests. Percentages of the identified types of asbestos are determined by visual estimation.

### 2.2.3 Reporting of Analysis Results

The method specifies that the asbestos content in a bulk sample shall be estimated and reported as a finite percentage (rounded to the nearest percent) within the range of 0 to 100. Minute quantities of asbestos in bulk samples may be reported as “trace” (tr) or less than 1 percent. The composition of the bulk sample is reported in percentages of asbestos (i.e., chrysotile, amosite, crocidolite, or other) and non-asbestos (i.e., cellulose, fiberglass, mineral wool, synthetic, or other) components. The original laboratory reports are presented in Appendix A.

### 2.2.4 Laboratory

Analysis of all suspect asbestos-containing materials was performed by Eurofins/CEI Laboratory, 730 SE Maynard Road, Cary NC 27511 using polarized light microscopy. Eurofins/CEI successfully participates in, and is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), administered by the National Institute of Standards and Technology.

## 2.3 Physical and Hazard Assessment

### 2.3.1 Physical Assessment Factors

Per AHERA requirements, the Inspector performed a physical assessment of all friable asbestos-containing materials. This involved physically observing and documenting the current condition of each friable material and assessing its potential for future disturbance (or fiber release potential).

The Inspector categorized the materials’ current condition as Good, Fair, or Poor. AHERA protocol is not specific as to how these categories are arrived at, but in general the following guideline is used:

- Good – less than 10% area damage
- Fair – more than 10%, but less than 25% area damage
- Poor – more than 25% area damage

The Inspector then made an assessment of the materials’ potential for future disturbance (or fiber release potential) using the general factors listed in Table 2-1 on the following page. The first three factors focus on the current condition of the asbestos-containing material. Evidence of deterioration, delamination, physical damage, or water damage indicates that fiber release has occurred, is occurring, or is likely to occur in the future. Such evidence is based on the appearance of the material and/or the presence of dislodged or crumbled material in the surrounding area. The first three factors focus on the potential for fiber release due to disturbance or erosion. Surface erosion is likely to occur when asbestos-containing materials are located in air plenums or near forced-air streams. Exposed and easily accessible materials in areas frequented by building occupants, or subject to mechanical vibrations are more vulnerable to disturbance or damage than materials in other locations.

| Table 2-1: Factors for Assessing Potential Fiber Release |
|---|
| **Current Condition of Asbestos-Containing Materials** |
| • Evidence of deterioration or delamination from the underlying surface (substrate)<br>• Evidence of physical damage (e.g., presence of debris)<br>• Evidence of water damage |
| **Potential for Future Disturbance, Damage, or Erosion of Asbestos-Containing Material** |
| • Proximity to air plenum or direct airstream<br>• Visibility, accessibility (to building occupants and maintenance personnel), and degree of activity (air movement, vibration, movement of building occupants)<br>• Change in building use |

2.3.2 Hazard Assessment Factors

Based upon the physical assessment, friable asbestos-containing materials are then given a hazard rank with corresponding response options to aid the building owner in prioritizing response actions. The hazard ranks range from 7 – most hazardous, to 1 – least hazardous as shown in Table 2-2 below. The highest rank is reserved for materials that are "significantly damaged" or material that is so extensively damaged that it requires immediate corrective action. Hazard ranks 4 – 6 reflect materials which are "damaged" with rank 6 indicating a high potential for further damage, and rank 5 indicating a moderate potential for damage. Hazard rank 4 denotes that a material has been damaged; however, the potential for any further damage is low. Hazard ranks 1 – 3 are reserved for materials currently in good condition with future disturbance potentials being high, moderate, or low (3, 2, 1, respectively). Non-friable materials are categorized as non-friable.

| Table 2-2: Classifications for Hazard Potential of Friable Asbestos-Containing Materials | | |
|---|---|---|
| **Hazard Rank** | **Condition** | **Disturbance Potential** |
| 7 | Poor | Any |
| 6 | Fair | High |
| 5 | Fair | Moderate |
| 4 | Fair | Low |
| 3 | Good | High |
| 2 | Good | Moderate |
| 1 | Good | Low |

2.3.3 Physical and Hazard Assessments of Materials Encountered

The physical and hazard assessments made for all asbestos-containing materials identified during this inspection can be found in Section 4.0 “Inventory of Asbestos-Containing Materials”.

## 3.0 Bulk Sample Data Summary

The following table presents the results of materials sampled.

**Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School**

| Room/Location | Material Description | Homogeneous Area No. (HA) | Sample Number | Laboratory Results |
|---|---|---|---|---|
| Original Building Room 302 | 9" Floor Tile (dark brown) | 1 | 1 | 10% Chrysotile |
| Original Building Room 302 | Yellow Mastic on HA #1 | 1A | 1 | 2% Chrysotile |
| Original Building Room 207 | 9" Floor Tile (dark brown) | 1 | 2 | Positive Stop Analysis |
| Original Building Room 207 | Yellow Mastic on HA #1 | 1A | 2 | Positive Stop Analysis |
| Original Building Room 309 | Chalk Board Adhesive (white) | 2 | 3 | None Detected |
| Original Building Room 309 | Chalk Board Adhesive (white) | 2 | 4 | None Detected |
| Original Building | HVAC Seam Adhesive (grey) | 3 | 5 | None Detected |
| Original Building | HVAC Seam Adhesive (grey) | 3 | 6 | None Detected |
| 3rd Floor Hallway Crawl/Storage Area | Stage Curtain (tan) | 4 | 7 | None Detected |
| 3rd Floor Hallway Crawl/Storage Area | Stage Curtain (tan) | 4 | 8 | None Detected |
| Original Building Room C | Fitting Insulation on Fiberglass Pipe Insulation | 5 | 9 | 20% Chrysotile 5% Amosite |
| Original Building Fan Room | Fitting Insulation on Fiberglass Pipe Insulation | 5 | 10 | Positive Stop Analysis |
| Original Building Area off Cafeteria | Fitting Insulation on Fiberglass Pipe Insulation | 5 | 11 | Positive Stop Analysis |
| Original Building Room 105 | Preformed Block Pipe Insulation | 6 | 12 | 30% Chrysotile |
| Original Building Room 106 | Preformed Block Pipe Insulation | 6 | 13 | Positive Stop Analysis |
| Original Building Room 104 | Preformed Block Pipe Insulation | 6 | 14 | Positive Stop Analysis |

| Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School | | | | |
|---|---|---|---|---|
| **Room/Location** | **Material Description** | **Homogeneous Area No. (HA)** | **Sample Number** | **Laboratory Results** |
| Original Building Room 309 | 9” Floor Tile (brown, white) | 7 | 15 | 2% Chrysotile |
| Original Building Room 309 | Black Mastic on HA #7 | 7A | 15 | 7% Chrysotile |
| Original Building Room 309 | 9” Floor Tile (brown, white) | 7 | 16 | Positive Stop Analysis |
| Original Building Room 309 | Black Mastic on HA #7 | 7A | 16 | Positive Stop Analysis |
| Original Building Room 309 | 2’ x 2’ Ceiling Tile (dimple finish) | 8 | 17 | None Detected |
| Original Building Room 309 | 2’ x 2’ Ceiling Tile (dimple finish) | 8 | 18 | None Detected |
| Original Building Room 309 | Linoleum Flooring (brown, grey, tan) | 9 | 19 | None Detected |
| Original Building Room 309 | Linoleum Flooring (brown, grey, tan) | 9 | 20 | None Detected |
| Original Building Room 300 | 12” Floor Tile (tan, black, white) | 12 | 21 | None Detected |
| Original Building Room 300 | Black Mastic on HA #7 | 12A | 21 | 3% Chrysotile |
| Original Building Room 300 | 12” Floor Tile (tan, black, white) | 12 | 22 | None Detected |
| Original Building Room 300 | Black Mastic on HA #7 | 12A | 22 | Positive Stop Analysis |
| Original Building 2nd Floor Men’s R/R | 12” Floor Tile (tan, brown, white) | 13 | 23 | None Detected |
| Original Building 2nd Floor Men’s R/R | Yellow Mastic on HA #13 | 13A | 23 | None Detected |
| Original Building 2nd Floor Men’s R/R | 12” Floor Tile (tan, brown, white) | 13 | 24 | None Detected |
| Original Building 2nd Floor Men’s R/R | Yellow Mastic on HA #13 | 13A | 24 | None Detected |

| Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School | | | | |
|---|---|---|---|---|
| **Room/Location** | **Material Description** | **Homogeneous Area No. (HA)** | **Sample Number** | **Laboratory Results** |
| Original Building Room 210 | 9” Floor Tile (tan) | 14 | 25 | 2% Chrysotile |
| Original Building Room 210 | Black Mastic on HA #14 | 14A | 25 | 2% Chrysotile |
| Original Building Room 210 | 9” Floor Tile (tan) | 14 | 26 | Positive Stop Analysis |
| Original Building Room 210 | Black Mastic on HA #14 | 14A | 26 | Positive Stop Analysis |
| Original Building Cafeteria Office | Drywall/Compound | 15 | 27 | None Detected |
| Original Building Cafeteria Office | Drywall/Compound | 15 | 28 | None Detected |
| Original Building Room 107A | Drywall/Compound | 15 | 29 | None Detected |
| Original Building Fan Room | Air Cell Pipe Insulation | 16 | 30 | 65% Chrysotile |
| Original Building Room C | Air Cell Pipe Insulation | 16 | 31 | Positive Stop Analysis |
| Original Building Room 101A/B | Air Cell Pipe Insulation | 16 | 32 | Positive Stop Analysis |
| Original Building Room 207 | 9” Floor Tile (white) | 17 | 33 | None Detected |
| Original Building Room 207 | Black Mastic on HA #17 | 17A | 33 | 2% Chrysotile |
| Original Building Room 207 | 9” Floor Tile (white) | 17 | 34 | None Detected |
| Original Building Room 207 | Yellow Mastic on HA #17 | 17A | 34 | None Detected |
| Original Building Room 207 | Carpet Mastic (yellow) | 18 | 35 | None Detected |
| Original Building Room 207 | Carpet Mastic (yellow) | 18 | 36 | None Detected |
| Original Building Room 206 | 12” Floor Tile (beige, blue, white) | 20 | 37 | None Detected |

| Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School | | | | |
|---|---|---|---|---|
| **Room/Location** | **Material Description** | **Homogeneous Area No. (HA)** | **Sample Number** | **Laboratory Results** |
| Original Building Room 206 | Black Mastic on HA #20 | 20A | 37 | None Detected |
| Original Building Room 206 | 12” Floor Tile (beige, blue, white) | 20 | 38 | None Detected |
| Original Building Room 206 | Black Mastic on HA #20 | 20A | 38 | None Detected |
| Original Building Room 206 | 12” Floor Tile (deep red) | 21 | 39 | None Detected |
| Original Building Room 206 | Black Mastic on HA #21 | 21A | 39 | None Detected |
| Original Building Room 206 | 12” Floor Tile (deep red) | 21 | 40 | None Detected |
| Original Building Room 206 | Black Mastic on HA #21 | 21A | 40 | None Detected |
| Original Building Room 206 | Brown Mastic on HA #21 | 21B | 40 | 3% Chrysotile |
| Original Building Auditorium | Stage Curtain (blue) | 23 | 41 | None Detected |
| Original Building Auditorium | Stage Curtain (blue) | 23 | 42 | None Detected |
| Original Building Auditorium | Stage Curtain (black) | 24 | 43 | None Detected |
| Original Building Auditorium | Stage Curtain (black) | 24 | 44 | None Detected |
| Original Building Auditorium | Canvas Ceiling Material with Horse Hair | 25 | 45 | 5% Chrysotile |
| Original Building Auditorium | Canvas Ceiling Material with Horse Hair | 25 | 46 | Positive Stop Analysis |
| Original Building Auditorium | Canvas Ceiling Material with Horse Hair | 25 | 47 | Positive Stop Analysis |
| Original Building Auditorium | Textured Finish on Walls | 26 | 48 | None Detected |

| Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School | | | | |
|---|---|---|---|---|
| **Room/Location** | **Material Description** | **Homogeneous Area No. (HA)** | **Sample Number** | **Laboratory Results** |
| Original Building Auditorium | Textured Finish on Walls | 26 | 49 | None Detected |
| Original Building Auditorium | Textured Finish on Walls | 26 | 50 | None Detected |
| Original Building Auditorium | Textured Finish on Walls | 26 | 51 | None Detected |
| Original Building Auditorium | Textured Finish on Walls | 26 | 52 | None Detected |
| Original Building Auditorium | Step Tread (brown, grey, white) | 27 | 53 | None Detected |
| Original Building Auditorium | Yellow, Brown Mastic on HA #27 | 27A | 53 | None Detected |
| Original Building Auditorium | Step Tread (brown, grey, white) | 27 | 54 | None Detected |
| Original Building Auditorium | Yellow, Brown Mastic on HA #27 | 27A | 54 | None Detected |
| Original Building Auditorium | Glazing on Steel Interior Windows | 28 | 55 | None Detected |
| Original Building Auditorium | Glazing on Steel Interior Windows | 28 | 56 | None Detected |
| Original Building Auditorium Exterior Porch | Acoustical Ceiling Plaster | 30 | 57 | None Detected |
| Original Building Auditorium Exterior Porch | Acoustical Ceiling Plaster | 30 | 58 | None Detected |
| Original Building Auditorium Exterior Porch | Acoustical Ceiling Plaster | 30 | 59 | None Detected |
| Original Building Kitchen | 9” Floor Tile (brown, white) | 31 | 60 | None Detected |
| Original Building Kitchen | Black Mastic on HA #31 | 31A | 60 | 5% Chrysotile |
| Original Building Kitchen | 9” Floor Tile (brown, white) | 31 | 61 | None Detected |

| Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School | | | | |
|---|---|---|---|---|
| **Room/Location** | **Material Description** | **Homogeneous Area No. (HA)** | **Sample Number** | **Laboratory Results** |
| Original Building Kitchen | Black Mastic on HA #31 | 31A | 61 | Positive Stop Analysis |
| Original Building Kitchen | Paper Insulation on HVAC Ductwork | 32 | 62 | 65% Chrysotile |
| Original Building Kitchen | Paper Insulation on HVAC Ductwork | 32 | 63 | Positive Stop Analysis |
| Original Building Kitchen | Paper Backing on 1’ x 2’ Ceiling Tiles | 33 | 64 | None Detected |
| Original Building Kitchen | Paper Backing on 1’ x 2’ Ceiling Tiles | 33 | 65 | None Detected |
| Original Building Cafeteria | 12” Floor Tile (tan, black, brown) | 35 | 66 | None Detected |
| Original Building Cafeteria | Black Mastic on HA #35 | 35A | 66 | 3% Chrysotile |
| Original Building Cafeteria | 12” Floor Tile (tan, black, brown) | 35 | 67 | None Detected |
| Original Building Cafeteria | Black Mastic on HA #35 | 35A | 67 | Positive Stop Analysis |
| Original Building First Floor Hall | 12” Ceiling Tile Adhesive (brown) | 36 | 68 | None Detected |
| Original Building Room 106 | 12” Ceiling Tile Adhesive (brown) | 36 | 69 | None Detected |
| Original Building First Floor Hall | 12” Ceiling Tile (medium pin holes) | 37 | 70 | None Detected |
| Original Building Room 106 | 12” Ceiling Tile (medium pin holes) | 37 | 71 | None Detected |
| Original Building Room 101 A/B | 12” Floor Tile (peach, brown, white) | 38 | 72 | None Detected |
| Original Building Room 101 A/B | Black Mastic on HA #38 | 38A | 72 | 5% Chrysotile |
| Original Building Room 101 A/B | 12” Floor Tile (peach, brown, white) | 38 | 73 | None Detected |
| Original Building Room 101 A/B | Black Mastic on HA #38 | 38A | 73 | Positive Stop Analysis |

| Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School | | | | |
|---|---|---|---|---|
| **Room/Location** | **Material Description** | **Homogeneous Area No. (HA)** | **Sample Number** | **Laboratory Results** |
| Original Building | Cove Base Adhesive (tan) | 39 | 74 | None Detected |
| Original Building | Cove Base Adhesive (tan) | 39 | 75 | None Detected |
| Original Building Room 109A | 12” Floor Tile (white, green, red, tan) | 40 | 76 | None Detected |
| Original Building Room 109A | Yellow Mastic on HA #40 | 40A | 76 | None Detected |
| Original Building Room 109A | 12” Floor Tile (white, green, red, tan) | 40 | 77 | None Detected |
| Original Building Room 109A | Yellow Mastic on HA #40 | 40A | 77 | None Detected |
| Original Building Room 109A | Laboratory Counter Top (black) | 41 | 78 | None Detected |
| Original Building Room 109A | Laboratory Counter Top (black) | 41 | 79 | None Detected |
| Original Building Lower Level Air Handler Area | Tank Insulation | 44 | 80 | 10% Chrysotile |
| Original Building Lower Level Air Handler Area | Tank Insulation | 44 | 81 | Positive Stop Analysis |
| Original Building Lower Level Air Handler Area | Tank Insulation | 44 | 82 | Positive Stop Analysis |
| 1960 Addition Room 212A | 12” Floor Tile (blue, red, white) | 45 | 83 | None Detected |
| 1960 Addition Room 212A | Yellow Mastic on HA #45 | 45A | 83 | None Detected |
| 1960 Addition Room 212A | 12” Floor Tile (blue, red, white) | 45 | 84 | None Detected |
| 1960 Addition Room 212A | Yellow Mastic on HA #45 | 45A | 84 | None Detected |
| 1960 Addition Room 212A | 12” Ceiling Tile Adhesive (brown) | 46 | 85 | None Detected |
| 1960 Addition Room 212A | 12” Ceiling Tile Adhesive (brown) | 46 | 86 | None Detected |

| Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School | | | | |
|---|---|---|---|---|
| **Room/Location** | **Material Description** | **Homogeneous Area No. (HA)** | **Sample Number** | **Laboratory Results** |
| 1960 Addition Room 212H | Drywall/Compound | 47 | 87 | None Detected |
| 1960 Addition Prep Room D | Drywall/Compound | 47 | 88 | None Detected |
| 1960 Addition Room 212H | Drywall/Compound | 47 | 89 | None Detected |
| 1960 Addition Room 124 | 12” Floor Tile (white, green, red) | 49 | 90 | None Detected |
| 1960 Addition Room 124 | Black Mastic on HA #49 | 49A | 90 | None Detected |
| 1960 Addition Room 124 | 12” Floor Tile (white, green, red) | 49 | 91 | None Detected |
| 1960 Addition Room 124 | Black Mastic on HA #49 | 49A | 91 | None Detected |
| 1960 Addition Room 123 | 2’ x 2’ Floor Tile (tan, white, grey) | 50 | 92 | None Detected |
| 1960 Addition Room 123 | Yellow Mastic on HA #50 | 50 | 92 | None Detected |
| 1960 Addition Room 123 | 2’ x 2’ Floor Tile (tan, white, grey) | 50 | 93 | None Detected |
| 1960 Addition Room 123 | Yellow Mastic on HA #50 | 50 | 93 | None Detected |
| 1932 Addition Room S12 | 12” Floor Tile (beige, brown, white) | 53 | 94 | None Detected |
| 1932 Addition Room S12 | Black Mastic on HA #53 | 53A | 94 | None Detected |
| 1932 Addition Room S12 | 12” Floor Tile (beige, brown, white) | 53 | 95 | None Detected |
| 1932 Addition Room S12 | Black Mastic on HA #53 | 53A | 95 | None Detected |
| 1932 Addition Room 136 | 9” Floor Tile (tan) | 55 | 96 | 5% Chrysotile |

| Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School | | | | |
|---|---|---|---|---|
| **Room/Location** | **Material Description** | **Homogeneous Area No. (HA)** | **Sample Number** | **Laboratory Results** |
| 1932 Addition Room 136 | Black Mastic on HA #55 | 55A | 96 | None Detected |
| 1932 Addition Room 136 | 9” Floor Tile (tan) | 55 | 97 | Positive Stop Analysis |
| 1932 Addition Room 136 | Black Mastic on HA #55 | 55A | 97 | None Detected |
| 1932 Addition Room 136 | 9” Floor Tile (brown) | 56 | 98 | 10% Chrysotile |
| 1932 Addition Room 136 | Black Mastic on HA #56 | 56A | 98 | None Detected |
| 1932 Addition Room 136 | 9” Floor Tile (brown) | 56 | 99 | None Detected |
| 1932 Addition Room 136 | Black Mastic on HA #56 | 56A | 99 | None Detected |
| 1932 Addition Room 113 | Linoleum Flooring (tan, grey) | 57 | 100 | None Detected |
| 1932 Addition Room 113 | Green Mastic on HA #57 | 57A | 100 | None Detected |
| 1932 Addition Room 113 | Linoleum Flooring (tan, grey) | 57 | 101 | None Detected |
| 1932 Addition Room 113 | Green Mastic on HA #57 | 57A | 101 | None Detected |
| 1932 Addition Room 112 | Textured Finish on Ceiling | 58 | 102 | None Detected |
| 1932 Addition Room 112 | Textured Finish on Ceiling | 58 | 103 | None Detected |
| 1932 Addition Room 112 | Textured Finish on Ceiling | 58 | 104 | None Detected |
| 1932 Addition Room 112 | 12” Floor Tile (tan, brown, white) | 59 | 105 | None Detected |
| 1932 Addition Room 112 | Yellow Mastic on HA #59 | 59A | 105 | None Detected |
| 1932 Addition Room 112 | 12” Floor Tile (tan, brown, white) | 59 | 106 | None Detected |

| Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School | | | | |
|---|---|---|---|---|
| **Room/Location** | **Material Description** | **Homogeneous Area No. (HA)** | **Sample Number** | **Laboratory Results** |
| 1932 Addition Room 112 | Yellow Mastic on HA #59 | 59A | 106 | None Detected |
| 1932 Addition Stairwell G | Step Tread (brown, white) | 60 | 107 | 3% Chrysotile |
| 1932 Addition Stairwell G | Brown Mastic on HA #60 | 60A | 107 | None Detected |
| 1932 Addition Stairwell G | Step Tread (brown, white) | 60 | 108 | Positive Stop Analysis |
| 1932 Addition Stairwell G | Brown Mastic on HA #60 | 60A | 108 | None Detected |
| 1932 Addition Stairwell G | Caulking on Steel Window Frames | 61 | 109 | 5% Chrysotile |
| 1932 Addition Stairwell G | Caulking on Steel Window Frames | 61 | 110 | Positive Stop Analysis |
| 1932 Addition Stairwell G | Glass Bedding on Steel Windows | 62 | 111 | 5% Chrysotile |
| 1932 Addition Stairwell G | Glass Bedding on Steel Windows | 62 | 112 | Positive Stop Analysis |
| Original Building | Caulking on Aluminum Window Frames | 63 | 113 | None Detected |
| Original Building | Caulking on Aluminum Window Frames | 63 | 114 | None Detected |
| Original Building | Caulking on Aluminum Window Frames | 63 | 115 | None Detected |
| Original Building | Caulking on Aluminum Window Frames | 63 | 116 | None Detected |
| Original Building | Caulking on Exterior Entrance Door Frames | 64 | 117 | 2% Chrysotile |
| Original Building | Caulking on Exterior Entrance Door Frames | 64 | 118 | Positive Stop Analysis |
| 1932 Addition | Caulking on Aluminum Window Frames | 65 | 119 | None Detected |
| 1932 Addition | Caulking on Aluminum Window Frames | 65 | 120 | 5% Chrysotile |

| Table 3-1: Bulk Sample Summary – Oakwood Jr/Sr High School | | | | |
|---|---|---|---|---|
| **Room/Location** | **Material Description** | **Homogeneous Area No. (HA)** | **Sample Number** | **Laboratory Results** |
| 1932 Addition | Caulking on Exterior Entrance Door Frames | 66 | 121 | 5% Chrysotile |
| 1932 Addition | Caulking on Exterior Entrance Door Frames | 66 | 122 | Positive Stop Analysis |
| 1932 Addition | Glass Bedding on Leaded Glass Windows | 67 | 123 | 5% Chrysotile |
| 1932 Addition | Glass Bedding on Leaded Glass Windows | 67 | 124 | Positive Stop Analysis |
| 1960 Addition | Caulking on Aluminum Window Frames | 68 | 125 | None Detected |
| 1960 Addition | Caulking on Aluminum Window Frames | 68 | 126 | None Detected |
| Original Building | Slate Roofing | 69 | 127 | None Detected |
| Original Building | Slate Roofing | 69 | 128 | None Detected |
| Original Building | Vapor Barrier Beneath Slate Roof | 70 | 129 | None Detected |
| Original Building | Vapor Barrier Beneath Slate Roof | 70 | 130 | 10% Chrysotile |
| 1932 Addition | Slate Roofing | 71 | 131 | None Detected |
| 1932 Addition | Slate Roofing | 71 | 132 | None Detected |
| 1932 Addition | Vapor Barrier Beneath Slate Roof | 72 | 133 | None Detected |
| 1932 Addition | Vapor Barrier Beneath Slate Roof | 72 | 134 | None Detected |
| Original Building Exterior | Stucco | 73 | 135 | None Detected |
| Original Building Exterior | Stucco | 73 | 136 | None Detected |
| Original Building Exterior | Stucco | 73 | 137 | None Detected |

