

# **SUPPLEMENTAL HAZARDOUS MATERIALS SURVEY REPORT**

## **Arts & Communication Magnet Academy** 11375 SW Center Street Beaverton, OR 97005

Prepared for:

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## **EXECUTIVE SUMMARY**

TRC Environmental Corporation (TRC) was contracted by the Beaverton School District to conduct a supplemental hazardous materials survey, including collection of bulk samples, laboratory analysis, and preparation of a report for the Arts & Communication Magnet Academy located at 11375 SW Center Street in Beaverton, Oregon 97005. The survey was conducted due to the District's future planned demolition of the building. Mr. Ed Gay and Mr. Jason Stone, AHERA accredited building inspectors, performed the survey between December 21<sup>st</sup> and January 11<sup>th</sup>, 2017. The survey activities included the review of prior sampling documentation and reports provided by the District, inspection and assessment of accessible suspect building materials, collection of bulk samples of suspect asbestos containing building materials that had previously not be sampled, and submission of bulk samples for laboratory analysis. In addition to the bulk sampling of suspect asbestos containing building materials, representative paint chip samples were collected throughout the building to determine the presence of lead. TRC also conducted a visual inspection for other suspect hazardous materials such as polychlorinated biphenyl containing materials (PCBs) as well as mercury containing thermostats and light tubes.

## **ASBESTOS MATERIAL SUMMARY**

Suspect asbestos containing building materials were sampled and submitted under the chain-of-custody (COC) protocol to an accredited laboratory for polarized light microscopy (PLM) bulk sample analysis. Inspection, sampling and analytical procedures were performed in general accordance with the U.S. Environmental Protection Agency's (EPA's) National Emission Standards for Hazardous Air Pollutants (NESHAP) EPA 40 CFR 61 Subpart M, the EPA Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763, and Federal Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101 guidelines.

The following materials sampled during this investigation and prior investigations were identified as asbestos containing materials:

- Black Mastic associated with non-ACM 12" x 12" Blue Floor Tile
- 9" x 9" Floor Tile (Various Colors) and Associated Black Mastic
- White Thermal Pipe Insulation
- Black Sink Undercoating
- Corrugated (Aircell) Pipe Insulation
- Black Paper Beneath Wood Floors in Library (PACM)
- Floor Tile and Associated Mastic Beneath Wood Floors in Dance Rooms #156 & #158
- Window Glazing throughout the Window System

Additionally, any materials uncovered during demolition activities that are not addressed in this inspection report or prior reports for the building are considered presumed asbestos containing materials and must be sampled by an accredited asbestos inspector prior to disturbance, or they must be treated as asbestos containing.

## **LEAD PAINT MATERIAL SUMMARY**

Lead-based paint (LBP) is defined by the United States Department of House and Urban Development (HUD) as any paint, varnish, stain, or other applied coating that has one mg/cm<sup>2</sup> or more of lead or 0.5% by weight (5,000 micrograms per gram [ $\mu\text{g}/\text{g}$ ] or 5,000 parts of lead per

million [ppm]). The United States' Consumer Product Safety Commission (CPSC) banned lead paint in 1977 in residential properties and public buildings (16 Code of Federal Regulations 1303). According the Oregon Occupational Safety and Health Division's (OR OSHA) Program Directive, Lead: Exposure in Construction, "For all occupational exposure to lead occurring in the course of construction work, the standard (1926.62) does not specify a minimum amount or concentration of lead that triggers a determination that lead is present and the potential for occupational exposure exists. Therefore any paint containing less than 0.5% by weight, but greater than the laboratory detection limit is considered to be a lead-containing paint.

Five of the seven paint chip samples collected in conjunction with this survey contained lead in concentrations above the laboratory reporting limits.

Based on applicable federal and state regulations, all identified and/or assumed lead-paints must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove, handle and dispose of lead paints.

### **POLYCHLORINATED BIPHENYL (PCB) MATERIAL SUMMARY**

Polychlorinated Biphenyls (PCBs) are commonly found in fluorescent light ballasts as well as caulking and glazings in construction. No sampling was conducted for PCBs during this investigation; however, these materials should be assumed to contain PCBs and treated as such during the demolition/renovation activities. Typically, all newer light ballasts may say "no-PCB" on the label and thus would not need to be disposed of as PCB containing waste.

Based on applicable federal and state regulations, all PCB-containing or assumed PCB-containing light ballast and other materials must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove and handle PCB-containing materials which will not typically generate a large amount of additional cost above and beyond the general demolition activities. However; disposal/recycling is typically completed by an outside contractor.

### **MERCURY CONTAINING MATERIAL SUMMARY**

Mercury is commonly found in fluorescent light tubes as well as in older wall mounted thermostats. No sampling was conducted for mercury during this investigation; however, these materials should be assumed to contain mercury and treated as such during the demolition/renovation activities. TRC did not observe any suspect mercury containing thermostats, as they all appear to be of newer vintage. However, it is possible for mercury containing thermostats to be located in the building.

Based on applicable federal and state regulations, all mercury-containing or assumed mercury-containing fluorescent light tubes and thermostats must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove and handle mercury-containing materials which will not typically generate a large amount of additional cost above and beyond the general demolition activities. However; disposal/recycling is typically completed by an outside contractor.

## INTRODUCTION

A supplemental hazardous materials survey was conducted by TRC at Arts & Communication Magnet Academy, located at 11375 SW Center Street in Beaverton, Oregon. It was reported by the client that this limited asbestos survey is being conducted in conjunction with their renovation project. The survey activities were performed between December 21<sup>st</sup> and January 11<sup>th</sup>, 2018, as well as between January 2<sup>nd</sup> and January 9<sup>th</sup>, 2019 and included the review of prior sampling documentation and reports as well as the inspection, assessment and bulk sampling of suspect asbestos containing building materials that had not previously been sampled. Sample locations are presented on the Sample Location Diagram in Appendix A.

Mr. Ed Gay and Mr. Jason Stone, AHERA accredited building inspectors, conducted the asbestos survey inspection and sampling activities. Copies of training certificates and state licenses (where applicable) are presented in Appendix C, Inspector Certifications.

## BACKGROUND

### Asbestos Containing Materials

The United States Environmental Protection Agency (EPA) define an asbestos-containing material (ACM) as any material containing more than one percent (>1.0%) asbestos by weight. In addition, ACMs are designated as:

Friable asbestos - material which can be crumbled, pulverized or reduced to powder by hand pressure, a.k.a. Regulated Asbestos Containing Materials (RACM).

Category I Non-friable - includes resilient floor coverings, asphalt roofing products, gaskets and packing.

Category II Non-friable - any non-friable ACM that is not in Category I (i.e. Asbestos-cement (Transite) siding or roofing material).

### OSHA Regulated Materials

The Occupational Safety and Health Administration (OSHA) regulates all materials containing any detectable level of asbestos by weight, including those materials containing 1.0% or less.

### Asbestos Sampling and Analytical Procedures

Representative bulk samples of suspect asbestos-containing building materials were randomly collected from the interior of the building. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.),
- Application (sprayed or trowel-on, assembly into a system, etc.),
- Material function (thermal insulation, floor tile, wallboard system, etc.).

The bulk samples were collected, labeled, and shipped to the certified analytical laboratory under proper COC documentation, and condition and approximate quantity assessments were performed by the accredited inspector during the inspection. Laboratory services were provided by TRC Environmental Laboratory, in Windsor, Connecticut, as well as EMC in Phoenix, AZ, both are National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratories (NVLAP code #101424-0 and #101926-0).

Bulk samples were analyzed by PLM utilizing the EPA’s Test Methods: Methods for the Determination of Asbestos in Bulk Building Materials (EPA 600/R-93/116, July 1993) and the McCrone Research Institute’s The Asbestos Particle Atlas as method references.

Analysis by PLM was performed by visual observation of the bulk sample and slides prepared of the bulk sample for microscopic examination and identification. The samples were analyzed for asbestos (Chrysotile, Amosite, Crocidolite, Anthophyllite, and Actinolite/Tremolite), fibrous non-asbestos constituents (mineral wool, cellulose, etc.) and non-fibrous constituents. Using a stereoscope, the microscopist visually estimates the relative amounts of each constituent by determining the estimated area of the asbestos compared with the area estimate of the total sample.

Lead-based and Lead-containing Paints

Lead-based paint (LBP) is defined by the United States Department of House and Urban Development (HUD) as any paint, varnish, stain, or other applied coating that has one mg/cm<sup>2</sup> or more of lead or 0.5% by weight (5,000 micrograms per gram [µg\g] or 5,000 parts of lead per million [ppm]).

According the Occupational Safety and Health Division’s (OSHA) Program Directive, Lead: Exposure in Construction, “For all occupational exposure to lead occurring in the course of construction work, the standard (1926.62) does not specify a minimum amount or concentration of lead that triggers a determination that lead is present and the potential for occupational exposure exists. Therefore any paint containing less than 0.5% by weight, but greater than the laboratory detection limit is considered to be a lead-containing paint.

Laboratory services were provided by International Asbestos Testing Laboratories (IATL), in Mount Laurel, New Jersey, a National Lead Laboratory Accreditation Program (NLLAP) certified laboratory (NVLAP code #100188). Paint Chip samples were analyzed by EPA Method 7420.

**ASBESTOS FINDINGS & RECOMMENDATIONS**

The following table presents the location and quantities of each suspect building material identified and sampled during this survey as well as all applicable analytical results:

| Sample No.                                   | Material   | Sample Location                                | Asbestos Content       | Approximate Quantity |
|--|--|--|------------------------|----------------------|
| ACMA-01A<br>ACMA-01B<br>ACMA-01C             | 12” x 12” Ceiling Tile<br>(Slotted)                            | East Entry<br>Hall East Corridor<br>Upper Hall | ND                     | NA                   |
| ACMA-02A<br>ACMA-02B<br>ACMA-02C             | 12” x 12” Ceiling Tile<br>(Pinholes)                           | Room 158                                       | ND                     | NA                   |
| ACMA-03A<br>ACMA-03B                         | 2’ x 2’ Ceiling Tile<br>(Fissures)                             | Office in Room 136                             | ND                     | NA                   |
| ACMA-04A<br>ACMA-04B                         | 2’ x 4’ Ceiling Tile<br>(Fissures)                             | Office in Room 130                             | ND                     | NA                   |
| ACMA-05A<br>ACMA-05B<br>ACMA-05C<br>ACMA-05D | 12” x 12” Ceiling Tile<br>(Fissures) with Associated<br>Mastic | Main Entry South<br>Computer Room              | CT – ND<br>Mastic – ND | NA                   |



| Sample No.   | Material   | Sample Location   | Asbestos Content                                      | Approximate Quantity |
|--|--|---|---|----------------------|
| ACMA-06A<br>ACMA-06B<br>ACMA-06C<br>ACMA-06D   | 2' x 4' Ceiling Tile<br>(Fissures)                                 | Library Office<br>Library Station<br>Library Hall<br>Downstairs               | ND  | NA                   |
| ACMA-07A<br>ACMA-07B<br>ACMA-07C   | Exterior Window Caulk  | NE Exterior<br>South Center Exterior<br>SW Exterior                           | ND  | NA                   |
| ACMA-08A<br>ACMA-08B<br>ACMA-08C   | Purple Sheet Vinyl<br>Flooring (Pebble Pattern)                    | Principal's Restroom  | ND  | NA                   |
| ACMA-09A<br>ACMA-09B<br>ACMA-09C   | Off-White Compound<br>Beneath Carpet                               | Office  | ND  | NA                   |
| ACMA-10A<br>ACMA-10B<br>ACMA-10C<br>ACMA-10D<br>ACMA-10E   | Off-White 12" x 12" Floor<br>Tile & Associated Glue                | N. End (Upper Hall)<br>Room 152<br>W. End (Main Hall)<br>Room 140<br>Room 134 | Tile – ND<br>Glue – ND                                | NA                   |
| ACMA-11A<br>ACMA-11B<br>ACMA-11C<br>ACMA-11D<br>ACMA-11E<br>ACMA-11F<br>ACMA-11G<br>ACMA-11H<br>ACMA-11I | 9" x 9" Floor Tile<br>(Various Colors) &<br>Associated Mastic      | Throughout  | Tile – 10%<br>Chrysotile<br>Mastic – 5%<br>Chrysotile | 8,000 SF             |
| ACMA-12A<br>ACMA-12B<br>ACMA-12C   | Red Ceramic Tile<br>Grout/Glue                                     | Boys' Restroom<br>(Main Hall)<br>Girls' Restroom<br>(East Corridor)           | ND  | NA                   |
| ACMA-13A<br>ACMA-13B<br>ACMA-13C   | White & Gray Ceramic Tile<br>Grout/Glue                            | Boys' Restroom<br>(Main Hall)<br>Girls' Restroom<br>(East Corridor)           | ND  | NA                   |
| ACMA-14A<br>ACMA-14B<br>ACMA-14C   | Brown & Gray 12" x 12"<br>Textured Floor Tile &<br>Associated Glue | East Corridor<br>(Between A150 & A148)  | Tile – ND<br>Glue – ND                                | NA                   |
| ACMA-15A<br>ACMA-15B<br>ACMA-15C   | Gray 12" x 12" Floor Tile<br>& Associated Glue                     | A116<br>A128  | Tile – ND<br>Glue – ND                                | N/A                  |
| ACMA-16A<br>ACMA-16B<br>ACMA-16C   | Black Fiber Panels   | Library   | ND  | N/A                  |
| ACMA-17A<br>ACMA-17B<br>ACMA-17C   | Brown 18" x 18" Pirell<br>Floor Tile & Associated<br>Mastic        | Stairs From Library to<br>Counseling  | Tread – ND<br>Mastic – ND                             | N/A                  |
| ACMA-18A<br>ACMA-18B<br>ACMA-18C   | Beige/Brown 12" x 12"<br>Floor Tile & Mastic                       | Counseling  | Tile – ND<br>Mastic – ND                              | N/A                  |

| Sample No.   | Material   | Sample Location   | Asbestos Content                                     | Approximate Quantity |
|--|--|---|--|----------------------|
| ACMA-19A<br>ACMA-19B<br>ACMA-19C                                     | Dark Brown 12" x 12" Floor Tile & Mastic                   | Counseling Lunch Room<br>Hall by Xerox<br>Hall by Restroom                    | Tile – ND<br>Mastic – ND                             | N/A                  |
| ACMA-20A<br>ACMA-20B   | Gold/Gray Swirl Sheet Vinyl Flooring                       | Small Bath  | ND   | N/A                  |
| <b>ACMA-21A<br/>ACMA-21B</b>   | <b>12" x 12" Blue Floor Tile &amp; Associated Mastic</b>   | <b>Food Court</b>   | <b>Tile – ND<br/>Mastic – 3%<br/>Chrysotile</b>      | <b>3,850 SF</b>      |
| ACMA-22A<br>ACMA-22B   | Beige 12" x 12" Floor Tile & Associated Mastic             | Small Room Behind Galley  | Tile – ND<br>Mastic – ND                             | N/A                  |
| ACMA-23A<br>ACMA-23B<br>ACMA-23C                                     | Carpet Mastic with Tile Beneath Carpet & Associated Mastic | Room 136<br>Room 130  | Mastic - ND<br>Tile – ND<br>Mastic – ND              | N/A                  |
| ACMA-24A<br>ACMA-24B   | Cream 12" x 12" Floor Tile & Associated Mastic             | Room LL102<br>Small Room  | Tile – ND<br>Mastic – ND<br>Tile – ND<br>Mastic – ND | N/A                  |
| ACMA-25A<br>ACMA-25B<br>ACMA-25C<br>ACMA-25D                         | 4" Light Brown Covebase & Mastic                           | Room LL102<br>Room LL103<br>Lower Lever by Lunch Room                         | Covebase – ND<br>Mastic – ND                         | N/A                  |
| ACMA-26A<br>ACMA-26A   | Tile & Associated Mastic Under Carpet                      | Lower Level Counseling Near Room LL103  | Tile – ND<br>Mastic – ND                             | N/A                  |
| ACMA-27A<br>ACMA-27B<br>ACMA-27C<br>ACMA-27D<br>ACMA-27E             | 4" Black Covebase & Associated Mastic                      | Library Main Floor<br>By Room 102<br>By Student Store<br>Room 134<br>Room 136 | Covebase – ND<br>Mastic – ND                         | N/A                  |
| ACMA-28A<br>Through<br>ACMA-28V                                      | Gypsum Board & Joint Compound and Plaster Systems          | Walls/Ceilings Throughout   | GB & JC – ND<br>Plaster – ND                         | N/A                  |
| <b>ACMA-29A<br/>ACMA-29B<br/>ACMA-29C</b>                            | <b>Pipe Insulation and Hard Fittings</b>                   | <b>Throughout (Tunnels, Wall &amp; Ceiling Cavities)</b>                      | <b>20%<br/>Chrysotile<br/>&amp; 20 %<br/>Amosite</b> | <b>3,600 LF</b>      |
| ACMA-30A<br>ACMA-30B<br>ACMA-30C                                     | Concrete   | Boiler Room   | ND   | N/A                  |
| ACMA-31A<br>ACMA-31B<br>ACMA-31C<br>ACMA-31D<br>ACMA-31E<br>ACMA-31F | Exterior Stucco  | Throughout  | ND   | N/A                  |
| ACMA-32A<br>ACMA-32B<br>ACMA-32C                                     | Black Work Tops  | Room 128  | ND   | N/A                  |
| <b>ACMA-33A<br/>ACMA-33B<br/>ACMA-33C</b>                            | <b>Black Sink Undercoating Insulation</b>                  | <b>Various Rooms Throughout</b>   | <b>3%<br/>Chrysotile</b>                             | <b>10 Sinks</b>      |

| Sample No.                       | Material                                     | Sample Location  | Asbestos Content         | Approximate Quantity |
|----------------------------------|--|--|--------------------------|----------------------|
| ACMA-34A<br>ACMA-34B<br>ACMA-34C | Corrugated Pipe Insulation                   | Throughout (Tunnels, Wall & Ceiling Cavities)          | 70% Chrysotile           | 3,600 LF             |
| ACMA-35A<br>ACMA-35B<br>ACMA-35C | Pink 12" x 12" Floor Tile & Associated Glue  | Staff Restroom   | Tile – ND<br>Mastic – ND | N/A                  |
| ACMA-36A<br>ACMA-36B<br>ACMA-36C | Carpet Glue                                  | Room 130<br>Room 138<br>Room 132                       | ND                       | N/A                  |
| ACMA-37A<br>ACMA-37B<br>ACMA-37C | 1'x1' Ceiling Tile Glue                      | Entry  | ND                       | N/A                  |
| ACMA-38A<br>ACMA-38B<br>ACMA-38C | Fiber Board Vinyl Tape, & Contact Cement     | South Hall<br>East Hall to North<br>East Hall to South | ND                       | N/A                  |
| ACMA-39A<br>ACMA-39B<br>ACMA-39C | Floor Tile and Black Mastic under Wood       | Dance Studio   | 8% Chrysotile            | 1,800 SF             |
| ACMA-40A<br>ACMA-40B<br>ACMA-40C | Univent Vinyl and Glue (Brown)               | Dance Room, A136, A134                                 | Vinyl – ND<br>Glue - ND  | N/A                  |
| ACMA-41A<br>ACMA-41B<br>ACMA-41C | Wood Panel Glue                              | Hallway  | ND                       | N/A                  |
| ACMA-42A<br>ACMA-42B<br>ACMA-42C | White Sink Undercoating                      | A136, A134, A132                                       | ND                       | N/A                  |
| ACMA-43A<br>ACMA-43B<br>ACMA-43C | Countertop Glue                              | A136, A134, A132                                       | ND                       | N/A                  |
| ACMA-44A<br>ACMA-44B<br>ACMA-44C | Gypsum Board and Joint Compound              | A136, A108, A104                                       | G.B. – ND<br>J.C. - ND   | N/A                  |
| ACMA-45A<br>ACMA-45B<br>ACMA-45C | Univent Countertop and Glue (White)          | A132, A130, A132                                       | ND                       | N/A                  |
| ACMA-46A<br>ACMA-46B<br>ACMA-46C | Corkboard System                             | A140, A143, Hallway                                    | ND                       | N/A                  |
| ACMA-47A<br>ACMA-47B<br>ACMA-47C | Gray Sink Undercoating                       | A142, A128, Library                                    | ND                       | N/A                  |
| ACMA-48A<br>ACMA-48B<br>ACMA-48C | 1' x 1' Nailed-on Ceiling Tile with Fissures | A128   | ND                       | N/A                  |
| ACMA-49A<br>ACMA-49B<br>ACMA-49C | Brown/Black Floor Tile with Circles and Glue | Hallway  | Tile - ND<br>Glue - ND   | N/A                  |
| ACMA-50A<br>ACMA-50B<br>ACMA-50C | Wall Plaster                                 | A118, Breakroom  | ND                       | N/A                  |

