

AHERA DESIGNATED PERSON
for
LIGHT OF THE WORLD ACADEMY

Light of the World Academy has appointed an AHERA designated person who has been trained and will ensure that the Light of the World Academy will comply with all aspects of the AHERA regulation. The following information is required of the AHERA designated person.

Section 763.84 (b) of the AHERA Regulation outlines specific responsibilities that are required of the AHERA designated person. The designated person is a person chosen by the LEA to "ensure that requirements under this section (763.84 - "General local education agency responsibilities") are properly implemented." The requirements include:

- *"Ensure that the activities of any persons who perform inspections, reinspections, and periodic surveillance, develop and update management plans, and develop and implement response actions, including operations and maintenance, are carried out in accordance with Subpart E of this part."*
- *"Ensure that all custodial and maintenance employees are properly trained as required by this Subpart E and other applicable Federal and/or State regulations."*
- *"Ensure that workers and building occupants, or their legal guardians, are informed at least once a school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress."*
- *"Ensure that short-term workers (e.g. telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding the locations of ACBM and suspected ACBM assumed to be ACM."*
- *"Ensure that warning labels are posted in accordance with Section 763.95"*
- *"Ensure that management plans are available for inspection and notification of such availability has been provided as specified under Section 763.93(g)."*

As the Designated Person, Light of the World Academy's Designated Person will insure that each of the responsibilities listed above are properly satisfied. Each of the responsibilities will be addressed as follows:

- *"Ensure that the activities of any persons who perform inspections, reinspections, and periodic surveillance, develop and update management plans, and develop and implement response actions, including operations and maintenance, are carried out in accordance with Subpart E of this part."*

Light of the World Academy will perform, or contract with an independent environmental consultant to perform all required building inspections, reinspections and periodic surveillances. Light of the World Academy will ensure that continuous updates are made to the AHERA Management Plans and will ensure that all response actions are properly developed and implemented by trained and qualified persons (as required by AHERA).

- *"Ensure that all custodial and maintenance employees are properly trained as required by this Subpart E and other applicable Federal and/or State regulations."*

Light of the World Academy will provide all required training, in accordance with Section 763.92 (a), to Light of the World Academy's Maintenance and Custodial Staffs.

- *"Ensure that workers and building occupants, or their legal guardians, are informed at least once a school year about inspections, response actions, and post-response action activities, including periodic*

re-inspection and surveillance activities that are planned or in progress. "

The designated person will provide the Light of the World Academy with a yearly notification to update each of the building workers and occupants, or their legal guardians, about inspections, response actions, re-inspections and/or periodic surveillances that have been completed or are planned. The yearly notification will be printed in the school newsletter each school year.

"Ensure that short-term workers (e.g. telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding the locations of ACBM and suspected ACBM assumed to be ACM"

The designated person will ensure that all building AHERA Management Plans are kept up-to-date. The designated person will also ensure that information pertaining the availability of management plans and known asbestos to all contractors working the school. This will be accomplished through specification notices and contractor sign-in sheets within the facility.

"Ensure that warning labels are posted in accordance with Section 763.95."

Light of the World Academy has posted warning labels in accordance with Section 763.95. These warning labels are monitored during each 6-Month Periodic Surveillance and new labels are applied where necessary.

"Ensure that management plans are available for inspection and notification of such availability has been provided as specified under Section 763. 93 (g). "

The designated person will meet with the building principal, and the office staff, to discuss the proper availability of the AHERA Management Plan. At a minimum, documentation required to be placed in the School Copy of the AHERA Management Plan will be updated every six months during the Six-Month Periodic Surveillance.

The Designated Person, Rick Kramer, hereby certifies that the general, local educational responsibilities, as stipulated by 763.84 have been met or will be met.

Rick Kramer
Designated Person

4-7-16
Date

Light of the World Academy
550 East Hamburg Street
Pinckney, Michigan 48169
Phone: (734) 878-3301
Mobile: (248) 867-8953

E-Mail: r.kramer@globalpsychology.net

**ANNUAL NOTIFICATION
for
LIGHT OF THE WORLD ACADEMY**

Light of the World Academy conducts yearly notifications in accordance with the AHERA regulation. This Annual Notification is made to *"Ensure that workers and building occupants, or their legal guardians, are informed at least once a school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress."* Light of the World Academy uses one or more of the following methods to make proper AHERA notifications:

(Workers) Teachers, Administrators, Custodial, Maintenance & Support Staff

All staff and District employees that enter this school building are provided a written notification detailing AHERA required information as outlined above. These may be in the form of "postings" located in the Main Office, Custodial/Maintenance Office and Faculty Lounge.

(Occupants or their Legal Guardians) Students, Parents or Legal Guardians

The same written notification that is provided to the *"workers"* is often printed in the School's Newsletter detailing AHERA required information as outlined above.

Newsletters and/or Postings are kept in this section:



We know that our parents and staff are concerned about safety in our school.

In an effort to ensure a safe environment at LOTWA we recently initiated an Asbestos Environmental Study.

Virtually all school and commercial buildings constructed prior to 1976 contain some asbestos material.

The original LOTWA school building was constructed in 1952 and does contain material with asbestos content. Our study has revealed asbestos in door and window caulk and boiler pipe insulation located in our maintenance areas. We are currently maintaining these materials in a safe condition for all by our ongoing surveillance, re-inspection, and operations & maintenance program.