**Table 3-2 Homogeneous Area Descriptions – Oakwood Jr/Sr High School**

| HA# | Description of Material – Bold Type Indicates Asbestos-Containing |
|---|---|
| **1** | **9” Floor Tile – Black/White** |
| **1A** | **Black Mastic on HA #1** |
| 2 | Chalk Board Adhesive – Original Building |
| 3 | HVAC Seam Mastic |
| 4 | Stored Stage Curtain – Tan |
| **5** | **Fitting Insulation on Sections of Fiberglass Pipe Insulation – Original Building** |
| **6** | **Pre-Formed Block Pipe Insulation – Original Building** |
| **7** | **9” Floor Tile – Light Brown with Long White and Brown Streaks** |
| **7A** | **Black Mastic on HA #7** |
| 8 | 2’ x 2’ Ceiling Tile – Dimple Finish |
| 9 | Linoleum Flooring – Brown, Grey, Tan |
| 10 | Black Vapor Barrier Beneath Slate Roofing – Original Building |
| 11 | Slate Roofing – Original Building |
| 12 | 12” Floor Tile – Tan with Black, White, Tan Streaks |
| **12A** | **Black Mastic on HA #12** |
| 13 | 12” Floor Tile – Tan with Brown, and White Streaks |
| 13A | Yellow Mastic on HA #13 |
| **14** | **9” Floor Tile – Tan** |
| **14A** | **Black Mastic on HA #14** |
| 15 | Drywall/Compound – Original Building |
| **16** | **Air Cell Pipe Insulation** |
| **17** | **9” Floor Tile – White** |
| 17A | **Black, Brown Mastic on HA #17** |

**Table 3-2 Homogeneous Area Descriptions – Oakwood Jr/Sr High School**

| HA# | Description of Material – Bold Type Indicates Asbestos-Containing |
|---|---|
| 18 | Carpet Mastic – Yellow |
| **19** | **Dry Erase Board Adhesive – Assumed to be Asbestos-Containing** |
| 20 | 12” Floor Tile – Beige with Blue, White and Brown Streaks |
| 20A | Black Mastic on HA #20 |
| 21 | 12” Floor Tile – Deep Red |
| **21A** | **Black Mastic on HA #21** |
| **22** | **Sink Undercoating – Black (previously identified as asbestos-containing)** |
| 23 | Stage Curtain – Blue |
| 24 | Stage Curtain – Black |
| **25** | **Canvas Material with Horse Hair Backing – Original Building Auditorium** |
| 26 | Textured Finish on Walls – Original Building Auditorium |
| 27 | Rubber Step Treads – Brown with Grey and White Flecks |
| 27A | Black, Brown Mastic on HA #27 |
| 28 | Glazing on Interior Steel Windows – Original Building Auditorium |
| **29** | **Acoustical Ceiling Plaster – Original Building Auditorium Foyer (previously identified as asbestos-containing)** |
| **30** | **Acoustical Ceiling Plaster – Original Building – Exterior Soffit** |
| 31 | 9” Floor Tile – Light Brown with Long White Streaks |
| **31A** | **Black Mastic on HA #31** |
| 32 | Paper Insulation on HVAC Duct Seams – Original Building |
| 33 | Paper Backing on 1’ x 2’ Steel Ceiling Tiles |
| **34** | **Acoustical Ceiling Plaster – Original Building – Cafeteria (previously identified as asbestos-containing)** |
| 35 | 12” Floor Tile – Tan with Black, Brown and White Streaks |
| **35A** | **Black Mastic on HA #35** |

**Table 3-2 Homogeneous Area Descriptions – Oakwood Jr/Sr High School**

| HA# | Description of Material – Bold Type Indicates Asbestos-Containing |
|---|---|
| 36 | 12” Ceiling Tile Adhesive – Original Building |
| 37 | 12” Ceiling Tile – Medium Pin Holes – Original Building |
| 38 | 12” Floor Tile – Peach with Small Brown and White Streaks |
| **38A** | **Black Mastic on HA #38** |
| 39 | Cove Base Adhesive – Tan |
| 40 | 12” Floor Tile – White with Green, Red and Tan Flecks |
| 40A | Yellow Mastic on HA #40 |
| 41 | Laboratory Counter Tops – Black |
| **42** | **Vapor Barrier Beneath Original Building Gym Floor (assumed to be asbestos-containing)** |
| **43** | **Refractory Insulation on Inside access doors to Boilers (assumed to be asbestos-containing)** |
| **44** | **Tank Insulation** |
| 45 | 12” Floor Tile – Blue with Red, White and Dark Blue Spots |
| 45A | Yellow Mastic on HA #45 |
| 46 | 12” Ceiling Tile Adhesive – 1932 Addition Building |
| 47 | Drywall/Compound – 1932 Addition |
| **48** | **Dry Erase Board Adhesive – 1932 Addition (assumed to be asbestos-containing)** |
| 49 | 12” Floor Tile – White, Green, Red Mixed |
| 49A | Black Mastic on HA #49 |
| 50 | 2’ x 2’ Floor Tile – Tan with White and Grey Streaks |
| 50A | Yellow Mastic on HA #50 |
| **51** | **Transite Fume Hood Panels (previously identified as asbestos-containing)** |
| **52** | **Vapor Barrier Beneath 1932 Building Gym Floor (assumed to be asbestos-containing)** |