| Sample No.                       | Material                                  | Sample Location                            | Asbestos Content      | Approximate Quantity |
|----------------------------------|---|--|-----------------------|----------------------|
| ACMA-51A<br>ACMA-51B<br>ACMA-51C | Gray Pebble Vinyl Sheet Flooring and Glue | Staff Restroom                             | VSF – ND<br>Glue – ND | N/A                  |
| ACMA-52A<br>ACMA-52B<br>ACMA-52C | <b>Window Glazing</b>                     | <b>Throughout</b>                          | <b>2% Chrysotile</b>  | <b>4,600 LF</b>      |
| ACMA-53A<br>ACMA-53B<br>ACMA-53C | Black Vapor Barrier                       | Roof Hatch                                 | ND                    | N/A                  |
| ACMA-54A<br>ACMA-54B<br>ACMA-54C | Roof Mastic                               | Roof (Library)                             | ND                    | N/A                  |
| ACMA-55A<br>ACMA-55B<br>ACMA-55C | Sliver Paint                              | Roof (Library, Front Entry, A146)          | ND                    | N/A                  |
| ACMA-56A<br>ACMA-56B<br>ACMA-56C | 3-Tab Roofing                             | Roof - Cafeteria                           | ND                    | N/A                  |
| ACMA-57A<br>ACMA-57B<br>ACMA-57C | Wall Panel Glue                           | Lower Level Restroom                       | ND                    | N/A                  |
| ACMA-58A<br>ACMA-58B<br>ACMA-58C | Built-up Roofing                          | Roof (A136, A130, A146)                    | ND                    | N/A                  |
| ACMA-59A<br>ACMA-59B<br>ACMA-59C | Built-up Roofing                          | Roof (A148, A116, A156)                    | ND                    | N/A                  |
| ACMA-60A<br>ACMA-60B<br>ACMA-60C | Built-up Roofing                          | Roof (A108, Office, A102)                  | ND                    | N/A                  |
| ACMA-61A<br>ACMA-61B<br>ACMA-61C | Built-up Roofing                          | Roof (Library)                             | ND                    | N/A                  |
| ACMA-62A<br>ACMA-62B<br>ACMA-62C | Built-up Roofing                          | Roof (Breeze Way Entry, Storage 6)         | ND                    | N/A                  |
| ACMA-63A<br>ACMA-63B<br>ACMA-63C | Built-up Roofing                          | Roof (Boiler)                              | ND                    | N/A                  |
| ACMA-64A<br>ACMA-64B<br>ACMA-64C | Built-up Roofing                          | Roof (Breeze Way)                          | ND                    | N/A                  |
| ACMA-65A<br>ACMA-65B<br>ACMA-65C | Built-up Roofing                          | Roof (Storage 9, Storage 9/10, Storage 10) | ND                    | N/A                  |

ND = Non-detect

SF = Square feet

LF = Linear Feet

N/A = Not Applicable

Asbestos Containing Materials (ACMs)

Asbestos was detected in the following materials sampled during this and prior investigations:

| Material  | Approximate Location(s)                       | Approximate Quantity |
|---|---|----------------------|
| 9" x 9" Floor Tile (Various Colors) & Associated Mastic | Throughout                                    | 8,000 SF             |
| Mastic Associated with 12" Blue Floor Tile              | Food Court                                    | 3,850 SF             |
| Pipe Insulation and Hard Fittings                       | Throughout (Tunnels, Wall & Ceiling Cavities) | 3,600 LF             |
| Black Sink Undercoating Insulation                      | Throughout                                    | 10 Sinks             |
| Corrugated Pipe Insulation                              | Throughout (Tunnels, Wall & Ceiling Cavities) | 3,600 LF             |
| Floor Tile and Mastic under Wood Flooring               | Dance Studio                                  | 1,800 SF             |
| Window Glazing  | Throughout                                    | 4,600 LF             |

Non-Detect Materials (ND)

Asbestos was not detected in the following materials sampled during this investigation:

| Material   | Location  |
|--|---|
| 12" x 12" Ceiling Tile (Slotted)                             | East Entry, Hall East Corridor, and Upper Hall                            |
| 12" x 12" Ceiling Tile (Pinholes)                            | Room 158  |
| 2' x 2' Ceiling Tile (Fissures)                              | Office in Room 136  |
| 2' x 4' Ceiling Tile (Fissures)                              | Office in Room 130  |
| 12" x 12" Ceiling Tile (Fissures) with Associated Mastic     | Main Entry South and Computer Room  |
| 2' x 4' Ceiling Tile (Fissures)                              | Library Office, Library Station, Library Hall, and Downstairs             |
| Exterior Window Caulk  | Throughout  |
| Purple Sheet Vinyl Flooring (Pebble Pattern)                 | Principal's Restroom  |
| Off-White Compound Beneath Carpet                            | Office  |
| Off-White 12" x 12" Floor Tile & Associated Glue             | N. End (Upper Hall), Room 152, W. End (Main Hall), Room 140, and Room 134 |
| Red Ceramic Tile Grout/Glue                                  | Boys' Restroom (Main Hall), and Girls' Restroom (East Corridor)           |
| White & Gray Ceramic Tile Grout/Glue                         | Boys' Restroom (Main Hall), and Girls' Restroom (East Corridor)           |
| Brown & Gray 12" x 12" Textured Floor Tile & Associated Glue | East Corridor (Between A150 & A148)                                       |
| Gray 12" x 12" Floor Tile & Associated Glue                  | A116 and A128   |
| Black Fiber Panels   | Library   |
| Brown 18" x 18" Pirell Floor Tile & Associated Mastic        | Stairs From Library to Counseling   |
| Beige/Brown 12" x 12" Floor Tile & Mastic                    | Counseling  |
| Dark Brown 12" x 12" Floor Tile & Mastic                     | Counseling Lunch Room, Hall by Xerox, and Hall by Restroom                |
| Gold/Gray Swirl Sheet Vinyl Flooring                         | Small Bath  |

| <b>Material</b>   | <b>Location</b>   |
|---|---|
| 12" x 12" Blue Floor Tile                                     | Food Court  |
| Beige 12" x 12" Floor Tile & Associated Mastic                | Small Room Behind Galley  |
| Carpet Mastic with Tile Beneath Carpet & Associated Mastic    | Room 136 and Room 130   |
| Cream 12" x 12" Floor Tile & Associated Mastic                | Room LL102 and Small Room   |
| 4" Light Brown Covebase & Mastic                              | Room LL102, Room LL103, Room LL103, and Lower Level by Lunch Room         |
| Tile & Associated Mastic Under Carpet                         | Lower Level Counseling and Near Room LL103                                |
| 4" Black Covebase & Associated Mastic                         | Library Main Floor, By Room 102, By Student Store, Room 134, and Room 136 |
| Gypsum Board & Joint Compound, Plaster, and Plaster Partition | Throughout  |
| Concrete  | Boiler Room   |
| Exterior Stucco   | Throughout  |
| Black Work Tops   | Room 128  |
| Pink 12"x12" Floor Tile & Associated Glue                     | Staff Restroom  |
| Carpet Glue   | Room 130, Room 138 & Room 132   |
| 1'x1' Ceiling Tile Glue                                       | Entry   |
| Fiber Board Vinyl Tape, & Contact Cement                      | South Hall, East Hall to North and South                                  |
| Univent Vinyl and Glue (Brown)                                | Throughout  |
| Wood Panel Glue   | Hallway   |
| White Sink Undercoating                                       | A136, A134, A132  |
| Countertop Glue   | Throughout  |
| Gypsum Board and Joint Compound                               | A136, A108, A104  |
| Univent Countertop and Glue (White)                           | Throughout  |
| Corkboard System  | Throughout  |
| Gray Sink Undercoating  | A142, A128, Library   |
| 1' x 1' Nailed-on Ceiling Tile with Fissures                  | A128  |
| Brown/Black Floor Tile with Circles and Glue                  | Hallway   |
| Wall Plaster  | A118, Breakroom   |
| Gray Pebble Vinyl Sheet Flooring and Glue                     | Staff Restroom  |
| Black Vapor Barrier   | Roof Hatch  |
| Roof Mastic   | Roof (Library)  |
| Sliver Paint  | Roof (Library, Front Entry, A146)   |
| 3-Tab Roofing   | Roof - Cafeteria  |
| Wall Panel Glue   | Lower Level Restroom  |
| Built-up Roofing  | Roof (A136, A130, A146)   |
| Built-up Roofing  | Roof (A148, A116, A156)   |
| Built-up Roofing  | Roof (A108, Office, A102)   |
| Built-up Roofing  | Roof (Library)  |
| Built-up Roofing  | Roof (Breeze Way Entry, Storage 6)  |
| Built-up Roofing  | Roof (Boiler)   |
| Built-up Roofing  | Roof (Breeze Way)   |
| Built-up Roofing  | Roof (Storage 9, Storage 9/10, Storage 10)                                |

Due to the Site being an occupied building at the time of the inspection and sampling, only limited destructive investigation for concealed materials was performed. Hidden building materials (e.g., old floor mastic patches hidden under carpeting, chalkboard mastic, mirror mastic, etc.), other than those discussed in this report, could be uncovered when removing building finishes during

demolition activities. Any materials encountered during the demolition activities that are not identified in this report, should either be presumed to be asbestos containing and handled as ACM or be sampled by an accredited asbestos inspector to determine if it contains asbestos.

## LEAD PAINT FINDINGS & RECOMMENDATIONS

The following table presents the suspect paints identified and sampled during this survey as well as all applicable analytical results:

| Sample Number | Paint Description                                   | Lead Concentration (wt%) | HUD/OSHA Category |
|---------------|---|--------------------------|-------------------|
| ACMA-Pb-01    | White Interior Paint: Hallway Wall (Plaster)        | <0.0093%                 | BRL               |
| ACMA-Pb-02    | Maroon Interior Paint: Interior Door Casing (Metal) | <0.20%                   | BRL               |
| ACMA-Pb-03    | White Exterior Paint: Wall (Concrete)               | 0.018%                   | LCP               |
| ACMA-Pb-04    | Black Exterior Paint: Door (Wood)                   | 0.054%                   | LCP               |
| ACMA-Pb-05    | White Exterior Paint: Boiler Room Vent (Metal)      | 0.39%                    | LCP               |
| ACMA-Pb-06    | Red Exterior Paint: Handrail (Metal)                | 0.42%                    | LCP               |
| ACMA-Pb-07    | Light Blue Interior Paint: Room A158 Door (Wood)    | 0.020%                   | LCP               |

HUD/OSHA Categories: LBP = Lead Based Paint LCP = Lead Containing Paint BRL = Below Reporting Limit

Five of the seven paint chip samples collected in conjunction with this survey contained lead in concentrations above the laboratory reporting limits.

Based on applicable federal and state regulations, all identified and/or assumed lead-paints must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove, handle and dispose of lead paints which will not typically generate a large amount of additional cost above and beyond the general demolition activities.

## PCB FINDINGS & RECOMMENDATIONS

Polychlorinated Biphenyls (PCBs) are commonly found in fluorescent light ballasts as well as caulking and glazing in construction. No sampling was conducted for PCBs during this investigation; however, these materials should be assumed to contain PCBs and treated as such during the demolition/renovation activities. Typically, all newer light ballasts may say “no-PCB” on the label and thus would not need to be disposed of as PCB containing waste.

Based on applicable federal and state regulations, all PCB-containing or assumed PCB-containing light ballast and other materials must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove and handle PCB-containing materials which will not typically generate a large amount of additional cost above and beyond the general demolition activities. However; disposal/recycling is typically completed by an outside contractor.

## **MERCURY FINDINGS & RECOMMENDATIONS**

Mercury is commonly found in fluorescent light tubes as well as in older wall mounted thermostats. No sampling was conducted for mercury during this investigation; however, these materials should be assumed to contain mercury and treated as such during the demolition/renovation activities. TRC did not observe any suspect mercury containing thermostats, as they all appear to be of newer vintage. However, it is possible for mercury containing thermostats to be located in the building. Based on applicable federal and state regulations, all mercury-containing or assumed mercury-containing fluorescent light tubes and thermostats must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove and handle mercury-containing materials which will not typically generate a large amount of additional cost above and beyond the general demolition activities. However; disposal/recycling is typically completed by an outside contractor.

## **RECOMMENDATIONS**

All identified asbestos containing materials from this investigation and previous investigations must be removed by a licensed asbestos abatement contractor prior to any renovation or demolition activities. Additionally, any materials uncovered during renovation or demolition activities that are not addressed in this inspection report or prior reports for the building are considered presumed asbestos containing materials and must be sampled by an accredited asbestos inspector prior to disturbance, or they must be treated as asbestos containing.

All identified and/or assumed lead-paints, assumed PCB-containing equipment or materials and assumed mercury-containing equipment or materials should be removed, handled and/or disposed of in accordance with all applicable federal, state and local regulations.

## **DISCLAIMER**

The content presented in this report is based on data collected during the site inspection and survey, review of pertinent regulations, requirements, guidelines and commonly followed industry standards, and information provided by the Beaverton School District, their clients, agents, and representatives.

The work has been conducted in an objective and unbiased manner and in accordance with generally accepted professional practice for this type of work. TRC believes the data and analysis to be accurate and relevant, but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information by other parties.

This survey report is designed to aid the property owner, architect, construction manager, general contractor, and abatement contractor in locating potential hazardous materials. This report is not intended for, and may not be utilized as, a bidding document or as an abatement project specification document.

If you have any questions, or need any further clarification regarding this report, please do not hesitate to contact Mr. Ron Landolt at (503) 407-0734.