In accordance with Michigan and federal law, we have created and will maintain an Asbestos Management Plan which is available for your review in the school office. You are welcome to review this plans during regular school hours. If you have any questions about our asbestos program, please call Rick Kramer, Asbestos Designated Person at 248-867-8953

AHERA-Required Annual Notifications Recordkeeping Form

Date Sent	Statement Used	Distribution Method	Designated Person Name and Signature	Major Projects Included

AWARENESS TRAINING INFORMATION
for
LIGHT OF THE WORLD ACADEMY

Light of the World Academy has provided all custodial and maintenance personnel with appropriate asbestos awareness training as stipulated by the AHERA regulation:

"The local education agency shall ensure, prior to the implementation of the O&M provisions of the management plan, that all members of its maintenance and custodial staff (custodians, electricians, heating/air conditioning engineers, plumbers, etc.) who may work in a building that contains ACBM receive awareness training of at least 2 hours, whether or not they are required to work with ACBM. New custodial and maintenance employees shall be trained within 60 days after commencement of employment. Training shall include, but not be limited to:

1. *Information regarding asbestos and its various uses and forms.*
2. *Information on the health effects associated with asbestos exposure.*
3. *Locations of ACBM identified throughout each school building in which they work.*
4. *Recognition of damage, deterioration, and delamination of ACBM.*
5. *Name and telephone number of the person designated to carry out general local education agency responsibilities under 763.84 and the availability and location of the management plan.*

The local education agency shall ensure that all members of its maintenance and custodial staff who conduct any activities that will result in the disturbance of ACBM shall receive training described in paragraph (a)(1) of this section and 14 hours of additional training."

In addition to the requirements of the AHERA regulation, the Occupational Safety & Health Administration's (OSHA) Asbestos Standard for the Construction Industry requires that custodial and maintenance workers receive similar asbestos training annually [29 CFR 1926.1101(k)(9)].

Light of the World Academy will conduct Asbestos Awareness Training on a yearly basis and as needed upon hiring of new custodial and maintenance personnel.

Employee Training Records

[illegible]

Employee Training Records

[illegible]

Asbestos Awareness Training Program Agenda and Video Resources

Introduction

15 minutes

- ≡ Explanation of the Asbestos Containing Materials in Schools Rule
- ≡ Description of hand-out materials
- ≡ Description of two-hour awareness program

Video Presentation

30 minutes

- ≡ Information regarding asbestos and its various uses and forms
- ≡ Information on health effects associated with asbestos exposure
- ≡ Recognition of damage, deterioration and delamination of asbestos-containing materials

Questions and Answers about the Video

10 minutes

Break 15 minutes

Walk-Through of the Facility

20 minutes

- ≡ Locations of asbestos containing building materials throughout each building
- ≡ Discussion at each location:
 - type of material
 - use
 - how to avoid exposure
 - where to report damage

Review of the Asbestos Management Plan and Control Program

15 minutes

- ≡ Explanation of what is in a management plan
- ≡ Availability and location of the facility management plan
- ≡ Discussion of the control measures outlined in the facility plan

Questions and Answers

15 minutes

- ≡ Quiz for review
- ≡ Collection of training documentation forms

Mead Environmental Associates

1 N Spanish St.
Cape Girardeau, MO 63701
Phone Number: (573) 651-3329

Summit Training Source

Title: *Understanding the Asbestos Hazards*
Length of Time: 19.4 minutes
Phone Number: (616)261-2457

OSHA/ EPA 2-hour Awareness Training Refresher Training Agenda

A. Procedure:

1. Obtain and maintain a list of persons who have received the initial training
2. Schedule a 10 minute review **twice** a year for these employees.*
3. At each session, be sure to record the following:
 - Name of all trainees (sign-in sheet and printed list)
 - Name and signature of person(s) performing training
 - Training agenda (see above)
 - Date, time (start and end), and location of training

B. Agenda: Review the following:

- Health hazards of asbestos.
- Locations of asbestos-containing building materials in school property.
(Hint: Get digital photos and put together a slide show and laminated sets of photos for each building.)
- Types of damage that could occur to each asbestos-containing building material in these buildings.
- Reporting procedures for ensuring that damage is quickly dealt with.
- Location of management plans
- Name and contact information for Designated Person.

* OSHA has never stated how long the refresher training should last. However, by analogy to the 2-hr requirement for 16 hour workers, a 15-minute period would seem to be adequate ($15\text{min} / 2\text{hr} = 120\text{min} / 16\text{hr}$). However, since some workers will miss one or the other training, this should ensure adequate contact and reminder time to meet OSHA requirements.

Danger Asbestos

Cancer and Lung Disease Hazard

Authorized Personnel Only

The following materials in this room may be asbestos- containing:

**Do Not Disturb These Materials
Without Proper Training and Authorization**

Contains Asbestos Fibers
Avoid Creating or Breathing Dust

For Further Information Call Extension 425.

Sample Training Record Form

OSHA / EPA Asbestos Awareness Training Refresher

Trainer Name (print or type) _____

Date: _____ Location: _____

Start Time _____ End Time _____

Trainees

Printed Name

Signature

_____	_____
_____	_____
_____	_____
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_____	_____
_____	_____
_____	_____

I hereby certify that I presented and these people received the asbestos awareness training refresher described above and on the attached agenda.