**Table 3-2 Homogeneous Area Descriptions – Oakwood Jr/Sr High School**

| HA# | Description of Material – Bold Type Indicates Asbestos-Containing |
|---|---|
| 53 | 12” Floor Tile – Beige with Brown and White Streaks |
| 53A | Yellow Mastic on HA #53 |
| **54** | **Dry Erase Board Adhesive – 1932 Addition (assumed to be asbestos-containing)** |
| **55** | **9” Floor Tile – Tan** |
| 55A | Black Mastic on HA #55 |
| **56** | **9” Floor Tile – Brown** |
| 56A | Black Mastic on HA #56 |
| 57 | Linoleum – Tan with Small Grey Speckles |
| 57A | Green Mastic on HA #57 |
| 58 | Textured Finish on Ceilings |
| 59 | 12” Floor Tile – Tan with Dark Brown and White Spots |
| 59A | Yellow Mastic on HA #59 |
| **60** | **Step Treads – Brown with White Streaks – Stairwell G Only** |
| 60A | Brown Mastic on HA #60 |
| **61** | **Caulking on Steel Window Frames – Stairwell G** |
| **62** | **Glass Bedding on Steel Window Frames – Stairwell G** |
| 63 | Caulking on Aluminum Window Frames – Original Building |
| 64 | Caulking on Exterior Entrance Door Frames – Original Building |
| **65** | **Caulking on Aluminum Window Frames – 1932 Building** |
| **66** | **Caulking on Exterior Entrance Door Frames – 1932 Building** |
| **67** | **Glass Bedding on Leaded Glass Windows – 1932 Building** |
| 68 | Caulking on Aluminum Window Frames – 1960 Building |

**Table 3-2 Homogeneous Area Descriptions – Oakwood Jr/Sr High School**

| HA# | Description of Material – Bold Type Indicates Asbestos-Containing |
|---|---|
| 69 | Slate Roof – Original Building |
| **70** | **Vapor Barrier Beneath Slate Roof – Original Building** |
| 71 | Slate Roof – 1932 Building |
| 72 | Vapor Barrier Beneath Slate Roof – 1932 Building |
| 73 | Stucco – Original Building |

## 4.0 Inventory of Asbestos-Containing Materials

The following table presents a list of asbestos-containing materials identified during the 2019 asbestos inspection.

| Room/Location | Material Type | Condition/ Hazard Rank | Estimated Quantity |
|---|---|---|---|
| Original Building Room 302 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 600 sf. (beneath carpet) |
| Original Building Room 301 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 768 sf. (beneath carpet) |
| Original Building Room 304 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 704 sf. (beneath carpet) |
| Original Building Room 305 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 880 sf. (beneath carpet) |
| Original Building Room 306 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 1,260 sf. (beneath carpet) |
| Original Building Room 307 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 704 sf. (beneath carpet) |
| **Original Building Room 307** | **Fitting Insulation** | **Good/3** | **3 fittings (in closet)** |
| **Original Building Storage Room by Room 310** | **Preformed Block Pipe Insulation** | **Good/2** | **8 lf.** |
| Original Building Faculty Restroom Near Room 308 | Fitting Insulation | Good/3 | 3 fittings (in wall chase) |
| Original Building Room 310 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 840 sf. (beneath carpet) |
| Original Building Custodial Closet Near Room 309 | Fitting Insulation | Good/3 | 6 fittings (in wall chase) |
| Original Building Room 309 | 9” Floor Tile/Mastic (HA #7/7A) | Non-Friable | 335 sf. (beneath carpet) |
| Original Building Room 300 | Black Mastic Beneath 12” Floor Tile (HA #12) | Non-Friable | 80 sf. |
| **Original Building Third Floor Hallway** | **Preformed Block Pipe Insulation** | **Fair/4** | **30 lf. (above ceiling)** |
| Original Building Room 211 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 768 sf. (beneath carpet) |
| Original Building Room 210 | 9” Floor Tile/Mastic (HA #14/14A) | Non-Friable | 768 sf. (beneath carpet) |

| Room/Location | Material Type | Condition/ Hazard Rank | Estimated Quantity |
|---|---|---|---|
| Original Building Men's Restroom Near Room 211 | Fitting Insulation | Good/3 | 8 fittings (in wall chase) |
| Original Building Men's Restroom Near Room 211 | Preformed Block Pipe Insulation | Fair/4 | 12 lf. (in chase) |
| Original Building Room 202 | 9" Floor Tile/Mastic (HA #1/1A) | Non-Friable | 1,056 sf. (beneath carpet) |
| Original Building Room 209 | 9" Floor Tile/Mastic (HA #1/1A) | Non-Friable | 384 sf. (beneath carpet) |
| Original Building Room 203 | 9" Floor Tile/Mastic (HA #1/1A) | Non-Friable | 816 sf. (beneath carpet) |
| Original Building Room 204 | 9" Floor Tile/Mastic (HA #1/1A) | Non-Friable | 768 sf. (beneath carpet) |
| Original Building Mech/Data Room | Fitting Insulation | Good/3 | 4 fittings |
| Original Building Room 208 | 9" Floor Tile/Mastic (HA #1/1A) | Non-Friable | 720 sf. (beneath carpet) |
| Original Building Room 205 | 9" Floor Tile/Mastic (HA #1/1A) | Non-Friable | 768 sf. (beneath carpet) |
| Original Building Women's Restroom Near Room 205 | Preformed Block Pipe Insulation | Poor/7 | 30 lf. (in chase) |
| Original Building Room 207 | 9" Floor Tile/Mastic (HA #1/1A, #17/17A) | Non-Friable | 912 sf. (beneath carpet) |
| Original Building Room 207 | Air Cell Pipe Insulation | Fair/4 | 5 lf. (above ceiling) |
| Original Building Room 207 | Air Cell Pipe Insulation | Good/3 | 22 lf. (below ceiling) |
| Original Building Room 207B | 9" Floor Tile/Mastic (HA #1/1A) | Non-Friable | 210 sf. (beneath carpet) |
| Original Building Room 207C | 9" Floor Tile/Mastic (HA #1/1A) | Non-Friable | 210 sf. (beneath carpet) |
| Original Building Room 206 | Black Mastic Beneath Tile (HA #21A) | Non-Friable | 1,368 sf. (beneath carpet) |