Sincerely,  
**TRC Environmental Corporation**

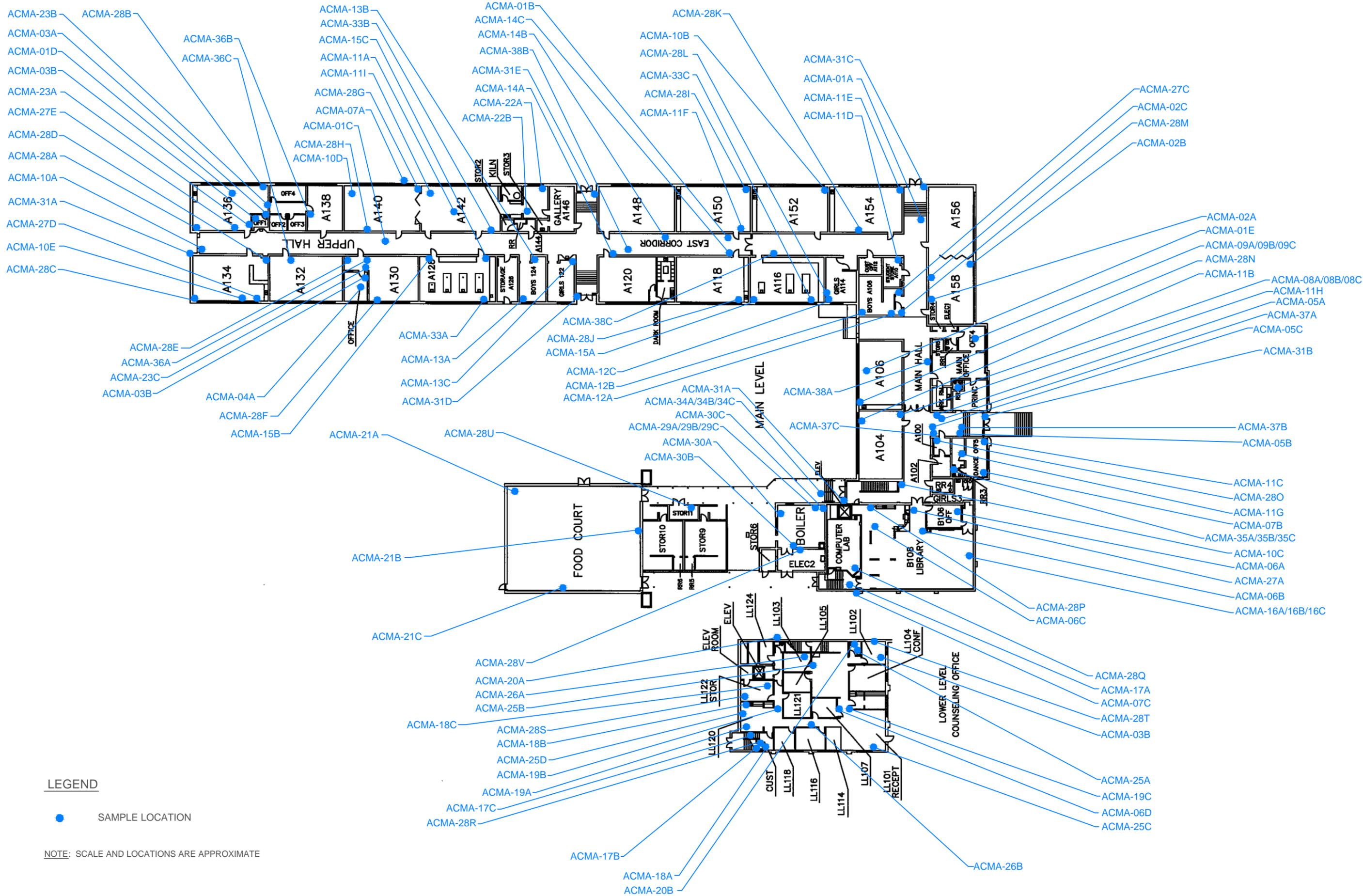


Jason Stone  
Project Manager



Ron Landolt, CAC  
NW Region BSI Practice Manager

## **Appendix A – Figure(s)**



**LEGEND**

● SAMPLE LOCATION

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

FIGURE NUMBER

1.1

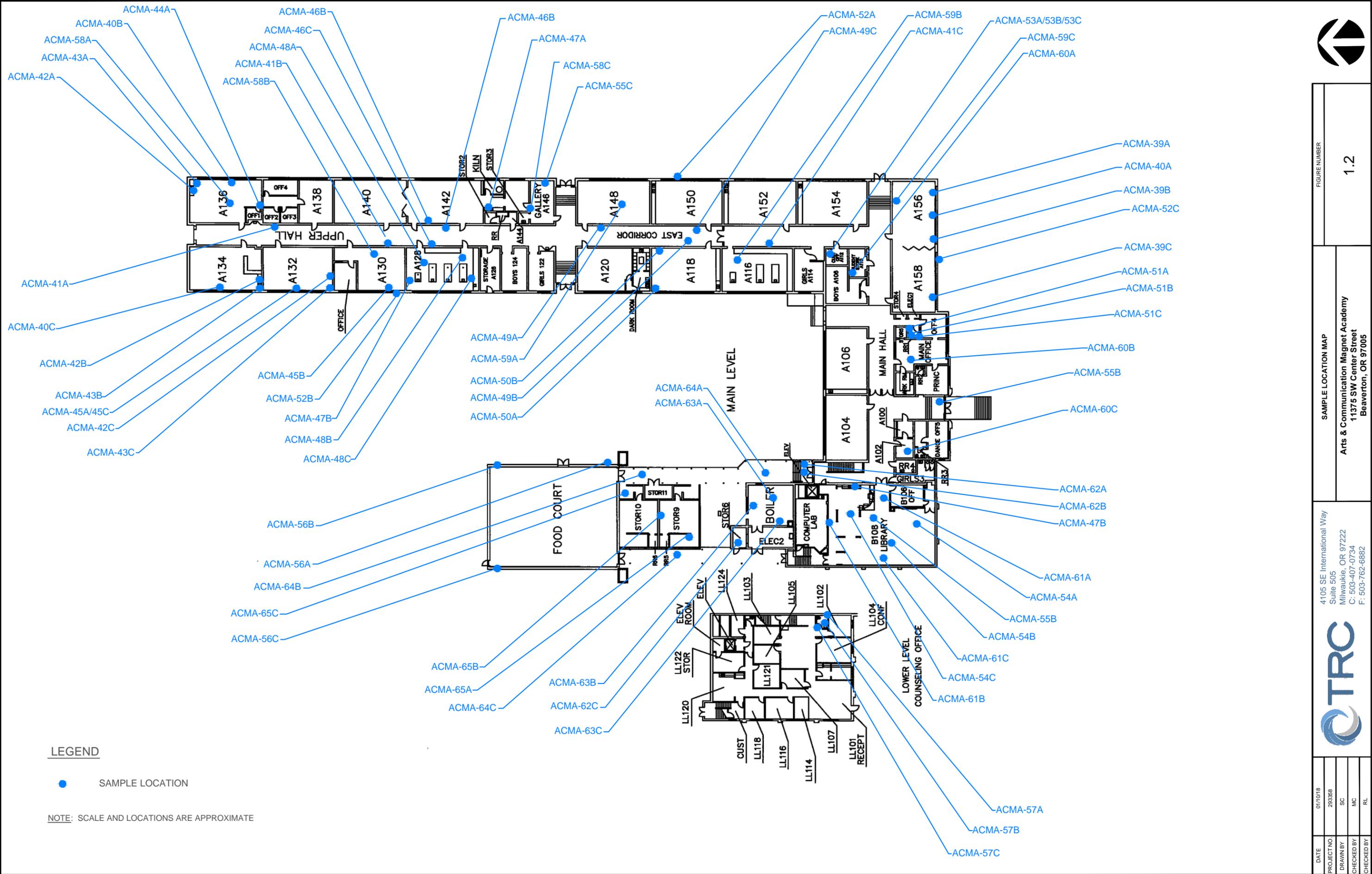
SAMPLE LOCATION MAP

Arts & Communication Magnet Academy  
11375 SW Center Street  
Beaverton, OR 97005

4105 SE International Way  
Suite 505  
Milwaukie, OR 97222  
C: 503-407-0734  
F: 503-762-6882



|             |          |
|-------------|----------|
| DATE        | 01/10/18 |
| PROJECT NO. | 283568   |
| DRAWN BY    | SC       |
| CHECKED BY  | MC       |
| CHECKED BY  | RL       |



**LEGEND**

● SAMPLE LOCATION

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE



FIGURE NUMBER

1.2

SAMPLE LOCATION MAP

Arts & Communication Magnet Academy  
11375 SW Center Street  
Beaverton, OR 97005

4105 SE International Way  
Suite 505  
Milwaukie, OR 97222  
C: 503-407-0734  
F: 503-762-6882



|             |          |
|-------------|----------|
| DATE        | 01/10/18 |
| PROJECT NO. | 283568   |
| DRAWN BY    | SC       |
| CHECKED BY  | MC       |
| CHECKED BY  | RL       |



**LEGEND**

- ASBESTOS-CONTAINING 9" x 9" FLOOR TILE AND BLACK MASTIC
- ASBESTOS-CONTAINING MASTIC AND NON-ASBESTOS-CONTAINING BLUE 12" x 12" FLOOR TILE
- ASBESTOS-CONTAINING FLOOR TILE AND MASTIC UNDER WOOD FLOORING
- ASBESTOS-CONTAINING BLACK SINK UNDERCOATING
- ASSUMED ASBESTOS-CONTAINING MIRROR MASTIC
- ASSUMED ASBESTOS-CONTAINING FIRE DOORS

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

FIGURE NUMBER

2.1

ASBESTOS-CONTAINING MATERIALS LOCATION MAP

Arts & Communication Magnet Academy  
11375 SW Center Street  
Beaverton, OR 97005

4105 SE International Way  
Suite 505  
Milwaukie, OR 97222  
C: 503-407-0734  
F: 503-762-6882



|             |          |
|-------------|----------|
| DATE        | 07/10/18 |
| PROJECT NO. | 283358   |
| DRAWN BY    | SC       |
| CHECKED BY  | MC       |
| CHECKED BY  | RL       |



FIGURE NUMBER

2.2

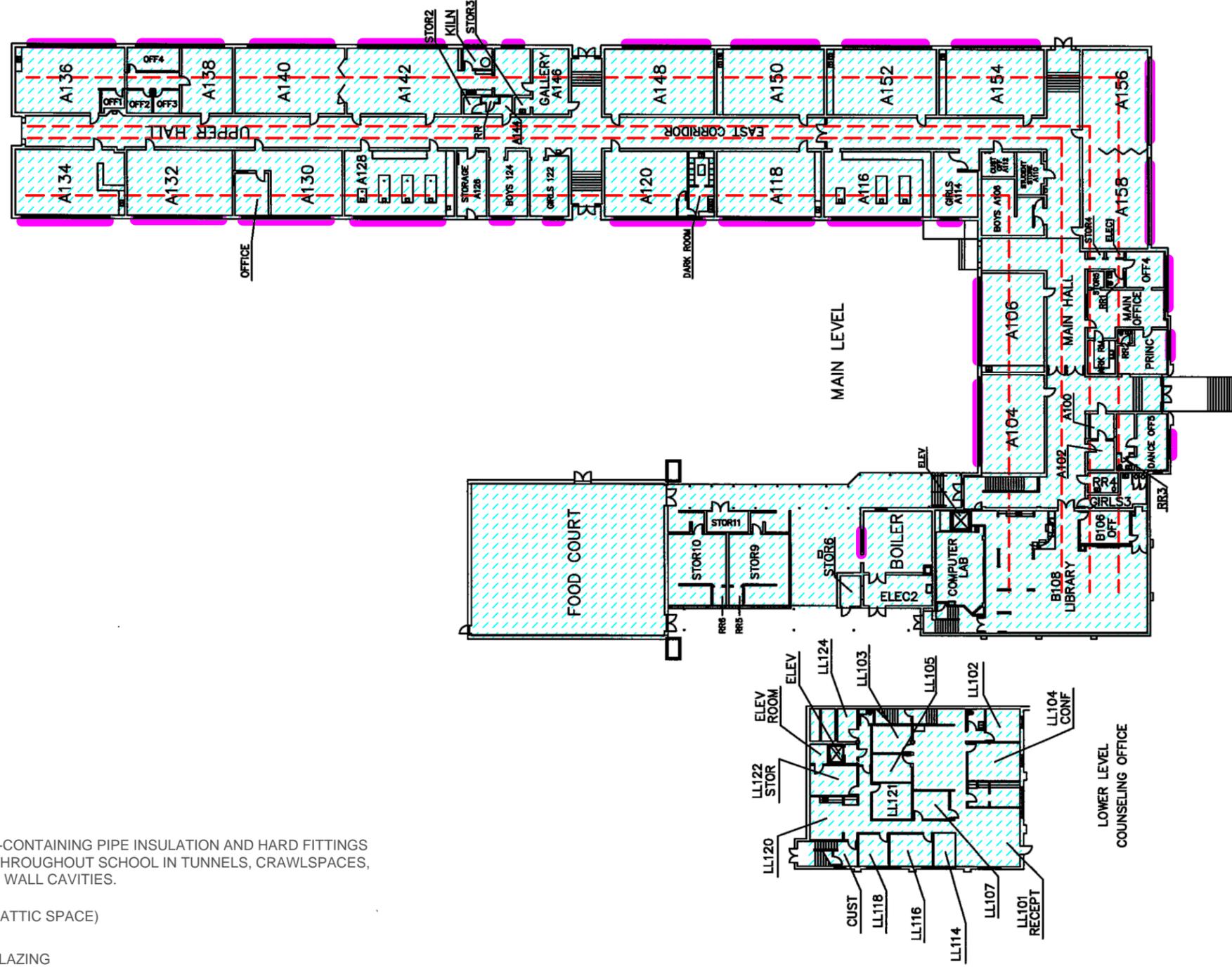
ASBESTOS-CONTAINING MATERIALS LOCATION MAP

Arts & Communication Magnet Academy  
11375 SW Center Street  
Beaverton, OR 97005

4105 SE International Way  
Suite 505  
Milwaukie, OR 97222  
C: 503-407-0734  
F: 503-762-6882



|             |          |
|-------------|----------|
| DATE        | 01/10/18 |
| PROJECT NO. | 283558   |
| DRAWN BY    | SC       |
| CHECKED BY  | MC       |
| CHECKED BY  | RL       |



LEGEND

-  ASBESTOS-CONTAINING PIPE INSULATION AND HARD FITTINGS LOCATED THROUGHOUT SCHOOL IN TUNNELS, CRAWLSPACES, ATTIC, AND WALL CAVITIES.
-  PIPE RUN (ATTIC SPACE)
-  WINDOW GLAZING

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

## **Appendix B – Laboratory Analytical Data Sheets**



**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: Beaverton School District

Lab Log #: 0051745  
 Project #: 293358.0000.0000  
 Date Received: 12/29/2017  
 Date Analyzed: 01/03/2018

Site: Arts & Communication Magnet Academy, Beaverton, OR

**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color                            | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials            | Asbestos % | Asbestos Type |
|------------|----------------------------------|------------|---------------|-----------|-----------------------------------|------------|---------------|
| ACMA-01A   | White/Light Brown (ceiling tile) | Yes        | No            | --        | 90% cellulose                     | ND         | None          |
| ACMA-01B   | White/Light Brown (ceiling tile) | Yes        | No            | --        | 90% cellulose                     | ND         | None          |
| ACMA-01C   | White/Light Brown (ceiling tile) | Yes        | No            | --        | 90% cellulose                     | ND         | None          |
| ACMA-01D   | White/Light Brown (ceiling tile) | Yes        | No            | --        | 90% cellulose                     | ND         | None          |
| ACMA-01E   | White/Light Brown (ceiling tile) | Yes        | No            | --        | 90% cellulose                     | ND         | None          |
| ACMA-02A   | White/Brown (ceiling tile)       | Yes        | No            | --        | 90% cellulose                     | ND         | None          |
| ACMA-02B   | White/Brown (ceiling tile)       | Yes        | No            | --        | 90% cellulose                     | ND         | None          |
| ACMA-02C   | White/Brown (ceiling tile)       | Yes        | No            | --        | 90% cellulose                     | ND         | None          |
| ACMA-03A   | White/Grey (ceiling tile)        | Yes        | No            | --        | 20% cellulose<br>60% mineral wool | ND         | None          |
| ACMA-03B   | White/Grey (ceiling tile)        | Yes        | No            | --        | 20% cellulose<br>60% mineral wool | ND         | None          |
| ACMA-04A   | White/Grey (ceiling tile)        | Yes        | No            | --        | 20% cellulose<br>60% mineral wool | ND         | None          |
| ACMA-04B   | White/Grey (ceiling tile)        | Yes        | No            | --        | 20% cellulose<br>60% mineral wool | ND         | None          |
| ACMA-05A   | Light Grey (ceiling tile)        | No         | Yes           | 1         | 60% cellulose<br>20% mineral wool | ND         | None          |
| ACMA-05A   | White (drywall)                  | No         | Yes           | 2         | 2% cellulose                      | ND         | None          |
| ACMA-05B   | Light Grey (ceiling tile)        | No         | Yes           | 1         | 60% cellulose<br>20% mineral wool | ND         | None          |
| ACMA-05B   | White (drywall)                  | No         | Yes           | 2         | 2% cellulose                      | ND         | None          |

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA-LAP,LLC #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000411  
 RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907  
 CO# AL-15020 PHIL# 461 PA#68-03387



**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color                     | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials              | Asbestos % | Asbestos Type |
|------------|---------------------------|------------|---------------|-----------|-------------------------------------|------------|---------------|
| ACMA-05C   | Light Grey (ceiling tile) | No         | Yes           | 1         | 60% cellulose<br>20% mineral wool   | ND         | None          |
| ACMA-05C   | White (drywall)           | No         | Yes           | 2         | 2% cellulose                        | ND         | None          |
| ACMA-05D   | Light Grey (ceiling tile) | No         | Yes           | 1         | 80% mineral wool                    | ND         | None          |
| ACMA-05D   | White (drywall)           | No         | Yes           | 2         | 2% cellulose                        | ND         | None          |
| ACMA-06A   | White/Grey (ceiling tile) | Yes        | No            | --        | 60% cellulose<br>20% mineral wool   | ND         | None          |
| ACMA-06B   | White/Grey (ceiling tile) | Yes        | No            | --        | 60% cellulose<br>20% mineral wool   | ND         | None          |
| ACMA-06C   | White/Grey (ceiling tile) | Yes        | No            | --        | 60% cellulose<br>20% mineral wool   | ND         | None          |
| ACMA-06D   | White/Grey (ceiling tile) | Yes        | No            | --        | 60% cellulose<br>20% mineral wool   | ND         | None          |
| ACMA-07A   | White (caulk)             | Yes        | No            | --        | ---                                 | ND         | None          |
| ACMA-07B   | White (caulk)             | Yes        | No            | --        | ---                                 | ND         | None          |
| ACMA-07C   | White (caulk)             | Yes        | No            | --        | ---                                 | ND         | None          |
| ACMA-08A   | Purple/Grey (sheet vinyl) | Yes        | No            | --        | 60% cellulose<br>2% synthetic fiber | ND         | None          |
| ACMA-08B   | Purple/Grey (sheet vinyl) | Yes        | No            | --        | 60% cellulose<br>2% synthetic fiber | ND         | None          |
| ACMA-08C   | Purple/Grey (sheet vinyl) | Yes        | No            | --        | 60% cellulose<br>2% synthetic fiber | ND         | None          |
| ACMA-09A   | Off White (compound)      | Yes        | No            | --        | ---                                 | ND         | None          |
| ACMA-09B   | Off White (compound)      | Yes        | No            | --        | ---                                 | ND         | None          |
| ACMA-09C   | Off White (compound)      | Yes        | No            | --        | ---                                 | ND         | None          |
| ACMA-10A   | Yellow (glue)             | No         | Yes           | 1         | ---                                 | ND         | None          |
| ACMA-10A   | Off White (tile)          | No         | Yes           | 2         | ---                                 | ND         | None          |

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0 AIHA-LAP,LLC #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000411  
 RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907  
 CO# AL-15020 PHIL# 461 PA#68-03387



**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color              | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|--------------------|------------|---------------|-----------|------------------------|------------|---------------|
| ACMA-10B   | Yellow (glue)      | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-10B   | Off White (tile)   | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-10C   | Yellow (glue)      | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-10C   | Off White (tile)   | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-11A   | Black (mastic)     | No         | Yes           | 1         | ---                    | 5%         | Chrysotile    |
| ACMA-11A   | Light Green (tile) | No         | Yes           | 2         | ---                    | 3%         | Chrysotile    |
| ACMA-11B   | Black (mastic)     | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-11B   | Beige (tile)       | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-11C   | Black (mastic)     | No         | Yes           | 1         | ---                    | 5%         | Chrysotile    |
| ACMA-11C   | Dark Green (tile)  | No         | Yes           | 2         | ---                    | 5%         | Chrysotile    |
| ACMA-11D   | Black (mastic)     | No         | Yes           | 1         | ---                    | 5%         | Chrysotile    |
| ACMA-11D   | Grey (tile)        | No         | Yes           | 2         | ---                    | 5%         | Chrysotile    |
| ACMA-11E   | --                 | --         | --            | --        | --                     | SNA        | --            |
| ACMA-11E   | Orange (tile)      | No         | Yes           | 2         | ---                    | 5%         | Chrysotile    |
| ACMA-11F   | Black (mastic)     | No         | Yes           | 1         | ---                    | 3%         | Chrysotile    |
| ACMA-11F   | Light Grey (tile)  | No         | Yes           | 2         | ---                    | 10%        | Chrysotile    |
| ACMA-11G   | --                 | --         | --            | --        | --                     | SNA        | --            |
| ACMA-11G   | Off White (tile)   | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-11H   | Black (mastic)     | No         | Yes           | 1         | ---                    | 3%         | Chrysotile    |
| ACMA-11H   | Red (tile)         | No         | Yes           | 2         | ---                    | 5%         | Chrysotile    |
| ACMA-11I   | Black (mastic)     | No         | Yes           | 1         | ---                    | 3%         | Chrysotile    |
| ACMA-11I   | Brown (tile)       | No         | Yes           | 2         | ---                    | 5%         | Chrysotile    |
| ACMA-12A   | Grey (grout)       | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-12B   | Grey (grout)       | Yes        | No            | --        | ---                    | ND         | None          |

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0    AIHA-LAP,LLC #100122    CT #PH-0426    ME LA-0075, LB-0071    MA #AA000052    NY #10980    WV# LT000411  
 RI #AAL-007    TX #300354    VT #AL014538 LA#05011    VA #3333 000283    AZ #A20944    HI #L-09-004    NJ #CT004    CA #2907  
 CO# AL-15020    PHIL# 461    PA#68-03387