Trainer (Signature) _____

ASBESTOS INSPECTION REPORT
for
LIGHT OF THE WORLD ACADEMY

All work associated with this inspection was conducted by a State of Michigan accredited asbestos inspectors. This report identifies all known and assumed asbestos-containing building materials, including their quantities and locations. Additionally, this report identifies all non-asbestos-containing building materials, including their quantities and locations. Data bases for all materials by location and by material type are found within the asbestos inspection report.

**6-MONTH PERIODIC SURVEILLANCE
and 3-YEAR REINSPECTION REPORTS
for
LIGHT OF THE WORLD ACADEMY**

In accordance with the AHERA regulation, Light of the World Academy conducts Periodic Surveillance inspections every six months and Reinspections every three years. The following stipulated items are conducted:

"At least once every 6 months after a management plan is in effect, each local education agency shall conduct periodic surveillance in each building that it leases, owns, or otherwise uses as a school building that contains ACBM or is assumed to contain ACBM. Each person performing periodic surveillance shall:

- *Visually inspect all areas of that are identified in the management plan as ACBM or assumed ACBM.*
- *Record the date of the surveillance, his or her name, and any changes in the condition of the materials.*
- *Submit to the person designated to carry out general local education agency, responsibilities under 763.84 a copy of such record for inclusion in the management plan.*

At least once every 3 years after a management plan is in effect, each local education agency shall conduct a reinspection of all friable and nonfriable known or assumed ACBM in each school building that they lease, own, or otherwise use a school building. Each inspection shall be made by an accredited inspector and for each reinspection shall:

- *Visually reinspect, and reassess, under 763.88, the condition of all friable known or assumed ACBM.*
- *Visually reinspect material that was previously considered nonfriable ACBM and touch the material to determine whether it has become friable since the last inspection or reinspection.*
- *Identify any homogeneous areas with material that has become friable since the last inspection or reinspection.*
- *For each homogeneous area of newly friable material that is already assumed to be ACBM, bulk samples may be collected and submitted for analysis in accordance with 763.86 and 763.87.*
- *Assess, under 763.88, the condition of the newly friable material in areas where samples are collected and newly friable materials in areas that are assumed to be ACBM.*
- *Reassess, under 763.88, the condition of friable known or assumed ACBM previously identified.*
- *Record the following and submit to the person designated under 763.84 a copy of such record for inclusion in the management plan within 30 days of the reinspection.*
 - *The date of the reinspection, the name and person making the reinspection, State of accreditation, and if applicable, his or her accreditation number, and any changes in the condition of known or assumed ACBM.*
 - *The exact locations where samples are collected during the reinspection, a description of the manner used to determine sampling locations, the name and signature of each accredited inspector who collected the samples, State of accreditation, and, if applicable, his or her accreditation number.*
 - *Any assessments or reassessments made of friable material, the name and signature of the accredited inspector making the assessments, State of accreditation, and if applicable, his or her accreditation number."*



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healthAIR - Industrial Hygiene Services
cleanWATER - Consulting & Testing Services
safeEARTH - Hazardous Waste & Recycling Services

March 17, 2016

Mr. James E. Reese
Principal
Light of the World Academy
550 East Hamburg Street
Pinckney, Michigan 48169

RE: **AHERA Three Year Reinspection Report**
Light of the World Academy

Dear Mr. Reese:

Arch Environmental Group, Inc. (AEG) has completed the AHERA Three Year Reinspection activities for Light of the World Academy. All activities were conducted in accordance with 40 CFR 763.85(b) "Reinspections". To complete the reinspection process, please review the reinspection report and each of the Response Action Recommendations made by the Management Planner and sign the reinspection report as the LEA's Designated Person.

All of the recommendations other than "O&M" (Operations and Maintenance) are outlined below. Special O&M recommendations, if necessary, for Light of the World Academy are made at the end of this cover letter.

Recommendations for Removal

The accredited inspector identified damaged homogeneous areas in the functional spaces listed below that are recommended for removal by the accredited management planner:

- NONE

Recommendations for Repair

The accredited inspector identified damaged homogeneous areas in the functional spaces listed below that are recommended for repair by the accredited management planner:

- North Boiler Room: Packed Pipe Insulation on Fiberglass Lines - Patch and Repair of Packed Pipe Insulation throughout North Boiler Room.
- North Boiler Room: Straight Pipe Insulation, Millboard Lines - Patch and Repair of Straight Pipe Insulation throughout North Boiler Room.

Special Considerations for Identified Materials

No special considerations were noted by the accredited Asbestos Inspector or the accredited Asbestos Management Planner for this facility. Light of the World Academy should continue to maintain all asbestos-containing materials at Light of the World Academy under the on-going "Operations & Maintenance" Program.

A copy of this report must be placed in the AHERA Management Plan for Light of the World Academy. This activity will be completed by AEG during the next scheduled AHERA activities for Light of the World Academy. If you have any questions regarding our findings, please feel free to contact me at (248) 426-0165.