| Room/Location | Material Type | Condition/ Hazard Rank | Estimated Quantity |
|---|---|---|---|
| Original Building Faculty Restroom Near Room 206 | Fitting Insulation | Good/3 | 12 fittings (in wall chase) |
| Original Building Auditorium Ceiling | Canvas Ceiling Material with Horse Hair | Good/2 | 9,350 sf. |
| Original Building Back Entrance to Auditorium | Canvas Ceiling Material with Horse Hair | Good/2 | 1,560 sf. |
| Original Building Room S21 | Black Mastic Beneath Tile (HA #21A) | Non-Friable | 80 sf. (beneath carpet) |
| Original Building Kitchen | Black Mastic Beneath Tile (HA #31A) | Non-Friable | 1,479 sf. |
| Original Building Kitchen | Air Cell Pipe Insulation | Fair/5 | 60 lf. (above ceiling) |
| Original Building Kitchen | Paper Insulation on HVAC Duct | Fair/5 | 20 sf. (above ceiling) |
| Original Building Cafeteria | Acoustical Plaster | Good/3 | 3,052 sf. |
| Original Building Cafeteria | Black Mastic Beneath Tile (HA #35A) | Non-Friable | 2,948 sf. |
| Original Building Cafeteria | Air Cell Pipe Insulation | Fair/5 | 70 lf. (above ceiling) |
| Original Building Back Area off Cafeteria | Black Mastic Beneath Tile (HA #35A) | Non-Friable | 728 sf. |
| Original Building Back Area off Cafeteria | Fitting Insulation | Good/3 | 25 fittings (above ceiling) |
| Original Building Fan Room off Cafeteria | Fitting Insulation | Good/3 | 6 fittings |
| Original Building Fan Room off Cafeteria | Preformed Block Pipe Insulation | Poor/7 | 12 lf. |
| Original Building Rooms 101 A/B off Cafeteria | Black Mastic Beneath Tile (HA #38A) | Non-Friable | 588 sf. |
| Original Building Rooms 101 A/B off Cafeteria | Air Cell Pipe Insulation | Fair/6 | 6 lf. |
| Original Building Stairwell Near Cafeteria | Air Cell Pipe Insulation | Fair/6 | 10 lf. (exposed) |

| Room/Location | Material Type | Condition/ Hazard Rank | Estimated Quantity |
|---|---|---|---|
| Original Building Custodial Area next to Cafeteria | Air Cell Pipe Insulation | Fair/4 | 12 lf. |
| Original Building Custodial Area next to Cafeteria | Air Cell Pipe Insulation | Poor/7 | 8 lf. (debris on floor) |
| Original Building Custodial Area next to Cafeteria | Fitting Insulation | Good/3 | 10 fittings |
| Original Building Custodial Storage Room | Air Cell Pipe Insulation | Fair/6 | 30 lf. |
| Original Building 1st Floor Hallway | Air Cell Pipe Insulation | Fair/4 | 272 lf. (above ceiling) |
| Original Building Women's R/R Near Cafeteria | Air Cell Pipe Insulation | Fair/5 | 10 lf. (above ceiling) |
| Original Building Women's R/R Near Cafeteria | Air Cell Pipe Insulation | Fair/4 | 4 lf. (above ceiling) |
| Original Building Custodial Area next to Women's R/R | Air Cell Pipe Insulation | Fair/4 | 12 lf. (in wall chase) |
| Original Building Mechanical Room | Preformed Block Pipe Insulation | Fair/6 | 13 lf. |
| Original Building Air Handler Room off Mechanical Room | Preformed Block Pipe Insulation | Fair/6 | 48 lf. |
| Original Building Air Handler Room off Mechanical Room | Preformed Block Pipe Insulation | Fair/5 | 20 lf. |
| Original Building Room 109A | Air Cell Pipe Insulation | Good/3 | 75 lf. |
| Original Building Connector off Room 109A | Air Cell Pipe Insulation | Good/3 | 3 lf. |
| Original Building Kitchen Area off Connector | Air Cell Pipe Insulation | Fair/5 | 40 lf. (above ceiling) |
| Original Building Gym (beneath wood floor) | Vapor Barrier | Non-Friable | 4,500 sf. (assumed) |
| Original Building Room 102 | Black Mastic Beneath Tile (HA #38A) | Non-Friable | 768 sf. |
| Original Building Room 108 | Air Cell Pipe Insulation | Good/2 | 62 lf. (above ceiling) |

| Room/Location | Material Type | Condition/ Hazard Rank | Estimated Quantity |
|---|---|---|---|
| Original Building Room 108 | Fitting Insulation | Good/2 | 3 fittings (above ceiling) |
| Original Building Room 107 | Air Cell Pipe Insulation | Good/2 | 40 lf. (above ceiling) |
| Original Building Room 107A | Air Cell Pipe Insulation | Good/2 | 50 lf. (above ceiling) |
| Original Building Room 103 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 768 sf. (beneath carpet) |
| Original Building Men’s R/R Near Room 103 | Preformed Block Pipe Insulation | Fair/5 | 4 lf. (above ceiling) |
| Original Building Custodial Area off Men’s R/R | Preformed Block Pipe Insulation | Poor/7 | 4 lf. |
| Original Building Room 104 | Air Cell Pipe Insulation | Fair/4 | 35 lf. (above ceiling) |
| Original Building Room 104 | Preformed Block Pipe Insulation | Fair/5 | 120 lf. (above ceiling) |
| Original Building Room 104 | Fitting Insulation | Good/2 | 12 fittings (above ceiling) |
| Original Building Room 105A | Fitting Insulation | Good/3 | 13 fittings |
| Original Building Room 105 | Preformed Block Pipe Insulation | Fair/5 | 125 lf. (above ceiling) |
| Original Building Room 105 | Preformed Block Pipe Insulation | Good/3 | 3 lf. |
| Original Building Room 106 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 720 sf. (beneath carpet) |
| Original Building Room 106 | Preformed Block Pipe Insulation | Fair/5 | 80 lf. (above ceiling) |
| Original Building Room 110 | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 432 sf. (beneath carpet) |
| Original Building Room 110 Offices (2) | 9” Floor Tile/Mastic (HA #1/1A) | Non-Friable | 432 sf. (beneath carpet) |
| Original Building Pipe Chase Near Room 110 | Preformed Block Pipe Insulation | Poor/7 | 30 lf. (debris on floor) |