**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color                      | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|----------------------------|------------|---------------|-----------|------------------------|------------|---------------|
| ACMA-12C   | Grey (grout)               | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-13A   | Light Grey (grout)         | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-13B   | Light Grey (grout)         | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-13C   | Light Grey (grout)         | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-14A   | Dark Grey (glue)           | No         | Yes           | 1         | 10% cellulose          | ND         | None          |
| ACMA-14A   | Brown/Grey (tile)          | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-14B   | Dark Grey (glue)           | No         | Yes           | 1         | 10% cellulose          | ND         | None          |
| ACMA-14B   | Brown/Grey (tile)          | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-14C   | Dark Grey (glue)           | No         | Yes           | 1         | 10% cellulose          | ND         | None          |
| ACMA-14C   | Brown/Grey (tile)          | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-15A   | Yellow (glue)              | No         | Yes           | 1         | 3% cellulose           | ND         | None          |
| ACMA-15A   | Grey (tile)                | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-15B   | Black (glue)               | No         | Yes           | 1         | 3% cellulose           | ND         | None          |
| ACMA-15B   | Grey (tile)                | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-15C   | Yellow (glue)              | No         | Yes           | 1         | 3% cellulose           | ND         | None          |
| ACMA-15C   | Grey (tile)                | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-16A   | Black/ Brown (fiber panel) | Yes        | No            | --        | 80% fibrous glass      | ND         | None          |
| ACMA-16B   | Black/ Brown (fiber panel) | Yes        | No            | --        | 80% fibrous glass      | ND         | None          |
| ACMA-16C   | Black/ Brown (fiber panel) | Yes        | No            | --        | 80% fibrous glass      | ND         | None          |
| ACMA-17A   | White (mastic)             | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-17A   | Brown (pirell tile)        | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-17B   | White (mastic)             | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-17B   | Brown (pirell tile)        | No         | Yes           | 2         | ---                    | ND         | None          |

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0 AIHA-LAP,LLC #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000411  
 RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907  
 CO# AL-15020 PHIL# 461 PA#68-03387



**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color                   | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|-------------------------|------------|---------------|-----------|------------------------|------------|---------------|
| ACMA-17C   | White (mastic)          | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-17C   | Brown (stair tread)     | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-18A   | Tan (mastic)            | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-18A   | Brown (tile)            | No         | Yes           | 2         | 3% cellulose           | ND         | None          |
| ACMA-18A   | Grey (tile)             | No         | Yes           | 3         | 3% cellulose           | ND         | None          |
| ACMA-18B   | Tan (mastic)            | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-18B   | Brown (tile)            | No         | Yes           | 2         | 3% cellulose           | ND         | None          |
| ACMA-18B   | Grey (tile)             | No         | Yes           | 3         | 3% cellulose           | ND         | None          |
| ACMA-18C   | Tan (mastic)            | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-18C   | Brown (tile)            | No         | Yes           | 2         | 3% cellulose           | ND         | None          |
| ACMA-18C   | Grey (tile)             | No         | Yes           | 3         | 3% cellulose           | ND         | None          |
| ACMA-19A   | Tan (mastic)            | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-19A   | Tan (tile)              | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-19A   | Grey (tile)             | No         | Yes           | 3         | ---                    | ND         | None          |
| ACMA-19B   | Tan (mastic)            | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-19B   | Tan (tile)              | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-19B   | Grey (tile)             | No         | Yes           | 3         | ---                    | ND         | None          |
| ACMA-19C   | Tan (mastic)            | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-19C   | Tan (tile)              | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-19C   | Grey (tile)             | No         | Yes           | 3         | ---                    | ND         | None          |
| ACMA-20A   | Gold/Grey (sheet vinyl) | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-20B   | Gold/Grey (sheet vinyl) | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-21A   | Yellow (mastic)         | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-21A   | Blue (tile)             | No         | Yes           | 2         | ---                    | ND         | None          |

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0    AIHA-LAP,LLC #100122    CT #PH-0426    ME LA-0075, LB-0071    MA #AA000052    NY #10980    WV# LT000411  
 RI #AAL-007    TX #300354    VT #AL014538 LA#05011    VA #3333 000283    AZ #A20944    HI #L-09-004    NJ #CT004    CA #2907  
 CO# AL-15020    PHIL# 461    PA#68-03387



**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color                  | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|------------------------|------------|---------------|-----------|------------------------|------------|---------------|
| ACMA-21B   | --                     | --         | --            | --        | --                     | SNA        | --            |
| ACMA-21B   | Blue (tile)            | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-21C   | Black (mastic)         | No         | Yes           | 1         | ---                    | 3%         | Chrysotile    |
| ACMA-21C   | Blue (tile)            | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-22A   | --                     | --         | --            | --        | --                     | SNA        | --            |
| ACMA-22A   | Beige (tile)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-22B   | --                     | --         | --            | --        | --                     | SNA        | --            |
| ACMA-22B   | Beige (tile)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-23A   | Yellow (carpet mastic) | No         | Yes           | 1         | 5% cellulose           | ND         | None          |
| ACMA-23A   | White (tile)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-23A   | Black (mastic)         | No         | Yes           | 3         | 3% cellulose           | ND         | None          |
| ACMA-23B   | Yellow (carpet mastic) | No         | Yes           | 1         | 5% cellulose           | ND         | None          |
| ACMA-23B   | White (tile)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-23B   | Black (mastic)         | No         | Yes           | 3         | 3% cellulose           | ND         | None          |
| ACMA-23C   | Yellow (carpet mastic) | No         | Yes           | 1         | 5% cellulose           | ND         | None          |
| ACMA-23C   | White (tile)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-23C   | Black (mastic)         | No         | Yes           | 3         | 3% cellulose           | ND         | None          |
| ACMA-10D   | Yellow (mastic)        | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-10D   | Off White (tile)       | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-10E   | Yellow (mastic)        | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-10E   | Off White (tile)       | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-24A   | Yellow (mastic)        | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-24A   | Grey-Pink (tile)       | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-24A   | Black (mastic)         | No         | Yes           | 3         | ---                    | ND         | None          |
| ACMA-24A   | Light Grey (tile)      | No         | Yes           | 4         | ---                    | ND         | None          |

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0    AIHA-LAP,LLC #100122    CT #PH-0426    ME LA-0075, LB-0071    MA #AA000052    NY #10980    WV# LT000411  
 RI #AAL-007    TX #300354    VT #AL014538 LA#05011    VA #3333 000283    AZ #A20944    HI #L-09-004    NJ #CT004    CA #2907  
 CO# AL-15020    PHIL# 461    PA#68-03387



**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color                   | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|-------------------------|------------|---------------|-----------|------------------------|------------|---------------|
| ACMA-24B   | Yellow (mastic)         | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-24B   | Grey-Pink (tile)        | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-24B   | Black (mastic)          | No         | Yes           | 3         | ---                    | ND         | None          |
| ACMA-24B   | Light Grey (tile)       | No         | Yes           | 4         | ---                    | ND         | None          |
| ACMA-25A   | White (mastic)          | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-25A   | Light Brown (cove base) | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-25B   | White (mastic)          | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-25B   | Light Brown (cove base) | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-25C   | White (mastic)          | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-25C   | Light Brown (cove base) | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-25D   | White (mastic)          | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-25D   | Light Brown (cove base) | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-26A   | Yellow (mastic)         | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-26A   | Light Grey (tile)       | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-26B   | Yellow (mastic)         | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-26B   | Light Grey (tile)       | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-27A   | Cream (mastic)          | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-27A   | Black (cove base)       | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-27B   | Cream (mastic)          | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-27B   | Black (cove base)       | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-27C   | Cream (mastic)          | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-27C   | Black (cove base)       | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-27D   | Cream (mastic)          | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-27D   | Black (cove base)       | No         | Yes           | 2         | ---                    | ND         | None          |

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0    AIHA-LAP,LLC #100122    CT #PH-0426    ME LA-0075, LB-0071    MA #AA000052    NY #10980    WV# LT000411  
 RI #AAL-007    TX #300354    VT #AL014538 LA#05011    VA #3333 000283    AZ #A20944    HI #L-09-004    NJ #CT004    CA #2907  
 CO# AL-15020    PHIL# 461    PA#68-03387



**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color                          | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|--------------------------------|------------|---------------|-----------|------------------------|------------|---------------|
| ACMA-27E   | Cream (mastic)                 | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-27E   | Black (cove base)              | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-28A   | White (texture/joint compound) | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-28B   | White (texture/plaster)        | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-28C   | White (texture/plaster)        | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-28D   | White (texture/plaster)        | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-28E   | White (texture/joint compound) | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-28E   | White (gypsum board)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-28F   | White (texture/joint compound) | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-28F   | White (gypsum board)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-28G   | White (texture/plaster)        | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-28H   | White (texture/skim coat)      | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-28H   | Light Grey (plaster)           | No         | Yes           | 2         | 2% horse hair          | ND         | None          |
| ACMA-28I   | White (texture/skim coat)      | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-28I   | Light Grey (plaster)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-28J   | White (texture/skim coat)      | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-28J   | Light Grey (plaster)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-28K   | White (texture/skim coat)      | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-28K   | Light Grey (plaster)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-28L   | White (texture/skim coat)      | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-28L   | Light Grey (plaster)           | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-28M   | White (texture/skim coat)      | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-28M   | Light Grey (plaster)           | No         | Yes           | 2         | ---                    | ND         | None          |

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0    AIHA-LAP,LLC #100122    CT #PH-0426    ME LA-0075, LB-0071    MA #AA000052    NY #10980    WV# LT000411  
 RI #AAL-007    TX #300354    VT #AL014538 LA#05011    VA #3333 000283    AZ #A20944    HI #L-09-004    NJ #CT004    CA #2907  
 CO# AL-15020    PHIL# 461    PA#68-03387



**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color                     | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type         |
|------------|---------------------------|------------|---------------|-----------|------------------------|------------|-----------------------|
| ACMA-28N   | White (texture/skim coat) | No         | Yes           | 1         | ---                    | ND         | None                  |
| ACMA-28N   | Light Grey (plaster)      | No         | Yes           | 2         | ---                    | ND         | None                  |
| ACMA-28O   | White (texture/skim coat) | Yes        | No            | --        | ---                    | ND         | None                  |
| ACMA-28P   | White (joint compound)    | No         | Yes           | 1         | ---                    | ND         | None                  |
| ACMA-28P   | Light Grey (gypsum board) | No         | Yes           | 2         | ---                    | ND         | None                  |
| ACMA-28Q   | White (joint compound)    | No         | Yes           | 1         | ---                    | ND         | None                  |
| ACMA-28Q   | Light Grey (gypsum board) | No         | Yes           | 2         | ---                    | ND         | None                  |
| ACMA-28R   | White (joint compound)    | No         | Yes           | 1         | ---                    | ND         | None                  |
| ACMA-28R   | Light Grey (gypsum board) | No         | Yes           | 2         | ---                    | ND         | None                  |
| ACMA-28S   | White (joint compound)    | No         | Yes           | 1         | ---                    | ND         | None                  |
| ACMA-28S   | Light Grey (gypsum board) | No         | Yes           | 2         | ---                    | ND         | None                  |
| ACMA-28T   | White (joint compound)    | Yes        | No            | --        | ---                    | ND         | None                  |
| ACMA-28U   | White (joint compound)    | No         | Yes           | 1         | ---                    | ND         | None                  |
| ACMA-28U   | White (gypsum board)      | No         | Yes           | 2         | ---                    | ND         | None                  |
| ACMA-29A   | Brown (aircell)           | Yes        | No            | --        | 99% cellulose          | ND         | None                  |
| ACMA-29B   | White (mag)               | Yes        | No            | --        | ---                    | 20%<br>20% | Chrysotile<br>Amosite |
| ACMA-29C   | --                        | --         | --            | --        | --                     | NA/PS      | --                    |
| ACMA-30A   | Grey (concrete)           | Yes        | No            | --        | ---                    | ND         | None                  |
| ACMA-30B   | Grey (concrete)           | Yes        | No            | --        | ---                    | ND         | None                  |
| ACMA-30C   | Grey (concrete)           | Yes        | No            | --        | ---                    | ND         | None                  |
| ACMA-28V   | White (skim coat)         | No         | Yes           | 1         | ---                    | ND         | None                  |
| ACMA-28V   | Grey (plaster)            | No         | Yes           | 2         | ---                    | ND         | None                  |
| ACMA-31A   | White/Red/Grey (stucco)   | Yes        | No            | --        | ---                    | ND         | None                  |
| ACMA-31B   | White/Red/Grey (stucco)   | Yes        | No            | --        | ---                    | ND         | None                  |

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0    AIHA-LAP,LLC #100122    CT #PH-0426    ME LA-0075, LB-0071    MA #AA000052    NY #10980    WV# LT000411  
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 CO# AL-15020    PHIL# 461    PA#68-03387

**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

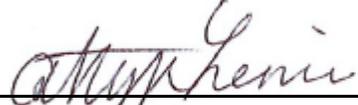
| Sample No. | Color                   | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|-------------------------|------------|---------------|-----------|------------------------|------------|---------------|
| ACMA-31C   | White/Red/Grey (stucco) | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-31D   | White/Red/Grey (stucco) | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-31E   | White/Red/Grey (stucco) | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-31F   | White/Red/Grey (stucco) | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-32A   | Black (work top)        | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-32B   | Black (work top)        | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-32C   | Black (work top)        | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-33A   | Black (sink insulation) | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-33B   | Black (sink insulation) | Yes        | No            | --        | ---                    | ND         | None          |
| ACMA-33C   | Black (sink insulation) | Yes        | No            | --        | ---                    | 3%         | Chrysotile    |

Reporting limit- asbestos present at 1%  
 ND - asbestos was not detected  
 Trace - asbestos was observed at level of less than 1%  
 NA/PS - Not Analyzed / Positive Stop  
 SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2018. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2018. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by:  Reviewed by:  Date Issued: 01/05/2018  
 Cathryn Lemire, Laboratory Analyst Kathleen Williamson, Laboratory Manager

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0 AIHA-LAP,LLC #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000411  
 RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907  
 CO# AL-15020 PHIL# 461 PA#68-03387





ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 293358

Name: BSD Bond Renovation Work

Location: Arts & Communication Magnet Academy (ACMA)

Inspector Name and License #: EDH

Date of Inspection: 12-21-17

Inspector Signature: [Signature]

| Sample #            | Material Description               | Sample Location                                       | Quantity (SF or LF) | Friability (NF or F) | Damage (ND, D, SD) |
|---------------------|------------------------------------|---|---------------------|----------------------|--------------------|
| ACMA-01A            | 1'x1' SLOTTED CT                   | EAST ENTRY  |                     |                      |                    |
| 01B                 | on living steps                    | <del>UPPER</del> HALL EAST CORRIDOR                   | check white glue?   |                      |                    |
| 01C                 |                                    | UPPER HALL  | "                   | "                    |                    |
| 01D                 |                                    | Room A136   |                     |                      |                    |
| 01E                 |                                    | Room A106   |                     |                      |                    |
| ACMA-02A            | 1x1 Pinhole                        | Rm 158  |                     |                      |                    |
| 02B                 | "                                  | "   | on steps            |                      |                    |
| 02C                 |                                    |   |                     |                      |                    |
| ACMA-03A            | 2" <del>wide</del> FISSURE GRID CT | OFFICE IN Rm 136                                      |                     |                      |                    |
| 03B                 | 2x2                                | <del>ENTRANCE</del> Rm 136                            |                     |                      |                    |
| ACMA-04A            | 2x4 small pressure grid CT         | OFFICE Rm 130   |                     |                      |                    |
| 04B                 |                                    | " " 130   |                     |                      |                    |
| ACMA-05A            | 1'x1' CT FISSURED                  | MAIN ENTRY - South                                    |                     |                      |                    |
| 05B                 | Removal Mastic                     | Look for the mastic in the whole sample               |                     |                      |                    |
| 05C                 |                                    |   |                     |                      |                    |
| <del>ACMA-06A</del> | <del>1x1 CT FISSURED</del>         | <del>Computer Room - LibRARY</del>                    |                     |                      |                    |
| 05D                 | 1x1 CT FISSURED                    | COMPUTER ROOM - LibRARY - Very high - look for mastic |                     |                      |                    |
| ACMA-06A            | new 2x4' joisted                   | LibRARY OFFICE  |                     |                      |                    |
| 06B                 |                                    | " STATION   |                     |                      |                    |
| 06C                 |                                    | " hall  |                     |                      |                    |
| 06D                 |                                    | DOWNSTAIRS  |                     |                      |                    |

Read by: [Signature] 12/29/17 1100  
4105 SE International Way, Suite 505, Milwaukie, OR 97222 Phone: (503) 387-3251 Fax: (503) 908-1318



ASBESTOS INSPECTION FIELD DATA SHEET

51745

Project #: 293358  
 Name: BSD Bond Renovation Work  
 Location: Arts & Communication Magnet Academy (ACMA)

Inspector Name and License #: Edgar Tom Stone  
 Date of Inspection: 12-22-17  
 Inspector Signature: [Signature]

Page 2 of 3

| Sample # | Material Description                         | Sample Location                 | Quantity (SF or LF) | Friability (NF or F) | Damage (ND, D, SD) |
|----------|--|---------------------------------|---------------------|----------------------|--------------------|
| ACMA-07A | EXT. WINDOW CASING                           | NORTH EAST EXTERIOR             |                     |                      |                    |
| 07B      |  | CENTER SOUTH "                  |                     |                      |                    |
| 07C      |  | SOUTH WEST "                    |                     |                      |                    |
| -08A     | Purple (pebble pattern) Sheet Vinyl Flooring | Principal's Restroom            |                     |                      |                    |
| -08B     |  |                                 |                     |                      |                    |
| +08C     |  |                                 |                     |                      |                    |
| -09A     | Off-white compound                           | Office                          |                     |                      |                    |
| -09B     | beneath carpet                               |                                 |                     |                      |                    |
| -09C     |  |                                 |                     |                      |                    |
| -10A     | Off-White 12"x12" Floor Tile & Glue          | N. end (Upper Hall)             |                     |                      |                    |
| -10B     |  | Rm. #152                        |                     |                      |                    |
| -10C     |  | W. end (Main Hall)              |                     |                      |                    |
| -11A     |  | Light Green (A142)              |                     |                      |                    |
| -11B     | 9"x9" Floor Tile & Mastic                    | Beige (A104)                    |                     |                      |                    |
| -11C     |  | Dark Green (Break Room)         |                     |                      |                    |
| -11D     |  | Gray (Student Store)            |                     |                      |                    |
| -11E     |  | Orange (A154)                   |                     |                      |                    |
| -11F     |  | Light Gray (A150)               |                     |                      |                    |
| * -11G   |  | Off-white (Break Room)          |                     |                      |                    |
| * -11H   |  | Red (A104)                      |                     |                      |                    |
| -11I     |  | Brown (A142)                    |                     |                      |                    |
| -12A     | Red Ceramic Tile Grout/Glue                  | Boys' Restroom (Main Hall)      |                     |                      |                    |
| -12B     |  | Girls' Restroom (East Corridor) |                     |                      |                    |
| -12C     |  | Boys' Restroom (Upper Hall)     |                     |                      |                    |
| -13A     | White & Gray Ceramic Tile                    | Girls' Restroom                 |                     |                      |                    |
| -13B     | Grout/Glue                                   |                                 |                     |                      |                    |
| -13C     |  |                                 |                     |                      |                    |

\* No mastic  
 Red line: 12/29/17 1100



ASBESTOS INSPECTION FIELD DATA SHEET

51745

Project #: 293358 Inspector Name and License #: \_\_\_\_\_  
 Name: BSD Bond Renovation Work Date of Inspection: 12-26-17  
 Location: Arts & Communication Magnet Academy (ACMA) Inspector Signature: *[Signature]*