Sincerely,

DETROIT
(248) 426-0165
Farmington Hills, MI

GRAND RAPIDS
(616) 930-4116
Cedar Springs, MI

CHICAGO
(847) 462-9687
Cary, IL

AHERA Three Year Reinspection Report
Light of the World Academy
Light of the World Academy
Page 2

Arch Environmental Group, Inc.
Environmental Services




Gary Bosh
Consultant, healthAIR

Attachments: AHERA Three Year Reinspection Report


Attachment
AHERA Three Year Reinspection Report

LIGHT OF THE WORLD ACADEMY
550 East Hamburg Street
Pinckney, MI 48169

[illegible]

Inspection Information	
Date of Reinspection:	February 6, 2016
Name of Accredited Inspector:	Gary Sosh
Accreditation Number:	A33379
Accreditation Expiration Date:	March 1, 2017
State of Accreditation:	Michigan
 Gary Sosh, Accredited Asbestos Inspector	

Note: All assignments were made by the inspector conducting the reinspection.

Management Plan Information	
Date of Response Action Develop:	March 18, 2016
Name of Accredited MPE:	Philip Grasse
Accreditation Number:	A15487
Accreditation Expiration Date:	April 17, 2016
State of Accreditation:	Michigan
 Philip Grasse, Accredited Management Planner	

Designated Person Information	
Date of Acceptance by LEA:	
Name of Designated Person:	
Address of Designated Person:	
Note: The LEA has accepted the management plan's recommendations except where noted and included on the preceding pages.	

KEY TO ASSESSMENTS	Assessment
Abbreviation	
D/SD TSI	Damage or significantly damaged thermal system insulation ACM
D Friable Surfacing	Damage friable surfacing ACM
SD Friable Surfacing	Significantly damaged friable surfacing ACM
D/SD Friable MISC	Damage or significantly damaged friable miscellaneous ACM
ACBM w/PO	ACBM with potential for damage
ACBM w/PSD	ACBM with potential for significant damage
N/A - Non-Friable	No assessment is necessary for non-friable materials
N/A - Removed	No assessment is necessary for abated materials

SAMPLING INFORMATION	
Were samples collected during the reinspection?	
<input type="checkbox"/> Yes - Bulk sampling information has been added to the management plan <input type="checkbox"/> No	

Attachment
Inspector and Management Planner Credentials



Arch Environmental Group
 11687 - Consulting & Training Services
 11688 - Asbestos Management & Remediation Services

Philip E. Grosse

Accredited Asbestos Inspector & Management Planner
 State: Michigan
 Accreditation Number: A16487
 Accreditation Expiration Date: June 15, 2016 (*Inspector & Management Planner*)
 Training Provider: Arch Environmental Group (*Inspector & Management Planner*)
 Training Expiration Date: April 17, 2016 (*Inspector & Management Planner*)

Signature:

Philip E. Grosse



Asbestos Inspector

Philip E. Grosse
 51168 Sleepy Hollow Lane
 Canton, MI 48188

Accreditation Number
 A16487

Expiration Date
 06/15/2016



DOB: 01/28/1964

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 442 of 1992, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if altered 116954



Asbestos Management Planner

Philip E. Grosse
 51168 Sleepy Hollow Lane
 Canton, MI 48188

Accreditation Number
 A16487

Expiration Date
 06/15/2016



DOB: 01/28/1964

This individual has satisfactorily met or exceeded the requirements of Section 209 of the Toxic Substances Control Act to be accredited in the above discipline.

Accreditation card is not valid if altered 116955

DETROIT
 (248) 428-0165
 Farmington Hills, MI

CHICAGO
 (847) 462-9687
 Cary, IL

CADILLAC
 (231) 878-1802
 Cadillac, MI

LANSING
 (517) 879-0040
 Lansing, MI



environmental group

www.archenvgroup.com
healthAIR - Industrial Hygiene Services
cleanWATER - Consulting & Testing Services
safeEARTH - Hazardous Waste & Recycling Services

Gary Bosh

Accredited Asbestos Inspector

State: Michigan
Accreditation Number: A33379
Accreditation Expiration Date: March 1, 2017
Training Provider: Arch Environmental group
Training Expiration Date: September 22, 2017

Signature: _____



Asbestos Inspector

Gary Bosh
c/o Nova Environmental, Inc.
5300 Plymouth Road
Ann Arbor, MI 48105

Accreditation Number
A33379

Expiration Date
03/01/2017



DOB: 03/26/1972

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if altered.

119881

DETROIT
(248) 426-0165
Farmington Hills, MI

GRAND RAPIDS
(616) 916-4058
Kent City, MI

CADILLAC
(231) 577-1601
Cadillac, MI

CHICAGO
(847) 462-9687
Cary, IL

RESPONSE ACTION AHERA RECORD KEEPING
for
LIGHT OF THE WORLD ACADEMY

All asbestos abatement projects (including small-scale, short duration projects) conducted in Light of the World Academy are contracted to State of Michigan licensed asbestos abatement contractors. Each project conducted by a licensed asbestos abatement contractor the final report is located in this section.

The following AHERA information can be found within these reports or report summaries:

- Type of Activity
- Response Action Information
 - Project Summary
 - Type of Removal
 - Reason for Selecting Response Action
 - Project Schedule
 - Project Designer Information
- Contractor Information
 - Company Information
 - Personnel/Worker Information
 - Disposal Information
- Clearance/Visual Information
 - Company Information
 - Legal Clearance Requirements
 - Method of Analysis
 - Sample Locations/Results
 - Collector/Analyst Information
 - Signatures

***BULK SAMPLING and OTHER REPORTS
for
LIGHT OF THE WORLD ACADEMY***

All samples results and related laboratory documentation regarding these results will be maintained in this section of the management plan.