| Room/Location | Material Type | Condition/ Hazard Rank | Estimated Quantity |
|---|---|---|---|
| Original Building Lower Level Custodial Area | Black Mastic Beneath Tile (HA #31A) | Non-Friable | 320 sf. |
| Original Building Lower Level Custodial Area | Preformed Block Pipe Insulation | Good/3 | 50 lf. |
| Original Building Lower Level Boiler Room | Preformed Block Pipe Insulation | Good /3 | 3 lf. (near steps) |
| Original Building Lower Level Boiler Room | Refractory Insulation on Boiler Access Doors | Non-Friable | 40 sf. (assumed) |
| Original Building Lower Level R/R off Custodial Area | Black Mastic Beneath Tile (HA #31A) | Non-Friable | 48 sf. |
| Original Building Lower Level R/R off Custodial Area | Preformed Block Pipe Insulation | Good/3 | 6 lf. |
| Original Building Lower Level Electrical Room (leads to tunnels) | Preformed Block Pipe Insulation | Good/3 | 50 lf. |
| Original Building Lower Level Tank/Air Handler Area (leads to tunnels) | Preformed Block Pipe Insulation | Good/3 | 120 lf. |
| Original Building Lower Level Tank/Air Handler Area (leads to tunnels) | Preformed Block Pipe Insulation | Fair/5 | 240 lf. |
| Original Building Lower Level Tank/Air Handler Area (leads to tunnels) | Tank Insulation | Fair/6 | 78 sf. |
| Original Building Lower Level Inside Air Handler Area | Preformed Block Pipe Insulation | Poor/7 | 12 lf. (debris on floor) |
| Original Building Lower Level Inside Air Handler Area | Fitting Insulation | Good/3 | 6 fittings |
| Original Building Tunnels | Preformed Block Pipe Insulation | Fair/5 | 1,400 lf. |
| Original Building Tunnels | Fitting Insulation | Fair/5 | 68 fittings |
| Original Building (in hidden wall/pipe chases) | Preformed Block Pipe Insulation | Fair/5 | 700 lf. (assumed) |
| Original Building (in hidden wall chases) | Fitting Insulation | Good/3 | 50 fittings (assumed) |

| Room/Location | Material Type | Condition/ Hazard Rank | Estimated Quantity |
|---|---|---|---|
| 1932 Building Gym (beneath wood floor) | Vapor Barrier | Non-Friable | 5,400 sf. (assumed) |
| 1932 Building Gym (corner pipe chases) | Preformed Block Pipe Insulation | Fair/5 | 30 lf. (2 chases) |
| 1932 Building Room 133D | Preformed Block Pipe Insulation | Fair/4 | 80 lf. (above ceiling) |
| 1932 Building Locker Room Next to NE Exit Door | Preformed Block Pipe Insulation | Fair/4 | 80 lf. (above ceiling) |
| 1932 Building Room 132A | Preformed Block Pipe Insulation | Fair/4 | 40 lf. (above ceiling) |
| 1932 Building Room 131 | Chalk Board Adhesive | Non-Friable | 192 sf. (assumed) |
| 1932 Building Room 132 | Chalk Board Adhesive | Non-Friable | 192 sf. (assumed) |
| 1932 Building Room 134 | Chalk Board Adhesive | Non-Friable | 192 sf. (assumed) |
| 1932 Building Room 135 | 9” Floor Tile (HA #55) | Non-Friable | 572 sf. |
| 1932 Building Room 135 | Chalk Board Adhesive | Non-Friable | 192 sf. (assumed) |
| 1932 Building Room 136 | 9” Floor Tile (HA #55, #56) | Non-Friable | 672 sf. (2 layers) |
| 1932 Building Room 137 | Chalk Board Adhesive | Non-Friable | 192 sf. (assumed) |
| 1932 Building Room 138 | Chalk Board Adhesive | Non-Friable | 192 sf. (assumed) |
| 1932 Building Room 140 | Chalk Board Adhesive | Non-Friable | 192 sf. (assumed) |
| 1932 Building Room 112 | Preformed Block Pipe Insulation | Fair/6 | 45 lf. (by roll up door) |
| 1932 Building Room 130 | Chalk Board Adhesive | Non-Friable | 88 sf. (assumed) |
| 1932 Building Room 129 | Chalk Board Adhesive | Non-Friable | 88 sf. (assumed) |

| Room/Location | Material Type | Condition/ Hazard Rank | Estimated Quantity |
|---|---|---|---|
| 1932 Building Room 128A | Sink Undercoating (HA #22) | Non-Friable | 4 sf. (1 sink) |
| 1932 Building Pipe Tunnels | Preformed Block Pipe Insulation | Fair/4 | 2,200 lf. (estimate) |
| 1932 Building Pipe Tunnels | Fitting Insulation | Good/1 | 600 fittings (estimate) |
| 1932 Building Stairwell G | Step Treads (HA #60) | Non-Friable | 90 sf. |
| 1932 Building Stairwell G | 9” Floor Tile/Mastic (HA #7/7A) | Non-Friable | 52 sf. |
| 1932 Building Stairwell G | Caulking on Steel Window Frames | Fair/5 | 40 lf. |
| 1932 Building Stairwell G | Glass Bedding on Steel Windows | Fair/4 | 160 lf. |
| 1960 Building Room 212D | Black Mastic Beneath Tile (HA #31A) | Non-Friable | 260 sf. |
| 1960 Building Room 214 | Dry Erase Board Adhesive | Non-Friable | 120 sf. (assumed) |
| 1960 Building Room 215 | Dry Erase Board Adhesive | Non-Friable | 120 sf. (assumed) |
| 1960 Building Room S24 | Black Mastic Beneath Tile (HA #31A) | Non-Friable | 100 sf. |
| 1960 Building Room 216 | Black Mastic Beneath Tile (HA #31A) | Non-Friable | 128 sf. |
| 1960 Building Room 217 | Sink Undercoating (HA #22) | Non-Friable | 8 sf. (1 sink) |
| 1960 Building Room 119 | Transite Fume Hood Panels | Non-Friable | 80 sf. (2 hoods) |
| 1960 Building Room 117 | Transite Fume Hood Panels | Non-Friable | 120 sf. (3 hoods) |
| 1960 Building Pipe Tunnels | Fitting Insulation | Good/1 | 200 fittings (estimate) |

| Room/Location | Material Type | Condition/ Hazard Rank | Estimated Quantity |
|---|---|---|---|
| Original Building | Caulking on Exterior Entrance Door Frames | Non-Friable | 440 lf. |
| Original Building | Vapor Barrier Beneath Slate Roofing | Non-Friable | 20,000 sf. (estimate) |
| 1932 Building | Caulking on Exterior Aluminum Window Frames | Non-Friable | 2,655 lf. |
| 1932 Building | Caulking on Exterior Entrance Door Frames | Non-Friable | 120 lf. |
| 1932 Building | Glass Bedding on Leaded Glass Windows | Non-Friable | 630 lf. |

# Appendix A

## Laboratory Results

## Appendix B

### Asbestos Hazard Evaluation Specialist License