Page 3 of 6

| Sample # | Material Description                            | Sample Location                     | Quantity (SF or LF) | Friability (NF or F) | Damage (ND, D, SD) |
|----------|---|-------------------------------------|---------------------|----------------------|--------------------|
| ACMA-14A | Brown & Gray 12"x12" Textured Floor Tile & Glue | East Corridor (Between A150 & A148) |                     |                      |                    |
| -14B     | Gray 12"x12" Floor Tile & Glue                  | ALL A128                            |                     |                      |                    |
| -14C     | Gray 12"x12" Floor Tile & Glue                  | LibRARY (AHEAD 12-26)               |                     |                      |                    |
| -15A     | Beige Brown 12"x12 FT (2 layers) MASTIC         | STAIRS FROM LIBRARY TO COUNSELING   |                     |                      |                    |
| -15B     | Beige Brown 12"x12 FT MASTIC                    | Counseling                          |                     |                      |                    |
| -15C     | Beige Brown 12"x12 FT MASTIC                    | Counseling - Junction               |                     |                      |                    |
| 16A      | Dark Gray 12"x12 FT MASTIC                      | HALL BY REST RM                     | " "                 | " "                  |                    |
| 17A      | Dark Gray 12"x12 FT MASTIC                      | HALL BY REST RM                     | " "                 | " "                  |                    |
| 18A      | Dark Gray 12"x12 FT MASTIC                      | HALL BY REST RM                     | " "                 | " "                  |                    |
| 19A      | Dark Gray 12"x12 FT MASTIC                      | HALL BY REST RM                     | " "                 | " "                  |                    |
| 20A      | Dark Gray 12"x12 FT MASTIC                      | HALL BY REST RM                     | " "                 | " "                  |                    |
| 21A      | Dark Gray 12"x12 FT MASTIC                      | HALL BY REST RM                     | " "                 | " "                  |                    |
| 22A      | Dark Gray 12"x12 FT MASTIC                      | HALL BY REST RM                     | " "                 | " "                  |                    |
| 23A      | Dark Gray 12"x12 FT MASTIC                      | HALL BY REST RM                     | " "                 | " "                  |                    |

Red line: *[Handwritten notes]*  
 \*NO MASTIC  
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ASBESTOS INSPECTION FIELD DATA SHEET

51745

Project #: 293358  
Name: BSD Bond Renovation Work  
Location: Arts & Communication Magnet Academy (ACMA)

Inspector Name and License #: \_\_\_\_\_  
Date of Inspection: 12-26-17  
Inspector Signature: \_\_\_\_\_

Page 3 of 6

| Sample #            | Material Description                   | Sample Location                                  | Quantity (SF or LF) | Friability (NF or F) | Damage (ND, D, SD) |
|---------------------|--|--|---------------------|----------------------|--------------------|
| <del>ACMA 77A</del> | <del>Brown Gray 12"x12" Terrazzo</del> | <del>East Corridor (between 410 &amp; 418)</del> |                     |                      |                    |
| 174B                | Gray 12"x12" Terrazzo                  | ↓  |                     |                      |                    |
| 154                 | Gray 12"x12" Floor Tile & Glue         | ADB  |                     |                      |                    |
| 155                 | Gray 12"x12" Floor Tile & Glue         | ADB  |                     |                      |                    |
| 156                 | Gray 12"x12" Floor Tile & Glue         | ADB  |                     |                      |                    |
| 16A                 | Fiber Panels Block                     | Library  |                     |                      |                    |
| 17A                 | Brown 18"x18" P. Roll:                 | Stairs From Library                              |                     |                      |                    |
| B                   | 9" Stair Tread                         | To Counseling                                    |                     |                      |                    |
| C                   | Beige Brown 12"x12" FT                 | Counseling                                       |                     |                      |                    |
| 18A                 | Beige Brown 12"x12" FT                 | Counseling                                       |                     |                      |                    |
| 19A                 | Dark BRN 12"x12" FT                    | Counseling - Junction                            |                     |                      |                    |
| 19B                 | Dark BRN 12"x12" FT                    | HALL BY REST RM                                  |                     |                      |                    |
| 19C                 | Dark BRN 12"x12" FT                    | HALL BY REST RM                                  |                     |                      |                    |
| 20A                 | SV Gold/gray swirl                     | Small Rest                                       |                     |                      |                    |
| 20B                 | Small m s                              | Small Rest                                       |                     |                      |                    |
| 21A                 | Food Court                             | 12x12 Blue FT                                    |                     |                      |                    |
| 21B                 | 12x12 Blue FT                          | Food Court                                       |                     |                      |                    |
| 22A                 | 12x12 Blue FT                          | Recessed Gallery                                 |                     |                      |                    |
| 22B                 | 12x12 Blue FT                          | Small Room                                       |                     |                      |                    |

Red by: W. W. W. 12/29/17 1100  
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ASBESTOS INSPECTION FIELD DATA SHEET

57445

Project #: 293358  
 Name: BSD Bond Renovation Work  
 Location: Arts & Communication Magnet Academy (ACMA)  
 Inspector Name and License #: \_\_\_\_\_  
 Date of Inspection: 12-26-17  
 Inspector Signature: *[Signature]*

Page 4 of 6

| Sample #                     | Material Description   | Sample Location                                 | Quantity (SF or LF) | Friability (NF or F) | Damage (ND, D, SD) |
|------------------------------|--|---|---------------------|----------------------|--------------------|
| <del>234</del><br>233A       | Carpet mastic<br>Tile under  | Rm 136  |                     |                      |                    |
| 233B                         | Carpet mastic  | Rm 130  |                     |                      |                    |
| ACMA-10D<br>10E              | 12x12 of w/ FT mastic  | Rm 140<br>Rm 134                                |                     |                      |                    |
| ACMA-29A<br>B                | 12x12 cream color<br>2 layers Mastic                                     | Rm L4102<br>small room                          |                     |                      |                    |
| 25A<br>B<br>C                | 4" lath from site base<br>Mastic   | Rm L4102<br>near Rm L4103                       |                     |                      |                    |
| 26A<br>B                     | Tile under carpet<br>BY L4116 Mastic                                     | lower level (overlaping<br>near Rm L4103)       |                     |                      |                    |
| 27A<br>B<br>C                | car base 4" Black<br>Mastic  | Library<br>BY 102<br>BY STUDENT STORE           |                     |                      |                    |
| 28A<br>B<br>C<br>D<br>E<br>F | Walls gypsum<br>plaster<br>plaster<br>gypsum board<br>plaster<br>plaster | Rm 136<br>" "<br>Rm 134<br>" "<br>Rm 130<br>" " |                     |                      |                    |
| 25D                          | 4" lath from site base<br>Mastic   | lower level by <del>room</del>                  |                     |                      |                    |

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*Red bar:*  
 12/26/17  
 1000

ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 293358  
 Name: BSD Bond Renovation Work  
 Location: Arts & Communication Magnet Academy (ACMA)

Inspector Name and License #: ED GAH  
 Date of Inspection: 12-27-17  
 Inspector Signature: [Signature]

| Sample # | Material Description | Sample Location                       | Quantity (SF or LF) | Friability (NF or F) | Damage (ND, D, SD) |
|----------|----------------------|---------------------------------------|---------------------|----------------------|--------------------|
| ACMA-285 | Plaster              | Rm 140                                | (End 12-26)         |                      |                    |
|          |                      | Rm 140                                |                     |                      |                    |
|          |                      | Rm 150                                |                     |                      |                    |
|          |                      | Rm 118                                |                     |                      |                    |
|          |                      | Rm 154                                |                     |                      |                    |
|          |                      | GIRLS Rm                              |                     |                      |                    |
|          |                      | Boys Rm                               |                     |                      |                    |
|          |                      | Rm 106                                |                     |                      |                    |
|          |                      | Rm 100                                |                     |                      |                    |
|          |                      | Li-Rm - mostly paved - plaster under? |                     |                      |                    |
|          |                      | Computer Lab                          |                     |                      |                    |
|          |                      | Locker Level - Custodian              |                     |                      |                    |
|          |                      | " " Rm 122                            |                     |                      |                    |
|          |                      | " " Rm 102                            |                     |                      |                    |
|          |                      | STORAGE BY FOOD COURT                 |                     |                      |                    |
|          |                      | Boiler Rm Turnell                     |                     |                      |                    |
|          |                      | " " "                                 |                     |                      |                    |
|          |                      | " " "                                 |                     |                      |                    |
|          |                      | Boiler Rm                             |                     |                      |                    |
|          |                      | " " "                                 |                     |                      |                    |
|          |                      | " " "                                 |                     |                      |                    |
|          |                      | Boiler Rm                             |                     |                      |                    |
| ACMA 28V | Plaster - Partition  | Boiler Rm                             |                     |                      |                    |
|          |                      |                                       |                     |                      |                    |
|          |                      |                                       |                     |                      |                    |
|          |                      |                                       |                     |                      |                    |
| 31A      | EXT STAIRS           | NORTH ENTRY BUILDING                  |                     |                      |                    |
| 31B      |                      | SOUTH MAIN ENTRY                      |                     |                      |                    |
| C        |                      | EAST ENTRY - SOUTH END                |                     |                      |                    |

Red box: [Signature] 12/27/17 1100  
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ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 293358  
Name: BSD Bond Renovation Work  
Location: Arts & Communication Magnet Academy (ACMA)  
Inspector Name and License #: ED SAH  
Date of Inspection: 12-27-17  
Inspector Signature: [Signature]

| Sample # | Material Description | Sample Location                            | Quantity (SF or LF) | Friability (NF or F) | Damage (ND, D, SD) |
|----------|----------------------|--|---------------------|----------------------|--------------------|
| ACMA 285 | Plaster              | Rm 100                                     | 100                 |                      |                    |
| I        | Plaster              | Rm 150                                     | 150                 |                      |                    |
| J        |                      | Rm 118                                     | 118                 |                      |                    |
| K        |                      | Rm 154                                     | 154                 |                      |                    |
| L        |                      | GIRLS R-R                                  |                     |                      |                    |
| M        |                      | Boys Rm                                    |                     |                      |                    |
| N        |                      | Rm 106                                     |                     |                      |                    |
| O        |                      | Rm 100                                     |                     |                      |                    |
| P        | gyp bd & st mud      | L: Rm 100 - mostly panned - plaster under? |                     |                      |                    |
| Q        | " " "                | Computer Lab                               |                     |                      |                    |
| R        | " " "                | Locker Level - (custodian)                 |                     |                      |                    |
| S        | " " "                | " " Rm 122                                 |                     |                      |                    |
| T        | " " "                | " " Rm 102                                 |                     |                      |                    |
| U        | " " "                | Storage by Food Court                      |                     |                      |                    |
| ACMA 29A | 3" AIR Cell          | Boiler Rm Turnell                          |                     |                      |                    |
| B        | 6" Wdg               | " " "                                      |                     |                      |                    |
| C        | 8" "                 | " " "                                      |                     |                      |                    |
| ACMA 29A | Concrete             | Barrier Rm Boiler Rm                       |                     |                      |                    |
| B        | " "                  | " " "                                      |                     |                      |                    |
| C        | " "                  | " " "                                      |                     |                      |                    |
| ACMA 28V | Plaster - partition  | Boiler Rm                                  |                     |                      |                    |
| 31A      | EXT STAIRS           | NORTH ENTRY BUILDING                       |                     |                      |                    |
| 31B      |                      | SOUTH MAIN ENTRY                           |                     |                      |                    |
| C        |                      | EAST ENTRY - SOUTH END                     |                     |                      |                    |

Paul [Signature] 12/25/17 1102  
4105 SE International Way, Suite 505, Milwaukie, OR 97222 Phone: (503) 387-3251 Fax: (503) 908-1318



# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0196574**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS Job# / P.O. #:  
Address: 4120 SE INTERNATIONAL WAY Date Received: 01/12/2018  
STE A110 Date Analyzed: 01/17/2018  
MILWAUKIE OR 97086  
Collected: 01/11/2018 Date Reported: 01/17/2018  
Project Name: BSD-ARTS & COMMUNICATION EPA Method: EPA 600/R-93/116  
ACADEMY (ACMA) Submitted By: JASON STONE  
Address: Collected By:

| Lab ID<br>Client ID     | Sample<br>Location  | Layer Name /<br>Sample Description  | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |
|-------------------------|---------------------|-------------------------------------|----------------------|----------------------|--|
| 0196574-001<br>ACMA-34A | BOILER RM<br>TUNNEL | Pipe Insulation, White/ Brown       | Yes                  | Chrysotile<br>70%    | Cellulose Fiber 15%<br>Carbonates<br>Quartz<br>Gypsum<br>Binder/Filler 15% |
| 0196574-002<br>ACMA-34B | BOILER RM<br>TUNNEL | Pipe Insulation, White/ Brown       | Yes                  | Chrysotile<br>70%    | Cellulose Fiber 15%<br>Carbonates<br>Quartz<br>Gypsum<br>Binder/Filler 15% |
| 0196574-003<br>ACMA-34C | BOILER RM<br>TUNNEL | Pipe Insulation, White/ Brown       | Yes                  | Chrysotile<br>70%    | Cellulose Fiber 15%<br>Carbonates<br>Quartz<br>Gypsum<br>Binder/Filler 15% |
| 0196574-004<br>ACMA-35A | STAFF RESTRM        | LAYER 1<br>12"x12" Floor Tile, Pink | No                   | None Detected        | Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 100%                       |
|                         |                     | LAYER 2<br>Glue, Tan                | No                   | None Detected        | Cellulose Fiber <1%<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 99% |

# EMC LABS, INC.

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Laboratory Report  
**0196574**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS Job# / P.O. #:  
Address: 4120 SE INTERNATIONAL WAY Date Received: 01/12/2018  
STE A110 Date Analyzed: 01/17/2018  
MILWAUKIE OR 97086  
Collected: 01/11/2018 Date Reported: 01/17/2018  
Project Name: BSD-ARTS & COMMUNICATION EPA Method: EPA 600/R-93/116  
ACADEMY (ACMA) Submitted By: JASON STONE  
Address: Collected By:

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description  | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |                          |
|-------------------------|--------------------|-------------------------------------|----------------------|----------------------|---|--------------------------|
| 0196574-005<br>ACMA-35B | STAFF RESTRM       | LAYER 1<br>12"x12" Floor Tile, Pink | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler                    | <1%<br><br><br><br>99%   |
|                         |                    | LAYER 2<br>Glue, Tan                | No                   | None Detected        | Cellulose Fiber<br>Synthetic Fiber<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler | 1%<br><1%<br><br><br>98% |
| 0196574-006<br>ACMA-35C | STAFF RESTRM       | LAYER 1<br>12"x12" Floor Tile, Pink | No                   | None Detected        | Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler                                       | <br><br><br>100%         |
|                         |                    | LAYER 2<br>Glue, Tan                | No                   | None Detected        | Cellulose Fiber<br>Synthetic Fiber<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler | 2%<br><1%<br><br><br>97% |
| 0196574-007<br>ACMA-36A |                    | Carpet Glue, Yellow                 | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler                    | <1%<br><br><br><br>99%   |
| 0196574-008<br>ACMA-36B |                    | Carpet Glue, Yellow                 | No                   | None Detected        | Synthetic Fiber<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler                    | 1%<br><br><br><br>99%    |

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Laboratory Report  
**0196574**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS Job# / P.O. #:   
Address: 4120 SE INTERNATIONAL WAY Date Received: 01/12/2018  
STE A110 Date Analyzed: 01/17/2018  
MILWAUKIE OR 97086  
Collected: 01/11/2018 Date Reported: 01/17/2018  
Project Name: BSD-ARTS & COMMUNICATION EPA Method: EPA 600/R-93/116  
ACADEMY (ACMA) Submitted By: JASON STONE  
Address:   
Collected By:

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |                             |
|-------------------------|--------------------|------------------------------------|----------------------|----------------------|---|-----------------------------|
| 0196574-009<br>ACMA-36C |                    | Carpet Glue, Yellow                | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler                            | <1%<br><br><br><br>99%      |
| 0196574-010<br>ACMA-37A | ENTRY              | 1x1 Ceiling Tile Glue, Yellow      | No                   | None Detected        | Cellulose Fiber<br>Mineral Wool<br>Carbonates<br>Gypsum<br>Quartz<br>Perlite<br>Binder/Filler | 1%<br>1%<br><br><br><br>98% |
| 0196574-011<br>ACMA-37B | ENTRY              | 1x1 Ceiling Tile, Yellow           | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Gypsum<br>Quartz<br>Perlite<br>Binder/Filler                 | <1%<br><br><br><br>99%      |
| 0196574-012<br>ACMA-37C | ENTRY              | 1x1 Ceiling Tile Glue, Yellow      | No                   | None Detected        | Cellulose Fiber<br>Mineral Wool<br>Carbonates<br>Gypsum<br>Quartz<br>Perlite<br>Binder/Filler | 1%<br>1%<br><br><br><br>98% |

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Laboratory Report  
**0196574**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS Job# / P.O. #:  
Address: 4120 SE INTERNATIONAL WAY Date Received: 01/12/2018  
STE A110 Date Analyzed: 01/17/2018  
MILWAUKIE OR 97086  
Collected: 01/11/2018 Date Reported: 01/17/2018  
Project Name: BSD-ARTS & COMMUNICATION EPA Method: EPA 600/R-93/116  
ACADEMY (ACMA) Submitted By: JASON STONE  
Address: Collected By:

| Lab ID    | Sample   | Layer Name /       | Asbestos | Asbestos Type | Non-Asbestos |
|-----------|----------|--------------------|----------|---------------|--------------|
| Client ID | Location | Sample Description | Detected | (%)           | Constituents |



Analyst - James A. Storm



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicated or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.