REMAINING ASBESTOS-CONTAINING MATERIALS
for
LIGHT OF THE WORLD ACADEMY

The following floor data base provides current information specific to remaining asbestos-containing building materials within this school facility. The following information is available to all readers of this management plan, including building occupants, staff and the general public:

The information on this data base is currently being reformatted to include the following information:

Functional Space - Room ID/Number

Material Description - Such as 12"x12" Floor Tile, Grey with Black & White Streaks

Category - EPA classifications for Surfacing Material, Thermal System Insulation (TSI) or Miscellaneous Material

Friable - Whether the material "*can be crushed or pulverized by hand pressure when dry*"

Quantity - Amount of material within each Functional Space

Note - Any comments made by a Michigan Accredited Asbestos Inspector

SHORT-TERM WORKER NOTIFICATION
for
LIGHT OF THE WORLD ACADEMY

In accordance with part 763.84 of the AHERA regulation, Light of the World Academy "must ensure that short-term workers (e.g., telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding the locations of ACBM and suspected ACBM assumed to be ACM."

All contracted workers in Light of the World Academy ARE required to sign-in in the main office of the school building. Upon sign-in, they are provided with the AHERA Management Plan and are required to sign the following "Short Term Worker/Contractor Acknowledgment" page prior to conducting any work. Additionally, Light of the World Academy places an asbestos statement in general bidding documents requiring all contracted to review the Asbestos Management Plan at the facility prior to commencing with work activities.

SHORT-TERM/CONTRACTED WORKER NOTIFICATION FORM

In accordance with the Asbestos Hazard Emergency Response Act (AHERA, 40 CFR, Part 763), all short-term workers contracted by the Light of the World Academy must review the asbestos inspection/management plan PRIOR to conducting any work within this school building.

PLEASE REVIEW THE MANAGEMENT PLAN AND ASSOCIATED LISTING OF ASBESTOS-CONTAINING MATERIALS REMAINING IN THIS SCHOOL BUILDING IN THE TABBED SECTION OF THIS BINDER LABELED "REMAINING ASBESTOS MATERIALS" IF YOUR WORK IMPEDES ON ASBESTOS-MATERIALS IN ANY WAY YOU ARE REQUIRED TO CONTACT THE DISTRICT'S DESIGNATED PERSON PRIOR TO CONDUCTING ANY WORK.

Short-Term Worker/Contractor Acknowledgement

Short-Term Worker/Contractor Acknowledgement
By signing below, you have acknowledged the presence and location of asbestos-containing materials in this school building. You further acknowledge that your work orders will not impact any of these asbestos-containing materials;

Signature _____, Company _____, Date ____/____/____

Signature _____, Company _____, Date ____/____/____

Signature _____ Company _____ Date ____/____/____

Signature _____, Company _____, Date ____/____/____

Signature _____, Company _____, Date ____/____/____

Signature _____, Company _____, Date ____/____/____

Signature _____, Company _____, Date ____/____/____

Signature _____ Company _____ Date ____/____/____

Signature _____ Company _____ Date ____/____/____

Signature _____, Company _____, Date ____/____/____

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NON-ASBESTOS ATTESTATION
for
LIGHT OF THE WORLD ACADEMY

In accordance with U.S. EPA Region 5 AHERA Exclusionary Statement Guidance memorandum, the following must be conducted in order to deem a building "asbestos free";

For new school buildings constructed after October 12, 1988, the procedures and requirements of 40 CFR 763.99(a)(7) apply. Only a qualified person may sign the exclusionary statement (i.e., either a licensed architect or registered professional engineer who was personally responsible for the construction of the building, or an accredited asbestos inspector properly licensed by the State). The signed and dated document must include a statement that "no ACBM was specified as a building material in any construction document for the building, or, to the best of his or her knowledge, no ACBM was used as a building material in the building"

For abatement or renovations that otherwise render a building asbestos-free, the procedures and requirements of 40 CFR 763.99(a)(3) apply. Only an accredited asbestos inspector properly licensed by the State may sign the exclusionary statement. The signed and dated document must include the inspector's State of accreditation and, if applicable, license number, and declare that "the homogenous or sampling area determined not to be ACBM was sampled in substantial compliance with 40 CFR 763.85(a)." This refers to the fact that, based on sampling records and inspection records, the accredited/licensed asbestos inspector has determined that no ACBM is present in the homogenous or sampling area and the records show that the area was sampled, before December 14, 1987, in substantial compliance with 40 CFR 763.85(a). This statement should be promptly submitted by the inspector to the LEA, for the LEA must then complete two subsequent actions within 30 days of the inspector's determination: (a) submit a copy of this signed and dated statement to the U.S. EPA, and (b) place the original of the signed and dated document into the AMP.

Light of the World Academy will place ALL exclusionary statements provided by architects, engineers or accredited asbestos inspectors into this section following renovations, building additions or asbestos inspections (where needed). Any EPA response regarding these exclusionary statements will also be included in this section of the Management Plan binder.

***ORIGINAL ASBESTOS INSPECTIONS &
MANAGEMENT PLAN DOCUMENTATION
for
LIGHT OF THE WORLD ACADEMY***

The original AHERA asbestos building inspections and Management Plan preparation for Light of the World Academy were conducted by a contracted consulting firm (Arch Environmental Group, Inc.) in 2016. This section of the Management Plan contains copies of the pre-AHERA inspection, the original AHERA inspection, and the original AHERA Management Plan documentation.



NESHAPs ASBESTOS INSPECTION REPORT

Light of the World Academy

550 E. Hamburg St.
Pinckney, MI 48169

Prepared For:

Light of the World Academy
550 E. Hamburg St.
Pinckney, MI 48169

Prepared By:

Arch Environmental Group, Inc.
37720 Interchange Drive
Farmington Hills, Michigan 48335

Project #: AE150838
Project Date(s): February 6, 2016
Report Date: February 19, 2016

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1.0 / Project Summary

Arch Environmental Group, Inc. (AEG) completed a NESHAPs Asbestos Inspection to evaluate the Light of the World Academy located at 550 E. Hamburg St., Pinckney, MI for Light of the World Academy to identify asbestos-containing materials which may be present and impacted by the proposed building demolition activities. The inspection included the entire interior and exterior of the building to identify specific locations and quantities of asbestos-containing materials.

2.0 / Asbestos Inspection

AEG's Accredited Asbestos Inspector completed a comprehensive asbestos inspection which examined each material in each functional space in the building. The field inspection also included a review of the building for all suspect materials (to ensure that all asbestos-containing materials have been properly identified).

All inspection work was completed by Mr. Gary C. Bosh, an experienced inspector properly trained and accredited through the State of Michigan's Department of Licensing and Regulatory Affairs. Copies of all current accreditation and training documents are located in Appendix E. All material analysis ("bulk sample analysis") was conducted by an independent third party laboratory - APEX Research, Inc., Whitmore Lake, Michigan. APEX is an accredited laboratory through the EPA's NVLAP program.

2.1 / Materials Proven To Be Asbestos

The inspection identified the following known and assumed asbestos-containing materials:

Surfacing Materials

None

Thermal System Insulation

Packed Pipe Insulation on Fiberglass Lines	22 #
Straight Pipe Insulation, Millboard Lines	95 lf

Miscellaneous Materials

Door Caulk, Interior Door, White	400 lf
Window Caulk, Exterior Windows, Exterior Side, Gray	950 lf
Window Caulk, Exterior Windows, Interior Side, Gray	1,025 lf

2.2 / Materials Proven To Be Non-Asbestos

All other materials identified during the asbestos inspection activities were sampled and determined to be non-asbestos-containing. This includes:

- Acoustical Ceiling Tile, 12"x12" Dots and Deep Gouges
- Acoustical Ceiling Tile, 12"x12" Uniform Holes
- Adhesive (Gluepod) Remnants
- Adhesive (Gluepod) for Acoustical Ceiling Tile, 12"x12" Dots and Deep Gouges
- Adhesive (Gluepod) for Acoustical Ceiling Tile, 12"x12" Uniform Holes
- Adhesive (Gluepod) for Chalkboard
- Adhesive for Corner Covebase, 6", Black
- Adhesive for Covebase, 2", Black
- Adhesive for Covebase, 4", Blue

- Corner Covebase, 6", Black
- Covebase, 2", Black
- Drywall
- Drywall Mud
- Adhesive (Gluepod) for Chalkboard
- Drywall Tape
- Floor Tile Mastic, 12"x12", Cream Mottled
- Floor Tile Mastic, 12"x12", Gray Mottled
- Floor Tile Mastic, 12"x12", White w/ Gray Streaks
- Floor Tile, 12"x12", Cream Mottled
- Floor Tile, 12"x12", Gray Mottled
- Floor Tile, 12"x12", White w/ Gray Streaks
- Gym Wood Flooring, Tarpaper w/ Mastic
- Hard Plaster, Ceiling, Smooth Finish, Brown coat
- Hard Plaster, Ceiling, Smooth Finish, Finish coat
- Lab Table Top - Black
- Lay-in Ceiling Tile, 2'x4', Deep Gouges
- Lay-in Ceiling Tile, 2'x4', Textured Pin Holes
- Lay-in Ceiling Tile, 2'x2', Textured White
- Plasterboard Deck
- Unknown Mastic, Black
- Window Glaze, Exterior Windows, Exterior Side

3.0 / Exclusions and Exceptions

3.1 / Inaccessible Materials

AEG did not conduct destructive investigation activities. It is likely that there may be additional asbestos pipe insulation materials in various inaccessible locations, such as inside wall cavities, inside wall construction materials (between cinder block or brick, especially around water sources) and above inaccessible ceilings (such as drywall and hard plaster).

AEG was unable to inspect the interior of any mechanical equipment and boilers. There may be suspect asbestos-containing materials inside of older mechanical equipment, such as fire bricks, mortar, and door lining materials. These materials should be sampled once the mechanical equipment is shut off and opened.

3.2 / Inaccessible Locations

AEG's Accredited Asbestos Inspector indicated that all known functional spaces in the building were accessible for review, except for:

- Plenums Above Hard Ceilings – Access to these spaces was limited. Additional quantities of asbestos-containing pipe insulation materials are expected to be present beyond those identified in this report. It is also possible that there may be suspect asbestos-containing materials present beyond those identified in this report.

4.0 / Sampling Strategies

AEG sampled all materials in accordance with AHERA (763.86 "Sampling"). For each similar material found throughout the facility, AEG collected at least two (2) samples of the material to determine if the material contained asbestos.