**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: Beaverton School District

Lab Log #: 0051820  
 Project #: 293358.0000.0000  
 Date Received: 01/15/2018  
 Date Analyzed: 01/15/2018

Site: Arts & Communication Magnet Academy, Beaverton, OR

**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color               | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|---------------------|------------|---------------|-----------|------------------------|------------|---------------|
| ACMA-38A   | White (tape)        | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-38A   | White (plaster)     | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-38A   | Brown (fiber board) | No         | Yes           | 3         | 99% cellulose          | ND         | None          |
| ACMA-38B   | White (tape)        | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-38B   | White (plaster)     | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-38B   | Brown (fiber board) | No         | Yes           | 3         | 99% cellulose          | ND         | None          |
| ACMA-38C   | White (tape)        | No         | Yes           | 1         | ---                    | ND         | None          |
| ACMA-38C   | White (plaster)     | No         | Yes           | 2         | ---                    | ND         | None          |
| ACMA-38C   | Brown (fiber board) | No         | Yes           | 3         | 99% cellulose          | ND         | None          |

Reporting limit- asbestos present at 1%  
 ND - asbestos was not detected  
 Trace - asbestos was observed at level of less than 1%  
 NA/PS - Not Analyzed / Positive Stop  
 SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

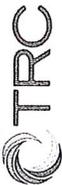
The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2018. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2018. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: K. Williamson Reviewed by: Cathryn Lemire Date Issued: 01/16/2018  
 Kathleen Williamson, Laboratory Manager Cathryn Lemire, Approved Signatory

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0 AIHA-LAP,LLC #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000411  
 RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907  
 CO# AL-15020 PHIL# 461 PA#68-03387



21 GRIFFIN ROAD NORTH  
 WINDSOR, CONNECTICUT 06095  
 TELEPHONE (860) 298-9692  
 FAX (860) 298-6380

## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

*Edition: October 2009  
 Supersede Previous Edition*

LAB ID #. **51820**

| PROJECT NUMBER<br><b>293358</b> |                | PROJECT NAME<br><b>ACMA</b> |          | PARAMETERS                |                              |                                     |  | TURNAROUND TIME  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
|---------------------------------|----------------|-----------------------------|----------|---------------------------|------------------------------|-------------------------------------|--|------------------|-----------------------------|--------------------------------------|----------|------|------|------|------|------|------|--|--|--|
|                                 |                |                             |          |                           |                              |                                     |  | PLM:             | TEM:                        | 8hr                                  | 24hr     | 48hr | 3day | 5day |      |      |      |  |  |  |
| FIELD SAMPLE NUMBER             | DATE           | TIME                        | TYPE     | INSPECTOR<br><b>EDGAY</b> | SAMPLE LOCATION              | PLM EPA 600/R93/116 (POSITIVE STOP) | PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP) | ANALYZE BY LAYER | POINT COUNT (IF >1% & <10%) | TEM NY NOB 198.4 (IF PLM SERIES NEG) | MATERIAL |      |      |      |      |      |      |  |  |  |
|                                 |                |                             |          |                           |                              |                                     |  |                  |                             |                                      | COMP     | GRAB | 8hr  | 24hr | 48hr | 3day | 5day |  |  |  |
| <b>ACMA-38A</b>                 | <b>1-12-18</b> | <b>10 AM</b>                | <b>X</b> |                           | <b>See - Following sheet</b> | <b>X</b>                            |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
| <b>B</b>                        | <b>↓</b>       | <b>↓</b>                    | <b>X</b> |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
| <b>C</b>                        | <b>↓</b>       | <b>↓</b>                    | <b>X</b> |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
|                                 |                |                             |          |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
|                                 |                |                             |          |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
|                                 |                |                             |          |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
|                                 |                |                             |          |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
|                                 |                |                             |          |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
|                                 |                |                             |          |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
|                                 |                |                             |          |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
|                                 |                |                             |          |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |
|                                 |                |                             |          |                           |                              |                                     |  |                  |                             |                                      |          |      |      |      |      |      |      |  |  |  |

|   |                          |  |                         |
|---|--------------------------|--|-------------------------|
| Relinquished by: (Signature)<br><b>Ed Gay</b> | Date:<br><b>1-12-18</b>  | Received by: (Signature)<br><i>[Signature]</i>   | Date:<br><b>1/15/18</b> |
| (Printed)<br><b>ED GAY</b>                    | Time:<br><b>12:30 PM</b> | (Printed)  | Time:<br><b>0900</b>    |
| Remarks:                                      |                          | Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Comments: |                         |



# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|------------------------------------|----------------------|----------------------|---|
| 0213967-001<br>ACMA-39A | DANCE STUDIO       | LAYER 1<br>Mastic, Black           | Yes                  | Chrysotile 8%        | Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 92%                                   |
|                         |                    | LAYER 2<br>Mastic, Brown           | No                   | None Detected        | Cellulose Fiber 2%<br>Carbonates<br>Quartz<br>Binder/Filler 98%                       |
| 0213967-002<br>ACMA-39B | DANCE STUDIO       | LAYER 1<br>Mastic, Black           | Yes                  | Chrysotile 5%        | Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 95%                                   |
|                         |                    | LAYER 2<br>Mastic, Brown           | No                   | None Detected        | Cellulose Fiber 2%<br>Synthetic Fiber 1%<br>Carbonates<br>Quartz<br>Binder/Filler 97% |
| 0213967-003<br>ACMA-39C | DANCE STUDIO       | LAYER 1<br>Mastic, Black           | Yes                  | Chrysotile 8%        | Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 92%                                   |
|                         |                    | LAYER 2<br>Mastic, Brown           | No                   | None Detected        | Cellulose Fiber 2%<br>Carbonates<br>Quartz<br>Binder/Filler 98%                       |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS Job# / P.O. #: 293358  
Address: 4105 SE INTERNATIONAL WAY Date Received: 01/14/2019  
STE 505 Date Analyzed: 01/21/2019  
MILWAUKIE OR 97222  
Collected: 01/10/2019 Date Reported: 01/21/2019  
Project Name: BSD-ARTS & COMMUNICATION EPA Method: EPA 600/R-93/116  
Address: MAGNET ACADEMY Submitted By: JASON STONE  
Collected By:

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description         | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents                                     |
|-------------------------|--------------------|--|----------------------|----------------------|--|
| 0213967-004<br>ACMA-40A | DANCE STUDIO       | LAYER 1<br>Univent Vinyl, Beige/ Gray/ Tan | No                   | None Detected        | Cellulose Fiber 20%<br>Carbonates<br>Quartz<br>Binder/Filler 80% |
|                         |                    | LAYER 2<br>Glue, Brown                     | No                   | None Detected        | Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 95%  |
| 0213967-005<br>ACMA-40B | A136               | LAYER 1<br>Univent Vinyl, Beige/ Gray/ Tan | No                   | None Detected        | Cellulose Fiber 20%<br>Carbonates<br>Quartz<br>Binder/Filler 80% |
|                         |                    | LAYER 2<br>Glue, Brown                     | No                   | None Detected        | Cellulose Fiber 3%<br>Carbonates<br>Quartz<br>Binder/Filler 97%  |
| 0213967-006<br>ACMA-40C | A134               | LAYER 1<br>Univent Vinyl, Beige/ Gray/ Tan | No                   | None Detected        | Cellulose Fiber 20%<br>Carbonates<br>Quartz<br>Binder/Filler 80% |
|                         |                    | LAYER 2<br>Glue, Brown                     | No                   | None Detected        | Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 95%  |
| 0213967-007<br>ACMA-41A | HALLWAY            | Wood Panel Glue, Yellow                    | No                   | None Detected        | Cellulose Fiber 1%<br>Carbonates<br>Quartz<br>Binder/Filler 99%  |

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## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS Job# / P.O. #: 293358  
Address: 4105 SE INTERNATIONAL WAY Date Received: 01/14/2019  
STE 505 Date Analyzed: 01/21/2019  
MILWAUKIE OR 97222  
Collected: 01/10/2019 Date Reported: 01/21/2019  
Project Name: BSD-ARTS & COMMUNICATION EPA Method: EPA 600/R-93/116  
Address: MAGNET ACADEMY Submitted By: JASON STONE  
Collected By:

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents                             |                   |
|-------------------------|--------------------|------------------------------------|----------------------|----------------------|--|-------------------|
| 0213967-008<br>ACMA-41B | HALLWAY            | Wood Panel Glue, Yellow            | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 3%<br><br><br>97% |
| 0213967-009<br>ACMA-41C | HALLWAY            | Wood Panel Glue, Yellow            | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 1%<br><br><br>99% |
| 0213967-010<br>ACMA-42A | A136               | Sink Undercoating, White           | No                   | None Detected        | Carbonates<br>Quartz<br>Binder/Filler                    | <br><br>100%      |
| 0213967-011<br>ACMA-42B | A134               | Sink Undercoating, White           | No                   | None Detected        | Carbonates<br>Quartz<br>Binder/Filler                    | <br><br>100%      |
| 0213967-012<br>ACMA-42C | A132               | Sink Undercoating, White           | No                   | None Detected        | Carbonates<br>Quartz<br>Binder/Filler                    | <br><br>100%      |
| 0213967-013<br>ACMA-43A | A136               | Counter Top Glue, Yellow           | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Binder/Filler           | 3%<br><br>97%     |
| 0213967-014<br>ACMA-43B | A134               | Counter Top Glue, Yellow           | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Binder/Filler           | 3%<br><br>97%     |

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## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description                               | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |                  |
|-------------------------|--------------------|--|----------------------|----------------------|--|------------------|
| 0213967-015<br>ACMA-43C | A132               | Counter Top Glue, Yellow   | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Binder/Filler                             | 3%<br>97%        |
| 0213967-016<br>ACMA-44A | A136               | LAYER 1<br>Gypsum Board, White/ Brown                            | No                   | None Detected        | Cellulose Fiber<br>Fibrous Glass<br>Gypsum<br>Carbonates<br>Mica<br>Quartz | 10%<br>2%<br>88% |
|                         |                    | LAYER 2<br>Joint Compound/ Paint, White/<br>Off White            | No                   | None Detected        | Carbonates<br>Perlite<br>Mica<br>Quartz<br>Binder/Filler                   | 100%             |
| 0213967-017<br>ACMA-44B | A104               | LAYER 1<br>Gypsum Board, White/ Brown                            | No                   | None Detected        | Cellulose Fiber<br>Fibrous Glass<br>Gypsum<br>Carbonates<br>Mica<br>Quartz | 10%<br>2%<br>88% |
|                         |                    | LAYER 2<br>Joint Compound/ Paint, White/<br>Off White            | No                   | None Detected        | Carbonates<br>Perlite<br>Mica<br>Quartz<br>Binder/Filler                   | 100%             |
| 0213967-018<br>ACMA-44C | A104               | Gypsum Board, White/ Brown<br>Note: No Joint Compound<br>Present | No                   | None Detected        | Cellulose Fiber<br>Fibrous Glass<br>Gypsum<br>Carbonates<br>Mica<br>Quartz | 10%<br>2%<br>88% |

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Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS Job# / P.O. #: 293358  
Address: 4105 SE INTERNATIONAL WAY Date Received: 01/14/2019  
STE 505 Date Analyzed: 01/21/2019  
MILWAUKIE OR 97222  
Collected: 01/10/2019 Date Reported: 01/21/2019  
Project Name: BSD-ARTS & COMMUNICATION EPA Method: EPA 600/R-93/116  
Address: MAGNET ACADEMY Submitted By: JASON STONE  
Collected By:

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description                   | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |                   |
|-------------------------|--------------------|--|----------------------|----------------------|---|-------------------|
| 0213967-019<br>ACMA-45A | A132               | Univent Counter Top Glue, Tan                        | No                   | None Detected        | Carbonates<br>Quartz<br>Binder/Filler                                       | 100%              |
| 0213967-020<br>ACMA-45B | A130               | Univent Counter Top Glue, Tan                        | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler                    | <1%<br>99%        |
| 0213967-021<br>ACMA-45C | A132               | Univent Counter Top Glue, Tan                        | No                   | None Detected        | Cellulose Fiber<br>Synthetic Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 1%<br><1%<br>98%  |
| 0213967-022<br>ACMA-46A | A140               | LAYER 1<br>Corkboard, Brown<br>Note: No Glue Present | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Gypsum<br>Binder/Filler                    | 90%<br>10%        |
|                         |                    | LAYER 2<br>Corkboard Cover, White                    | No                   | None Detected        | Cellulose Fiber<br>Synthetic Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 30%<br>25%<br>45% |
| 0213967-023<br>ACMA-46B | A142               | LAYER 1<br>Corkboard, Brown<br>Note: No Glue Present | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Gypsum<br>Binder/Filler                    | 90%<br>10%        |
|                         |                    | LAYER 2<br>Corkboard Cover, White                    | No                   | None Detected        | Cellulose Fiber<br>Synthetic Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 30%<br>25%<br>45% |

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Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|------------------------------------|----------------------|----------------------|---|
| 0213967-024<br>ACMA-46C | HALLWAY            | LAYER 1<br>Corkboard, Brown        | No                   | None Detected        | Cellulose Fiber 90%<br>Carbonates<br>Gypsum<br>Binder/Filler 10%                        |
|                         |                    | LAYER 2<br>Corkboard Cover, White  | No                   | None Detected        | Cellulose Fiber 30%<br>Synthetic Fiber 25%<br>Carbonates<br>Quartz<br>Binder/Filler 45% |
|                         |                    | LAYER 3<br>Glue, Yellow            | No                   | None Detected        | Cellulose Fiber 1%<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 99%               |
| 0213967-025<br>ACMA-47A | A142               | Sink Undercoating, Gray            | No                   | None Detected        | Cellulose Fiber 10%<br>Carbonates<br>Mica<br>Quartz<br>Binder/Filler 90%                |
| 0213967-026<br>ACMA-47B | A128               | Sink Undercoating, Gray            | No                   | None Detected        | Cellulose Fiber 10%<br>Carbonates<br>Mica<br>Quartz<br>Binder/Filler 90%                |
| 0213967-027<br>ACMA-47C | LIBRARY            | Sink Undercoating, Gray            | No                   | None Detected        | Cellulose Fiber 10%<br>Carbonates<br>Mica<br>Quartz<br>Binder/Filler 90%                |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description  | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |                            |
|-------------------------|--------------------|---|----------------------|----------------------|---|----------------------------|
| 0213967-028<br>ACMA-48A | A128               | 1'x1' Nailed-on Ceiling Tile,<br>White/ Off White<br>Note: Fissures Pattern | No                   | None Detected        | Mineral Wool<br>Carbonates<br>Quartz<br>Gypsum<br>Perlite<br>Binder/Filler  | 85%<br><br><br><br><br>15% |
| 0213967-029<br>ACMA-48B | A128               | 1'x1' Nailed-on Ceiling Tile,<br>White/ Off White<br>Note: Fissures Pattern | No                   | None Detected        | Mineral Wool<br>Carbonates<br>Quartz<br>Gypsum<br>Perlite<br>Binder/Filler  | 85%<br><br><br><br><br>15% |
| 0213967-030<br>ACMA-48C | A128               | 1'x1' Nailed-on Ceiling Tile,<br>White/ Off White<br>Note: Fissures Pattern | No                   | None Detected        | Mineral Wool<br>Carbonates<br>Quartz<br>Gypsum<br>Perlite<br>Binder/Filler  | 85%<br><br><br><br><br>15% |
| 0213967-031<br>ACMA-49A | HALLWAY            | LAYER 1<br>Floor Tile, Brown/ Black   | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler                    | 3%<br><br><br>97%          |
|                         |                    | LAYER 2<br>Glue, Yellow   | No                   | None Detected        | Cellulose Fiber<br>Synthetic Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 4%<br><1%<br><br><br>95%   |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description  | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents              |     |
|-------------------------|--------------------|-------------------------------------|----------------------|----------------------|---|-----|
| 0213967-032<br>ACMA-49B | HALLWAY            | LAYER 1<br>Floor Tile, Brown/ Black | No                   | None Detected        | Cellulose Fiber                           | 3%  |
|                         |                    |                                     |                      |                      | Carbonates<br>Quartz<br>Binder/Filler     | 97% |
|                         |                    | LAYER 2<br>Glue, Yellow             | No                   | None Detected        | Cellulose Fiber                           | 3%  |
|                         |                    |                                     |                      |                      | Synthetic Fiber                           | <1% |
|                         |                    |                                     |                      |                      | Carbonates<br>Quartz<br>Binder/Filler     | 96% |
| 0213967-033<br>ACMA-49C | HALLWAY            | LAYER 1<br>Floor Tile, Brown/ Black | No                   | None Detected        | Cellulose Fiber                           | 3%  |
|                         |                    |                                     |                      |                      | Carbonates<br>Quartz<br>Binder/Filler     | 97% |
|                         |                    | LAYER 2<br>Glue, Yellow             | No                   | None Detected        | Cellulose Fiber                           | 4%  |
|                         |                    |                                     |                      |                      | Synthetic Fiber                           | <1% |
|                         |                    |                                     |                      |                      | Carbonates<br>Quartz<br>Binder/Filler     | 95% |
| 0213967-034<br>ACMA-50A | A118               | Wall Plaster, White                 | No                   | None Detected        | Cellulose Fiber                           | <1% |
|                         |                    |                                     |                      |                      | Quartz<br>Gypsum<br>Mica<br>Binder/Filler | 99% |

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## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description                     | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |                            |
|-------------------------|--------------------|--|----------------------|----------------------|--|----------------------------|
| 0213967-035<br>ACMA-50B | A118               | LAYER 1<br>Wall Plaster-Scratch Coat, Gray             | No                   | None Detected        | Cellulose Fiber<br>Quartz<br>Gypsum<br>Mica<br>Carbonates<br>Binder/Filler | <1%<br><br><br><br><br>99% |
|                         |                    | LAYER 2<br>Wall Plaster-Finish Coat, White             | No                   | None Detected        | Cellulose Fiber<br>Quartz<br>Gypsum<br>Mica<br>Carbonates<br>Binder/Filler | 1%<br><br><br><br><br>99%  |
|                         |                    | LAYER 3<br>Wall Plaster-Texture/Paint, White/<br>Green | No                   | None Detected        | Carbonates<br>Quartz<br>Binder/Filler                                      | <br><br>100%               |
| 0213967-036<br>ACMA-50C | BREAK RM           | LAYER 1<br>Wall Plaster-Scratch Coat, Gray             | No                   | None Detected        | Cellulose Fiber<br>Quartz<br>Gypsum<br>Mica<br>Carbonates<br>Binder/Filler | <1%<br><br><br><br><br>99% |
|                         |                    | LAYER 2<br>Wall Plaster-Finish Coat, White             | No                   | None Detected        | Cellulose Fiber<br>Quartz<br>Gypsum<br>Mica<br>Carbonates<br>Binder/Filler | <1%<br><br><br><br><br>99% |
|                         |                    | LAYER 3<br>Wall Plaster-Texture/Paint, White           | No                   | None Detected        | Cellulose Fiber<br>Quartz<br>Gypsum<br>Binder/Filler                       | <1%<br><br><br>99%         |

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description           | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |
|-------------------------|--------------------|--|----------------------|----------------------|--|
| 0213967-037<br>ACMA-51A | STAFF RR 1         | LAYER 1<br>Vinyl Sheet Flooring, Gray/ Beige | No                   | None Detected        | Cellulose Fiber 15%<br>Synthetic Fiber 3%<br>Fibrous Glass 2%<br>Carbonates<br>Quartz<br>Gypsum<br>Binder/Filler 80% |
|                         |                    | LAYER 2<br>Mastic, Beige                     | No                   | None Detected        | Cellulose Fiber 3%<br>Synthetic Fiber 1%<br>Fibrous Glass <1%<br>Carbonates<br>Quartz<br>Gypsum<br>Binder/Filler 95% |
| 0213967-038<br>ACMA-51B | STAFF RR 1         | LAYER 1<br>Vinyl Sheet Flooring, Gray/ Beige | No                   | None Detected        | Cellulose Fiber 15%<br>Synthetic Fiber 3%<br>Fibrous Glass 2%<br>Carbonates<br>Quartz<br>Gypsum<br>Binder/Filler 80% |
|                         |                    | LAYER 2<br>Mastic, Beige                     | No                   | None Detected        | Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Gypsum<br>Binder/Filler 95%  |

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## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description           | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |
|-------------------------|--------------------|--|----------------------|----------------------|--|
| 0213967-039<br>ACMA-51C | STAFF RR 1         | LAYER 1<br>Vinyl Sheet Flooring, Gray/ Beige | No                   | None Detected        | Cellulose Fiber 15%<br>Synthetic Fiber 3%<br>Fibrous Glass 2%<br>Carbonates<br>Quartz<br>Gypsum<br>Binder/Filler 80% |
|                         |                    | LAYER 2<br>Mastic, Beige                     | No                   | None Detected        | Cellulose Fiber 3%<br>Synthetic Fiber 1%<br>Fibrous Glass <1%<br>Carbonates<br>Quartz<br>Gypsum<br>Binder/Filler 95% |
| 0213967-040<br>ACMA-52A |                    | Window Glazing, Off White/ Beige             | No                   | None Detected        | Carbonates<br>Quartz<br>Binder/Filler 100%   |
| 0213967-041<br>ACMA-52B |                    | Window Glazing, Off White/ Beige             | No                   | None Detected        | Carbonates<br>Quartz<br>Binder/Filler 100%   |
| 0213967-042<br>ACMA-52C |                    | Window Glazing, Off White/ Beige             | Yes                  | Chrysotile 2%        | Cellulose Fiber <1%<br>Carbonates<br>Quartz<br>Binder/Filler 97%   |
| 0213967-043<br>ACMA-53A | ROOF HATCH         | Vapor Barrier, Black                         | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                                 |