4.1 / Sampling Exceptions

Pursuant to the exceptions provided under the EPA's NESHAPs, roofing materials were not included as part of this inspections. All roofing materials are assumed to be asbestos-containing and must be handled accordingly during any renovation or demolition activities.

There were no other unusual sampling exceptions made during this investigation. AEG did not sample wood paneling, wood ceilings, rolled fiberglass insulation, yellow fiberglass pipe insulation, and yellow fiberglass ceiling panels, glass, brick, cinder block or concrete. These building materials are specifically excluded by the EPA in building inspections through the AHERA regulation or the EPA's "100 Commonly Asked Questions about the AHERA Regulation."

5.0 / Regulations and Standards Used for Inspection

The inspection was conducted in accordance with the United States Environmental Protection Agency's (EPA's) Asbestos Hazard Emergency Response Act (AHERA). The AHERA regulation provides stringent standards and guidelines for the sampling, identification and management of asbestos-containing materials, which at a minimum meet the asbestos inspection requirements for demolition and renovation activities under the EPA's National Emissions Standard for Hazardous Air Pollutants (NESHAPs) for asbestos. Pursuant to the needs of Light of the World Academy (determination of locations of asbestos-containing materials prior to renovations or demolition) and the description of services provided by AEG for this NESHAPs Asbestos Inspection, AEG did not assess any material during the inspection activities. Assessments, identification of types, locations and extent of damaged materials and recommended response actions are not included in this report. **The report should be made available to all building employees, occupants (or their legal guardians), short-term workers, and renovation/demolition contractors.**

6.0 / Asbestos Inspection Terminology

For purposes of this Asbestos Inspection, AEG completed all aspects of the inspection in accordance with EPA and OSHA regulations. AHERA, ASHARA, NESHAPs, the EPA's "Purple" and "Green" books and the OSHA regulation outline procedures for identifying, sampling, analyzing and assessing potential asbestos-containing materials. Important words/phrases used throughout these regulations and guidance documents and used throughout this report are (as defined by AHERA (in 40 CFR 763.83):

- "Asbestos-Containing Material (ACM)" means any material containing greater than one percent (>1%) asbestos.
- "Category I Non-Friable Asbestos-Containing Materials" means non-friable asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.
- "Category II Non-Friable Asbestos-Containing Materials" means any other non-friable asbestos-containing materials, excluding Category I non-friable materials.
- "Functional space" means a room, group of rooms, or homogeneous area (including crawl spaces or the space between a dropped ceiling and the floor or roof deck above), such as classroom(s), a cafeteria, a gymnasium, hallway(s), designated by a person accredited to prepare management plans, design abatement projects, or conduct response actions. [For purposes of this inspection, AEG's Accredited Asbestos Inspector has included the area above a ceiling in the corresponding functional space. For example the space above the ceiling in Office A is a part of Office A.]
- "Friable" when referring to material in a school building means that the material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously non-friable material after such previously non-friable material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.
- "Homogeneous Area" means an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture.

- "Nonfriable" means material in a school building which when dry may not be crumbled, pulverized, or reduced to powder by hand pressure.
- "Regulated Asbestos-Containing Materials" means all friable asbestos-containing materials; Category I non-friable ACM that has become friable; Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading; or Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized or reduced to powder by forces expected to act on it during demolition or renovation operations.

7.0 / Report Format

The remainder of AEG's report is broken down into the following five (5) sections:

- *Appendix A – Information on Asbestos-Containing Materials:* This appendix provides a report user (which may be Owner's representatives, maintenance and custodial workers, as well as construction managers or architects) with information related to the presence of asbestos-containing materials. AEG provides this information for use by persons unaccustomed to the technical detail of standard asbestos inspection reports. The user will be able to gather a synopsis of all other information provided in the report.
- *Appendix B – Floor Plans Indicating Locations of Asbestos-Containing Materials:* This appendix provides color maps graphically illustrating the approximate locations of each of the asbestos-containing materials identified during the inspection.
- *Appendix C – Tables of ACM/Non-ACM:* This appendix provides a detailed listing of all materials (homogeneous areas) in each location (functional space) in the building. Information on each material includes; material description, indication of asbestos-containing material (yes, no or assumed), material category (surfacing, thermal system insulation, friable (or non-friable) and quantity. There are two (2) tables provided: one (1) sorted by location (functional space) and one (1) sorted by material (homogeneous area).
- *Appendix D – Bulk Sample Results:* This appendix provides all of the laboratory results for the bulk samples collected. An AEG formatted report is provided with results from the laboratory. Sample and laboratory accreditation is provided as well.
- *Appendix E – Inspector Credentials:* This appendix provides The State of Michigan accreditations, training documentation, and appropriate signatures for each of the Accredited Asbestos Inspectors.

APPENDIX A
Information on Asbestos-Containing Materials

INFORMATION ON ASBESTOS-CONTAINING MATERIALS

AEG's NESHAPs Asbestos Inspection includes an inspection of the building for asbestos-containing materials and correlates the locations of the materials to the current building layout.