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## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |                          |
|-------------------------|--------------------|------------------------------------|----------------------|----------------------|---|--------------------------|
| 0213967-044<br>ACMA-53B | ROOF HATCH         | Vapor Barrier, Black               | No                   | None Detected        | Fibrous Glass<br>Synthetic Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 15%<br>5%<br><br><br>80% |
| 0213967-045<br>ACMA-53C | ROOF HATCH         | Vapor Barrier, Black               | No                   | None Detected        | Fibrous Glass<br>Synthetic Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 15%<br>5%<br><br><br>80% |
| 0213967-046<br>ACMA-54A | LIBRARY            | Roof Mastic, Black                 | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler                  | 1%<br><br><br>99%        |
| 0213967-047<br>ACMA-54B | LIBRARY            | Roof Mastic, Black                 | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler                  | 1%<br><br><br>99%        |
| 0213967-048<br>ACMA-54C | LIBRARY            | Roof Mastic, Black                 | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler                  | <1%<br><br><br>99%       |
| 0213967-049<br>ACMA-55A | LIBRARY            | Roof Paint, Silver                 | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler                  | <1%<br><br><br>99%       |
| 0213967-050<br>ACMA-55B | FRONT ENTRY        | Roof Paint, Silver                 | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler                  | <1%<br><br><br>99%       |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description     | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents                             |                   |
|-------------------------|--------------------|--|----------------------|----------------------|--|-------------------|
| 0213967-051<br>ACMA-55C | A146               | Roof Paint, Silver                     | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 1%<br><br><br>99% |
| 0213967-052<br>ACMA-56A | CAFETERIA          | LAYER 1<br>Roofing, Gray/ Black        | No                   | None Detected        | Fibrous Glass<br>Carbonates<br>Quartz<br>Binder/Filler   | 20%<br><br>80%    |
|                         |                    | LAYER 2<br>Roofing, Dk. Gray/ Black    | No                   | None Detected        | Fibrous Glass<br>Carbonates<br>Quartz<br>Binder/Filler   | 20%<br><br>80%    |
|                         |                    | LAYER 3<br>Roofing, Brown/ Gray/ Black | No                   | None Detected        | Fibrous Glass<br>Carbonates<br>Quartz<br>Binder/Filler   | 20%<br><br>80%    |
|                         |                    | LAYER 4<br>Roofing, Black              | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 40%<br><br>60%    |
| 0213967-053<br>ACMA-56B | CAFETERIA          | LAYER 1<br>Roofing, Gray/ Black        | No                   | None Detected        | Fibrous Glass<br>Carbonates<br>Quartz<br>Binder/Filler   | 20%<br><br>80%    |
|                         |                    | LAYER 2<br>Roofing, Brown/ Gray/ Black | No                   | None Detected        | Fibrous Glass<br>Carbonates<br>Quartz<br>Binder/Filler   | 20%<br><br>80%    |
|                         |                    | LAYER 3<br>Roofing, Black              | No                   | None Detected        | Cellulose Fiber<br>Carbonates<br>Quartz<br>Binder/Filler | 40%<br><br>60%    |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description     | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents                                     |
|-------------------------|--------------------|--|----------------------|----------------------|--|
| 0213967-054<br>ACMA-56C | CAFETERIA          | LAYER 1<br>Roofing, Gray/ Black        | No                   | None Detected        | Fibrous Glass 20%<br>Carbonates<br>Quartz<br>Binder/Filler 80%   |
|                         |                    | LAYER 2<br>Roofing, Brown/ Gray/ Black | No                   | None Detected        | Fibrous Glass 20%<br>Carbonates<br>Quartz<br>Binder/Filler 80%   |
|                         |                    | LAYER 3<br>Roofing, Black              | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Quartz<br>Binder/Filler 60% |
| 0213967-055<br>ACMA-57A | LOWER LEVEL RR     | Wall Panel Glue, Tan                   | No                   | None Detected        | Cellulose Fiber 5%<br>Carbonates<br>Gypsum<br>Binder/Filler 95%  |
| 0213967-056<br>ACMA-57B | LOWER LEVEL RR     | Wall Panel Glue, Tan                   | No                   | None Detected        | Cellulose Fiber 5%<br>Carbonates<br>Gypsum<br>Binder/Filler 95%  |
| 0213967-057<br>ACMA-57C | LOWER LEVEL RR     | Wall Panel Glue, Tan                   | No                   | None Detected        | Cellulose Fiber 5%<br>Carbonates<br>Gypsum<br>Binder/Filler 95%  |

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Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description           | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |
|-------------------------|--------------------|--|----------------------|----------------------|--|
| 0213967-058<br>ACMA-58A | A136               | LAYER 1<br>Built-up Roofing, Dk. Gray/ Black | No                   | None Detected        | Cellulose Fiber 15%<br>Synthetic Fiber 3%<br>Fibrous Glass 2%<br>Carbonates<br>Quartz<br>Binder/Filler 80% |
|                         |                    | LAYER 2<br>Built-up Roofing, Black           | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Gypsum<br>Binder/Filler 60%   |
|                         |                    | LAYER 3<br>Built-up Roofing, Black           | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Gypsum<br>Binder/Filler 60%   |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan      | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%  |
| 0213967-059<br>ACMA-58B | A130               | LAYER 1<br>Built-up Roofing, Dk. Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                       |
|                         |                    | LAYER 2<br>Built-up Roofing, Black           | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 60%                                 |
|                         |                    | LAYER 3<br>Built-up Roofing, Black           | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 60%                                 |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan      | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%  |

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Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description           | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |
|-------------------------|--------------------|--|----------------------|----------------------|--|
| 0213967-060<br>ACMA-58C | A146               | LAYER 1<br>Built-up Roofing, Dk. Gray/ Black | No                   | None Detected        | Cellulose Fiber 15%<br>Synthetic Fiber 3%<br>Fibrous Glass 2%<br>Carbonates<br>Quartz<br>Binder/Filler 80% |
|                         |                    | LAYER 2<br>Built-up Roofing, Black           | No                   | None Detected        | Cellulose Fiber 35%<br>Fibrous Glass 5%<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 60%             |
|                         |                    | LAYER 3<br>Built-up Roofing, Black           | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Gypsum<br>Binder/Filler 60%   |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan      | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%  |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description           | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |
|-------------------------|--------------------|--|----------------------|----------------------|--|
| 0213967-061<br>ACMA-59A | A148               | LAYER 1<br>Built-up Roofing, Dk. Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                       |
|                         |                    | LAYER 2<br>Built-up Roofing, Black           | No                   | None Detected        | Fibrous Glass 30%<br>Cellulose Fiber 5%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 60% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black           | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Gypsum<br>Binder/Filler 60%   |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan      | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%  |

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## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description           | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |
|-------------------------|--------------------|--|----------------------|----------------------|--|
| 0213967-062<br>ACMA-59B | A116               | LAYER 1<br>Built-up Roofing, Dk. Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                       |
|                         |                    | LAYER 2<br>Built-up Roofing, Black           | No                   | None Detected        | Fibrous Glass 30%<br>Cellulose Fiber 5%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 60% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black           | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 60%                                 |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan      | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%  |

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## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description                | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|---|----------------------|----------------------|---|
| 0213967-063<br>ACMA-59C | A156               | LAYER 1<br>Built-up Roofing, Dk. Gray/ Black      | No                   | None Detected        | Fibrous Glass 10%<br>Synthetic Fiber 10%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                                 |
|                         |                    | LAYER 2<br>Built-up Roofing, Black                | No                   | None Detected        | Cellulose Fiber 30%<br>Fibrous Glass 10%<br>Synthetic Fiber 5%<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 55% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black                | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Gypsum<br>Binder/Filler 60%  |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan/<br>Black | No                   | None Detected        | Cellulose Fiber 70%<br>Gypsum<br>Binder/Filler 30%  |

# EMC LABS, INC.

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Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description                | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|---|----------------------|----------------------|---|
| 0213967-064<br>ACMA-60A | A108               | LAYER 1<br>Built-up Roofing, Dk. Gray/ Black      | No                   | None Detected        | Fibrous Glass 10%<br>Synthetic Fiber 10%<br>Carbonates<br>Quartz<br>Binder/Filler 80%           |
|                         |                    | LAYER 2<br>Built-up Roofing, Black                | No                   | None Detected        | Fibrous Glass 35%<br>Synthetic Fiber 10%<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 55% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black                | No                   | None Detected        | Fibrous Glass 35%<br>Cellulose Fiber 5%<br>Carbonates<br>Gypsum<br>Quartz<br>Binder/Filler 60%  |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan/<br>Black | No                   | None Detected        | Cellulose Fiber 85%<br>Gypsum<br>Binder/Filler 15%  |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description           | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|--|----------------------|----------------------|---|
| 0213967-065<br>ACMA-60B | OFFICE             | LAYER 1<br>Built-up Roofing, Dk. Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%  |
|                         |                    | LAYER 2<br>Built-up Roofing, Black           | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Carbonates<br>Quartz<br>Binder/Filler 60% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black           | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Gypsum<br>Binder/Filler 60%                      |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan      | No                   | None Detected        | Cellulose Fiber 90%<br>Gypsum<br>Binder/Filler 10%                                    |
| 0213967-066<br>ACMA-60C | A102               | LAYER 1<br>Built-up Roofing, Dk. Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%  |
|                         |                    | LAYER 2<br>Built-up Roofing, Black           | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Gypsum<br>Binder/Filler 60%                      |
|                         |                    | LAYER 3<br>Built-up Roofing, Black/ Brown    | No                   | None Detected        | Cellulose Fiber 70%<br>Gypsum<br>Binder/Filler 30%                                    |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan      | No                   | None Detected        | Cellulose Fiber 90%<br>Gypsum<br>Binder/Filler 10%                                    |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description           | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |
|-------------------------|--------------------|--|----------------------|----------------------|--|
| 0213967-067<br>ACMA-61A | LIBRARY EAST       | LAYER 1<br>Built-up Roofing, Dk. Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                       |
|                         |                    | LAYER 2<br>Built-up Roofing, Black           | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Carbonates<br>Quartz<br>Binder/Filler 60%                      |
|                         |                    | LAYER 3<br>Built-up Roofing, Black           | No                   | None Detected        | Fibrous Glass 30%<br>Cellulose Fiber 5%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 60% |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan      | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%  |
| 0213967-068<br>ACMA-61B | LIBRARY NORTH      | LAYER 1<br>Built-up Roofing/ Paint, Silver   | No                   | None Detected        | Cellulose Fiber 1%<br>Carbonates<br>Quartz<br>Binder/Filler 99%  |
|                         |                    | LAYER 2<br>Built-up Roofing, Dk. Gray/ Black | No                   | None Detected        | Fibrous Glass 20%<br>Carbonates<br>Quartz<br>Binder/Filler 80%   |
|                         |                    | LAYER 3<br>Built-up Roofing, Black           | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Carbonates<br>Quartz<br>Binder/Filler 60%                      |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan      | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%  |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description            | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|---|----------------------|----------------------|---|
| 0213967-069<br>ACMA-61C | LIBRARY WEST       | LAYER 1<br>Built-up Roofing/ Paint, Silver    | No                   | None Detected        | Cellulose Fiber 3%<br>Carbonates<br>Quartz<br>Binder/Filler 97%   |
|                         |                    | LAYER 2<br>Built-up Roofing, Dk. Gray/ Black  | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                        |
|                         |                    | LAYER 3<br>Built-up Roofing, Black            | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Carbonates<br>Quartz<br>Binder/Filler 60%                       |
|                         |                    | LAYER 4<br>Built-up Roofing, Beige/ Tan       | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%   |
| 0213967-070<br>ACMA-62A | BREEZEWAY<br>ENTRY | LAYER 1<br>Built-up Roofing, Off White/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                        |
|                         |                    | LAYER 2<br>Built-up Roofing, Black            | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 55% |

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## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description            | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|---|----------------------|----------------------|---|
| 0213967-071<br>ACMA-62B | BREEZEWAY<br>ENTRY | LAYER 1<br>Built-up Roofing, Off White/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Cellulose Fiber 3%<br>Synthetic Fiber 2%<br>Carbonates<br>Quartz<br>Binder/Filler 80%  |
|                         |                    | LAYER 2<br>Built-up Roofing, Black            | No                   | None Detected        | Fibrous Glass 40%<br>Carbonates<br>Quartz<br>Binder/Filler 60%  |
|                         |                    | LAYER 3<br>Built-up Roofing, Black            | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Quartz<br>Binder/Filler 60%  |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan              | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%   |
| 0213967-072<br>ACMA-62C | STORAGE            | LAYER 1<br>Built-up Roofing, Gray/ Black      | No                   | None Detected        | Fibrous Glass 15%<br>Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                        |
|                         |                    | LAYER 2<br>Built-up Roofing, Black            | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 55% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black            | No                   | None Detected        | Fibrous Glass 30%<br>Cellulose Fiber 10%<br>Carbonates<br>Quartz<br>Binder/Filler 60%                       |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan              | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%   |

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Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description       | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|--|----------------------|----------------------|---|
| 0213967-073<br>ACMA-63A | BOILER EAST        | LAYER 1<br>Built-up Roofing, Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                        |
|                         |                    | LAYER 2<br>Built-up Roofing, Black       | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 55% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black       | No                   | None Detected        | Cellulose Fiber 40%<br>Carbonates<br>Quartz<br>Binder/Filler 60%  |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan         | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%   |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description       | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents   |
|-------------------------|--------------------|--|----------------------|----------------------|--|
| 0213967-074<br>ACMA-63B | BOILER NORTH       | LAYER 1<br>Built-up Roofing, Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 3%<br>Cellulose Fiber 2%<br>Carbonates<br>Quartz<br>Binder/Filler 80% |
|                         |                    | LAYER 2<br>Built-up Roofing, Black       | No                   | None Detected        | Fibrous Glass 30%<br>Cellulose Fiber 5%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 60% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black       | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Carbonates<br>Quartz<br>Binder/Filler 60%                      |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan         | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%  |

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Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description       | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|--|----------------------|----------------------|---|
| 0213967-075<br>ACMA-63C | BOILER WEST        | LAYER 1<br>Built-up Roofing, Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                        |
|                         |                    | LAYER 2<br>Built-up Roofing, Black       | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 55% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black       | No                   | None Detected        | Cellulose Fiber 70%<br>Carbonates<br>Quartz<br>Binder/Filler 30%  |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan         | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%   |
| 0213967-076<br>ACMA-64A | BREEZEWAY          | LAYER 1<br>Built-up Roofing, Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                        |
|                         |                    | LAYER 2<br>Built-up Roofing, Black       | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 55% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black       | No                   | None Detected        | Cellulose Fiber 70%<br>Carbonates<br>Quartz<br>Binder/Filler 30%  |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan         | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%   |

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**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description       | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|--|----------------------|----------------------|---|
| 0213967-077<br>ACMA-64B | BREEZEWAY          | LAYER 1<br>Built-up Roofing, Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                        |
|                         |                    | LAYER 2<br>Built-up Roofing, Black       | No                   | None Detected        | Cellulose Fiber 40%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 55%                      |
|                         |                    | LAYER 3<br>Built-up Roofing, Black       | No                   | None Detected        | Cellulose Fiber 70%<br>Carbonates<br>Quartz<br>Binder/Filler 30%  |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan         | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%   |
| 0213967-078<br>ACMA-64C | BREEZEWAY          | LAYER 1<br>Built-up Roofing, Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%                        |
|                         |                    | LAYER 2<br>Built-up Roofing, Black       | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 10%<br>Cellulose Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 55% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black       | No                   | None Detected        | Cellulose Fiber 70%<br>Carbonates<br>Gypsum<br>Binder/Filler 30%  |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan         | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%   |

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Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description       | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|--|----------------------|----------------------|---|
| 0213967-079<br>ACMA-65A | STORAGE 9          | LAYER 1<br>Built-up Roofing, Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%  |
|                         |                    | LAYER 2<br>Built-up Roofing, Black       | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 15%<br>Carbonates<br>Quartz<br>Binder/Filler 55% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black       | No                   | None Detected        | Cellulose Fiber 70%<br>Carbonates<br>Quartz<br>Binder/Filler 30%                      |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan         | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%                                     |
| 0213967-080<br>ACMA-65B | STORAGE 9/10       | LAYER 1<br>Built-up Roofing, Gray/ Black | No                   | None Detected        | Fibrous Glass 15%<br>Synthetic Fiber 5%<br>Carbonates<br>Quartz<br>Binder/Filler 80%  |
|                         |                    | LAYER 2<br>Built-up Roofing, Black       | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 15%<br>Carbonates<br>Quartz<br>Binder/Filler 55% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black       | No                   | None Detected        | Cellulose Fiber 70%<br>Carbonates<br>Quartz<br>Binder/Filler 30%                      |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan         | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%                                     |

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0213967**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

|               |                           |                |                  |
|---------------|---------------------------|----------------|------------------|
| Client:       | TRC SOLUTIONS             | Job# / P.O. #: | 293358           |
| Address:      | 4105 SE INTERNATIONAL WAY | Date Received: | 01/14/2019       |
|               | STE 505                   | Date Analyzed: | 01/21/2019       |
|               | MILWAUKIE OR 97222        |                |                  |
| Collected:    | 01/10/2019                | Date Reported: | 01/21/2019       |
| Project Name: | BSD-ARTS & COMMUNICATION  | EPA Method:    | EPA 600/R-93/116 |
| Address:      | MAGNET ACADEMY            | Submitted By:  | JASON STONE      |
|               |                           | Collected By:  |                  |

| Lab ID<br>Client ID     | Sample<br>Location | Layer Name /<br>Sample Description       | Asbestos<br>Detected | Asbestos Type<br>(%) | Non-Asbestos<br>Constituents  |
|-------------------------|--------------------|--|----------------------|----------------------|---|
| 0213967-081<br>ACMA-65C | STORAGE 10         | LAYER 1<br>Built-up Roofing, Gray/ Black | No                   | None Detected        | Fibrous Glass 10%<br>Synthetic Fiber 10%<br>Carbonates<br>Quartz<br>Binder/Filler 80% |
|                         |                    | LAYER 2<br>Built-up Roofing, Black       | No                   | None Detected        | Fibrous Glass 30%<br>Synthetic Fiber 15%<br>Carbonates<br>Quartz<br>Binder/Filler 55% |
|                         |                    | LAYER 3<br>Built-up Roofing, Black       | No                   | None Detected        | Cellulose Fiber 70%<br>Carbonates<br>Quartz<br>Binder/Filler 30%                      |
|                         |                    | LAYER 4<br>Built-up Roofing, Tan         | No                   | None Detected        | Cellulose Fiber 95%<br>Gypsum<br>Binder/Filler 5%                                     |



Analyst - James A. Storm



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicated or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

**CHAIN OF CUSTODY**  
 EMC Labs, Inc.  
 9830 S. 51<sup>st</sup> St., Ste B-109  
 Phoenix, AZ 85044  
 (480) 940-5294 Fax (480) 893-1726

LAB#: 213967  
 TAT: 3 day  
 Rec'd: JAN 14 P.M.

COMPANY NAME: TRC SOLUTIONS  
 Address: 4105 SE International Way, Suite 505  
Milwaukie, Oregon 97222  
 CONTACT: Ron Landolt Scan & Excel  
 Phone/Fax: (503) 387-3251 / (503) 908-1318  
 Email: rlandolt@trcsolutions.com and mncuda@trcsolutions.com

BILL TO: \_\_\_\_\_ (If Different Location)  
 Phoenix, AZ \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**

1. **TURNAROUND TIME:** [Same Day Rush] [1-2 Days]  [3-4-5 Days] [6-10 Days]

\*\*\*\*Prior confirmation of turnaround time is required  
 \*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)  
 \*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:**  [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]  
 (If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

4. Project Name: BSP-Arts & Communication Magnet Academy  
 P.O. Number: \_\_\_\_\_ Project Number: 293358

| EMC SAMPLE # | CLIENT SAMPLE # | DATE & TIME SAMPLED | LOCATION/MATERIAL TYPE                  | Samples Accepted Yes / No | AIR SAMPLE INFO / COMMENTS |     |           |
|--------------|-----------------|---------------------|---|---------------------------|----------------------------|-----|-----------|
|              |                 |                     |   |                           | ON                         | OFF | FLOW RATE |
| 1            | ACMA-39A        |                     | Black Mastic under Wood (Dance Studio)  | Y                         | N                          |     |           |
| 2            | -39B            |                     | ↓                                       | Y                         | N                          |     |           |
| 3            | -39C            |                     | ↓                                       | Y                         | N                          |     |           |
| 4            | -40A            |                     | Univent Vinyl & Glue (Brown) (Dance Rm) | Y                         | N                          |     |           |
| 5            | -40B            |                     | ↓ (A136)                                | Y                         | N                          |     |           |
| 6            | -40C            |                     | ↓ (A134)                                | Y                         | N                          |     |           |
| 7            | -41A            |                     | Wood Panel Glue (Hallway)               | Y                         | N                          |     |           |
| 8            | -41B            |                     | ↓                                       | Y                         | N                          |     |           |
| 9            | -41C            |                     | ↓                                       | Y                         | N                          |     |           |
| 10           | -42A            |                     | White Sink Undercoat (A136)             | Y                         | N                          |     |           |
| 11           | -42B            |                     | ↓ (A134)                                | Y                         | N                          |     |           |
| 12           | -42C            |                     | ↓ (A132)                                | Y                         | N                          |     |           |
| 13           | -43A            |                     | Countertop Glue (A136)                  | Y                         | N                          |     |           |
| 14           | -43B            |                     | ↓ (A134)                                | Y                         | N                          |     |           |
| 15           | -43C            |                     | ↓ (A132)                                | Y                         | N                          |     |           |

SPECIAL INSTRUCTIONS: \_\_\_\_\_  
 Sample Collector: (Print) Jason Stone (Signature) Jason Stone  
 Relinquished by: Jason Stone Date/Time: 1/10/19 Received by: Diana Federico Date/Time: 1/14/19  
 Relinquished by: Diana Federico Date/Time: 1/14/19 Received by: \_\_\_\_\_ Date/Time: 1/14/19  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

**CHAIN OF CUSTODY**  
 EMC Labs, Inc.  
 9830 S. 51<sup>st</sup> St., Ste B-109  
 Phoenix, AZ 85044  
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LAB#: \_\_\_\_\_  
 TAT: 213467  
 Rec'd: \_\_\_\_\_

COMPANY NAME: TRC SOLUTIONS  
 Address: 4105 SE International Way, Suite 505  
Milwaukie, Oregon 97222  
 CONTACT: Ron Landolt Scan & Excel  
 Phone/Fax: (503) 387-3251 / (503) 908-1318  
 Email: rlandolt@trcsolutions.com and mncuda@trcsolutions.com

BILL TO: \_\_\_\_\_ (If Different Location)  
 Phoenix, AZ \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**

1. **TURNAROUND TIME:** [Same Day Rush] [1-2 Days] [3-4-5 Days] [6-10 Days]

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2. **TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]  
 (If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

4. Project Name: Arts & Communication Magnet Academy  
 P.O. Number: \_\_\_\_\_ Project Number: 293358

| EMC SAMPLE # | CLIENT SAMPLE # | DATE & TIME SAMPLED | LOCATION/MATERIAL TYPE                   | Samples Accepted Yes / No | AIR SAMPLE INFO / COMMENTS |     |           |
|--------------|-----------------|---------------------|--|---------------------------|----------------------------|-----|-----------|
|              |                 |                     |  |                           | ON                         | OFF | FLOW RATE |
| 16           | ACMA-44A        |                     | Gypsum Board & Joint Compound (A132)     | N                         |                            |     |           |
| 17           | -44B            |                     | ↓  | (A104) N                  |                            |     |           |
| 18           | -44C            |                     | ↓  | (A104) N                  |                            |     |           |
| 19           | -45A            |                     | Univent Countertop & Glue (White) (A132) | N                         |                            |     |           |
| 20           | -45B            |                     | ↓  | (A130) Y N                |                            |     |           |
| 21           | -45C            |                     | ↓  | (A132) Y N                |                            |     |           |
| 22           | -46A            |                     | Corkboard & Glue (A140)                  | Y N                       |                            |     |           |
| 23           | -46B            |                     | ↓  | (A142) Y N                |                            |     |           |
| 24           | -46C            |                     | ↓  | (Hallway) Y N             |                            |     |           |
| 25           | -47A            |                     | Gray Sink Undercoat (A142)               | Y N                       |                            |     |           |
| 26           | -47B            |                     | ↓  | (A128) Y N                |                            |     |           |
| 27           | -47C            |                     | ↓  | (Library) Y N             |                            |     |           |
| 28           | -48A            |                     | 1'x1' Nailed-on Ceiling Tile (A128)      | Y N                       |                            |     |           |
| 29           | -48B            |                     | (Fissures) ↓                             | Y N                       |                            |     |           |
| 30           | -48C            |                     | ↓  | ↓ N                       |                            |     |           |

SPECIAL INSTRUCTIONS: \_\_\_\_\_  
 Sample Collector: (Print) Jason Stone (Signature) Jason Stone  
 Relinquished by: Jason Stone Date/Time: 1/10/19 Received by: Diana Federico Date/Time: 1/14/19  
 Relinquished by: Diana Federico Date/Time: 1/14/19 Received by: \_\_\_\_\_ Date/Time: 1/14/19  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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 Phoenix, AZ \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Now Accepting: VISA - MASTERCARD Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**

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2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. DISPOSAL INSTRUCTIONS: [Dispose of samples at EMC] / [Return samples to me at my expense]  
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4. Project Name: BSD - Arts & Communication Magnet Academy  
 P.O. Number: \_\_\_\_\_ Project Number: 293358

| EMC SAMPLE # | CLIENT SAMPLE # | DATE & TIME SAMPLED | LOCATION/MATERIAL TYPE                  | Samples Accepted Yes / No | AIR SAMPLE INFO / COMMENTS |     |           |
|--------------|-----------------|---------------------|---|---------------------------|----------------------------|-----|-----------|
|              |                 |                     |   |                           | ON                         | OFF | FLOW RATE |
| 31           | ACMA-49A        |                     | Brown/Black Floor Tile & Glue (Hallway) | Y                         | N                          |     |           |
| 32           | -49B            |                     | (w/circles) ↓                           | Y                         | N                          |     |           |
| 33           | -49C            |                     | ↓                                       | Y                         | N                          |     |           |
| 34           | -50A            |                     | Wall Plaster (A118)                     | Y                         | N                          |     |           |
| 35           | -50B            |                     | ↓                                       | Y                         | N                          |     |           |
| 36           | -50C            |                     | ↓ (Break Room)                          | Y                         | N                          |     |           |
| 37           | -51A            |                     | Gray Pebble Vinyl (Staff RR1)           | Y                         | N                          |     |           |
| 38           | -51B            |                     | Sheet Floor ↓                           | Y                         | N                          |     |           |
| 39           | -51C            |                     | ↓                                       | Y                         | N                          |     |           |
| 40           | -52A            |                     | Window Glazing                          | Y                         | N                          |     |           |
| 41           | -52B            |                     | ↓                                       | Y                         | N                          |     |           |
| 42           | -52C            |                     | ↓                                       | Y                         | N                          |     |           |
| 43           | -53A            |                     | Black Vapor Barrier (Roof Hatch)        | Y                         | N                          |     |           |
| 44           | -53B            |                     | ↓                                       | Y                         | N                          |     |           |
| 45           | -53C            |                     | ↓                                       | Y                         | N                          |     |           |

SPECIAL INSTRUCTIONS: \_\_\_\_\_  
 Sample Collector: (Print) Jason Stone (Signature) Jason Stone  
 Relinquished by: Jason Stone Date/Time: 1/10/19 Received by: Diana Federico Date/Time: 1/14/19  
 Relinquished by: Diana Federico Date/Time: 1/14/19 Received by: \_\_\_\_\_ Date/Time: 1/14/19  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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LAB#: \_\_\_\_\_  
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 Rec'd: \_\_\_\_\_

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 Email: rlandolt@trcsolutions.com and mowda@trcsolutions.com

BILL TO: \_\_\_\_\_ (If Different Location)  
 Phoenix, AZ \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Now Accepting: VISA - MASTERCARD Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers  
**COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**

1. TURNAROUND TIME: [Same Day Rush] [1-2 Days] [3-4-5 Days] [6-10 Days]

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2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. DISPOSAL INSTRUCTIONS: [Dispose of samples at EMC] / [Return samples to me at my expense]  
 (If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

4. Project Name: BSD - Arts & Communication Magnet Academy  
 P.O. Number: \_\_\_\_\_ Project Number: 293358

| EMC SAMPLE # | CLIENT SAMPLE # | DATE & TIME SAMPLED | LOCATION/MATERIAL TYPE                 | Samples Accepted Yes / No | AIR SAMPLE INFO / COMMENTS |     |           |
|--------------|-----------------|---------------------|--|---------------------------|----------------------------|-----|-----------|
|              |                 |                     |  |                           | ON                         | OFF | FLOW RATE |
| 46           | ACMA-54A        |                     | Roof Mastie (Library)                  | <u>Y</u> N                |                            |     |           |
| 47           | <del>-54B</del> |                     | ↓ ↓                                    | Y N                       |                            |     |           |
| 48           | -54C            |                     |  | Y N                       |                            |     |           |
| 49           | -55A            |                     | Silver Paint <sup>Roof</sup> (Library) | Y N                       |                            |     |           |
| 50           | -55B            |                     | ↓ (Front Entry)                        | Y N                       |                            |     |           |
| 51           | -55C            |                     | ↓ (A146)                               | Y N                       |                            |     |           |
| 52           | -56A            |                     | 3-Tab Roofing (Cafeteria)              | Y N                       |                            |     |           |
| 53           | -56B            |                     | ↓ ↓                                    | Y N                       |                            |     |           |
| 54           | -56C            |                     |  | Y N                       |                            |     |           |
| 55           | -57A            |                     | Wall Panel Glue (Lower Level RR)       | Y N                       |                            |     |           |
| 56           | -57B            |                     | ↓ ↓                                    | Y N                       |                            |     |           |
| 57           | -57C            |                     |  | Y N                       |                            |     |           |
| 58           | -58A            |                     | Built-up Roofing (A136)                | Y N                       |                            |     |           |
| 59           | -58B            |                     | ↓ (A130)                               | Y N                       |                            |     |           |
| 60           | -58C            |                     | ↓ (A146)                               | <u>Y</u> N                |                            |     |           |

SPECIAL INSTRUCTIONS: \_\_\_\_\_  
 Sample Collector: (Print) Jason Stone (Signature) Jason Stone  
 Relinquished by: Jason Stone Date/Time: 11/10/19 Received by: Diana Federico Date/Time: 11/14/19  
 Relinquished by: Diana Federico Date/Time: 11/14/19 Received by: [Signature] Date/Time: 11/14/19  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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LAB#: \_\_\_\_\_  
 TAT: \_\_\_\_\_ *213967*  
 Rec'd: \_\_\_\_\_

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BILL TO: \_\_\_\_\_ (If Different Location)  
 Phoenix, AZ \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

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2. **TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]  
 (If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

4. Project Name: BSD - Arts & Communication Magnet Academy  
 P.O. Number: \_\_\_\_\_ Project Number: 293358

| EMC SAMPLE # | CLIENT SAMPLE # | DATE & TIME SAMPLED | LOCATION/MATERIAL TYPE                      | Samples Accepted Yes / No | AIR SAMPLE INFO / COMMENTS |     |           |
|--------------|-----------------|---------------------|---|---------------------------|----------------------------|-----|-----------|
|              |                 |                     |   |                           | ON                         | OFF | FLOW RATE |
| 01           | ACMA - 59A      |                     | Built-up Roofing (A148)                     | N                         |                            |     |           |
| 02           | -59B            |                     | (A116)                                      | N                         |                            |     |           |
| 03           | -59C            |                     | (A156)                                      | Y                         | N                          |     |           |
| 04           | -60A            |                     | Built-up Roofing (A108)                     | Y                         | N                          |     |           |
| 05           | -60B            |                     | (Office)                                    | Y                         | N                          |     |           |
| 06           | -60C            |                     | (A102)                                      | Y                         | N                          |     |           |
| 07           | -61A            |                     | Built-up Roofing Library (E)                | Y                         | N                          |     |           |
| 08           | -61B            |                     | (N)   | Y                         | N                          |     |           |
| 09           | -61C            |                     | (W)   | Y                         | N                          |     |           |
| 10           | -62A            |                     | Built-up Roofing Breese Way Entry           | Y                         | N                          |     |           |
| 11           | -62B            |                     | (N)   | Y                         | N                          |     |           |
| 12           | -62C            |                     | Storage                                     | Y                         | N                          |     |           |
| 13           | -63A            |                     | <del>Roof</del> Built-up Roofing Boiler (E) | Y                         | N                          |     |           |
| 14           | -63B            |                     | (N)   | Y                         | N                          |     |           |
| 15           | -63C            |                     | (W)   | Y                         | N                          |     |           |

SPECIAL INSTRUCTIONS: \_\_\_\_\_  
 Sample Collector: (Print) Jason Stone (Signature) Jason Stone  
 Relinquished by: Jason Stone Date/Time: 11/10/19 Received by: Diana Federico Date/Time: 11/14/19  
 Relinquished by: Diana Federico Date/Time: 11/14/19 Received by: \_\_\_\_\_ Date/Time: 11/14/19  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

**CHAIN OF CUSTODY**  
 EMC Labs, Inc.  
 9830 S. 51<sup>st</sup> St., Ste B-109  
 Phoenix, AZ 85044  
 (480) 940-5294 Fax (480) 893-1726

LAB#: \_\_\_\_\_  
 TAT: \_\_\_\_\_  
 Rec'd: \_\_\_\_\_

213967

COMPANY NAME: TRC SOLUTIONS  
 Address: 4105 SE International Way, Suite 505  
Milwaukie, Oregon 97222  
 CONTACT: Ron Landolt Scan & Excel  
 Phone/Fax: (503) 387-3251 / (503) 908-1318  
 Email: rlandolt@trcsolutions.com and rlanda@trcsolutions.com

BILL TO: \_\_\_\_\_ (If Different Location)  
 Phoenix, AZ \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**

1. **TURNAROUND TIME:** [Same Day Rush] [1-2 Days] [3-4-5 Days] [6-10 Days]

\*\*\*\*Prior confirmation of turnaround time is required  
 \*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)  
 \*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]  
 (If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

4. Project Name: BSD - Arts & Communication Magnet Academy  
 P.O. Number: \_\_\_\_\_ Project Number: 293358

| EMC SAMPLE # | CLIENT SAMPLE # | DATE & TIME SAMPLED | LOCATION/MATERIAL TYPE                     | Samples Accepted Yes / No | AIR SAMPLE INFO / COMMENTS |     |           |
|--------------|-----------------|---------------------|--|---------------------------|----------------------------|-----|-----------|
|              |                 |                     |  |                           | ON                         | OFF | FLOW RATE |
| 76           | ACMA-64A        | 1/10/19             | Built-up Roofing Broeze Way                | Y N                       |                            |     |           |
| 77           | -64B            |                     |  | Y N                       |                            |     |           |
| 78           | -64C            |                     |  | Y N                       |                            |     |           |
| 79           | -65A            |                     | <del>Roof</del> Built-up Roofing Storage 9 | Y N                       |                            |     |           |
| 80           | -65B            |                     | Storage 9/10                               | Y N                       |                            |     |           |
| 81           | -65C            |                     | Storage 10                                 | Y N                       |                            |     |           |
|              |                 |                     |  | Y N                       |                            |     |           |
|              |                 |                     |  | Y N                       |                            |     |           |
|              |                 |                     |  | Y N                       |                            |     |           |
|              |                 |                     |  | Y N                       |                            |     |           |
|              |                 |                     |  | Y N                       |                            |     |           |
|              |                 |                     |  | Y N                       |                            |     |           |
|              |                 |                     |  | Y N                       |                            |     |           |
|              |                 |                     |  | Y N                       |                            |     |           |

SPECIAL INSTRUCTIONS: \_\_\_\_\_  
 Sample Collector: (Print) Jason Stone (Signature) Jason Stone  
 Relinquished by: Jason Stone Date/Time: 1/10/19 Received by: Diana Federico Date/Time: 1/14/19  
 Relinquished by: Diana Federico Date/Time: 1/14/19 Received by: \_\_\_\_\_ Date/Time: 1/14/19  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

## **Appendix C – Inspector Certification(s)**

## **Appendix D – Prior Reports & Documentation**

# Certificate of Completion

This is to certify that

**Jason Stone**

has satisfactorily completed  
4 hours of refresher training as an  
**AHERA Building Inspector**

to comply with the training requirements of  
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

170699

Certificate Number



Dec 12, 2018 Expires in 1 year.

Date(s) of Training

Exam Score (if applicable):

A handwritten signature in black ink, appearing to be "M. Stone", written over a horizontal line.

Instructor

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

JASON CHRISTOPHER STONE  
650 SE 154TH AVE  
PORTLAND OR 97233

CONSTRUCTION CONTRACTORS BOARD  
LEAD BASED PAINT RISK ASSESSOR LICENSE  
LICENSE NO.: 9151698-RA  
EXPIRATION DATE: 10/4/2019

This document certifies that

JASON CHRISTOPHER STONE  
650 SE 154TH AVE  
PORTLAND OR 97233

is licensed in accordance with Oregon Law as a  
Lead Based Paint Risk Assessor

**STATE OF OREGON**  
**CONSTRUCTION CONTRACTORS BOARD**  
**LEAD BASED PAINT RISK ASSESSOR LICENSE**

LICENSE NUMBER: 9151698-RA

This document certifies that

JASON CHRISTOPHER STONE  
650 SE 154TH AVE  
PORTLAND OR 97233

is licensed in accordance with Oregon Law as a Lead Based Paint Risk Assessor

**License Details:**

LICENSE NO.: 9151698-RA  
EXPIRATION DATE: 10/4/2019

THIS IS TO CERTIFY THAT

**ED GAY**

**HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE**  
for

**ASBESTOS INSPECTOR / MANAGEMENT  
PLANNER REFRESHER**

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 04/06/2017

Course Location: Portland, OR

Certificate: IMR-17-0060A



AHERA is the Asbestos Hazard  
Emergency Response Act enacting Title II  
of Toxic Substance Control Act (TSCA)

Expiration Date: 04/06/2018

For verification of the authenticity of this  
certificate contact:  
PBS Environmental  
4412 SW Corbett Avenue  
Portland, OR 97239  
(503) 248-1939

*Gregory M. Baker*

Greg Baker, Instructor