Summary of Impact of Asbestos-Containing Materials on Building Renovation or Demolition Projects

AEG's inspection of the facility identified several asbestos-containing materials which may be impacted by any building renovations or demolition. The following materials were identified as Regulated Asbestos-Containing Materials (RACM):

- Packed Pipe Insulation on Fiberglass Lines
- Straight Pipe Insulation, Millboard Lines

In accordance with the EPA's National Emissions Standard for Hazardous Air Pollutants (NESHAPs), these materials should be removed prior to the proposed renovation or demolition activities. The NESHAPs regulation does allow for certain Category I and Category II non-friable materials to remain in the building prior to demolition, and this can be accomplished if certain demolition criteria are met (i.e. worker protection, material handling, waste disposal, etc.). However, this is typically cost prohibitive. AEG recommends the removal of all asbestos-containing materials prior to building renovation or demolition.

Quantities of Asbestos-Containing Materials

The following types of materials are known asbestos-containing materials, or are assumed and could not be sampled as part of this inspection, at Light of the World Academy located at 550 E. Hamburg St., Pinckney, MI for Light of the World Academy:

<u>Known Material Type</u>	<u>Total sf/lf/#</u>
Door Caulk, Interior Door, White	400 lf
Packed Pipe Insulation on Fiberglass Lines	22 #
Straight Pipe Insulation, Millboard Lines	95 lf
Window Caulk, Exterior Windows, Interior Side, Gray	1,025 lf
<u>Assumed Material Type</u>	<u>Total sf/lf/#</u>
Boilers	2 #
Fire Door/Frame	5 #

Room-by-Room Inventory of Asbestos-Containing Materials

A listing of all materials in each room (functional space) can be found in Appendix B. The following is a room-by-room listing of all asbestos-containing materials.

<u>Floor</u>	<u>Location</u>	<u>Material</u>	<u>sf/lf/#</u>
1	A4	Window Caulk, Exterior Windows, Interior Side, Gray	70 lf
1	A5	Window Caulk, Exterior Windows, Interior Side, Gray	70 lf
1	A6	Window Caulk, Exterior Windows, Interior Side, Gray	70 lf
1	A6	Packed Pipe Insulation on Fiberglass Lines	1 #
1	A7	Window Caulk, Exterior Windows, Interior Side, Gray	70 lf
1	A7	Packed Pipe Insulation on Fiberglass Lines	1 #
1	A8	Window Caulk, Exterior Windows, Interior Side, Gray	75 lf
1	A9	Window Caulk, Exterior Windows, Interior Side, Gray	75 lf
1	Athletic Director's Office	Window Caulk, Exterior Windows, Interior Side, Gray	20 lf
1	Athletic Director's Office	Door Caulk, Interior Door, White	20 lf
1	B3	Window Caulk, Exterior Windows, Interior Side, Gray	70 lf
1	B4	Window Caulk, Exterior Windows, Interior Side, Gray	70 lf
1	B5	Window Caulk, Exterior Windows, Interior Side, Gray	70 lf

1	B6	Window Caulk, Exterior Windows, Interior Side, Gray	70 lf
1	Boys Locker-room	Door Caulk, Interior Door, White	20 lf
1	C4	Window Caulk, Exterior Windows, Interior Side, Gray	30 lf
1	C5	Window Caulk, Exterior Windows, Interior Side, Gray	30 lf
1	C6	Window Caulk, Exterior Windows, Interior Side, Gray	30 lf
1	C7	Window Caulk, Exterior Windows, Interior Side, Gray	30 lf
1	C8	Window Caulk, Exterior Windows, Interior Side, Gray	30 lf
1	C9	Window Caulk, Exterior Windows, Interior Side, Gray	30 lf
1	C9	Window Caulk, Exterior Windows, Interior Side, Gray	20 lf
1	Dry Goods Storage	Door Caulk, Interior Door, White	20 lf
1	Exterior	Fire Door/Frame	1 #
1	Girl's Locker-room	Window Caulk, Exterior Windows, Exterior Side, Gray	950 lf
1	Gym/Locker-room Hall	Door Caulk, Interior Door, White	20 lf
1	Gym/Locker-room Hall	Window Caulk, Exterior Windows, Interior Side, Gray	90 lf
1	Gymnasium	Door Caulk, Interior Door, White	20 lf
1	Hot Water Heater Room	Door Caulk, Interior Door, White	20 lf
1	Kitchen	Door Caulk, Interior Door, White	20 lf
1	Kitchen Hall	Door Caulk, Interior Door, White	40 lf
1	Kitchen Storage	Door Caulk, Interior Door, White	20 lf
1	Kitchen Storage	Fire Door/Frame	1 #
1	Main Hall	Door Caulk, Interior Door, White	20 lf
1	North Boiler Room	Door Caulk, Interior Door, White	40 lf
1	North Boiler Room	Fire Door/Frame	1 #
1	North Boiler Room	Boilers	2 #
1	North Boiler Room	Door Caulk, Interior Door, White	20 lf
1	North Boiler Room	Packed Pipe Insulation on Fiberglass Lines	20 #
1	Office	Straight Pipe Insulation, Millboard Lines	55 lf
1	Playroom	Window Caulk, Exterior Windows, Interior Side, Gray	50 lf
1	Playroom	Window Caulk, Exterior Windows, Interior Side, Gray	60 lf
1	South Boiler Room	Door Caulk, Interior Door, White	20 lf
1	South Boiler Room	Boilers	1 #
1	South Janitors Closet	Door Caulk, Interior Door, White	20 lf
1	Store Room	Straight Pipe Insulation, Millboard Lines	20 lf
1	Store Room	Fire Door/Frame	1 #
		Straight Pipe Insulation, Millboard Lines	20 lf

Inaccessible Materials:

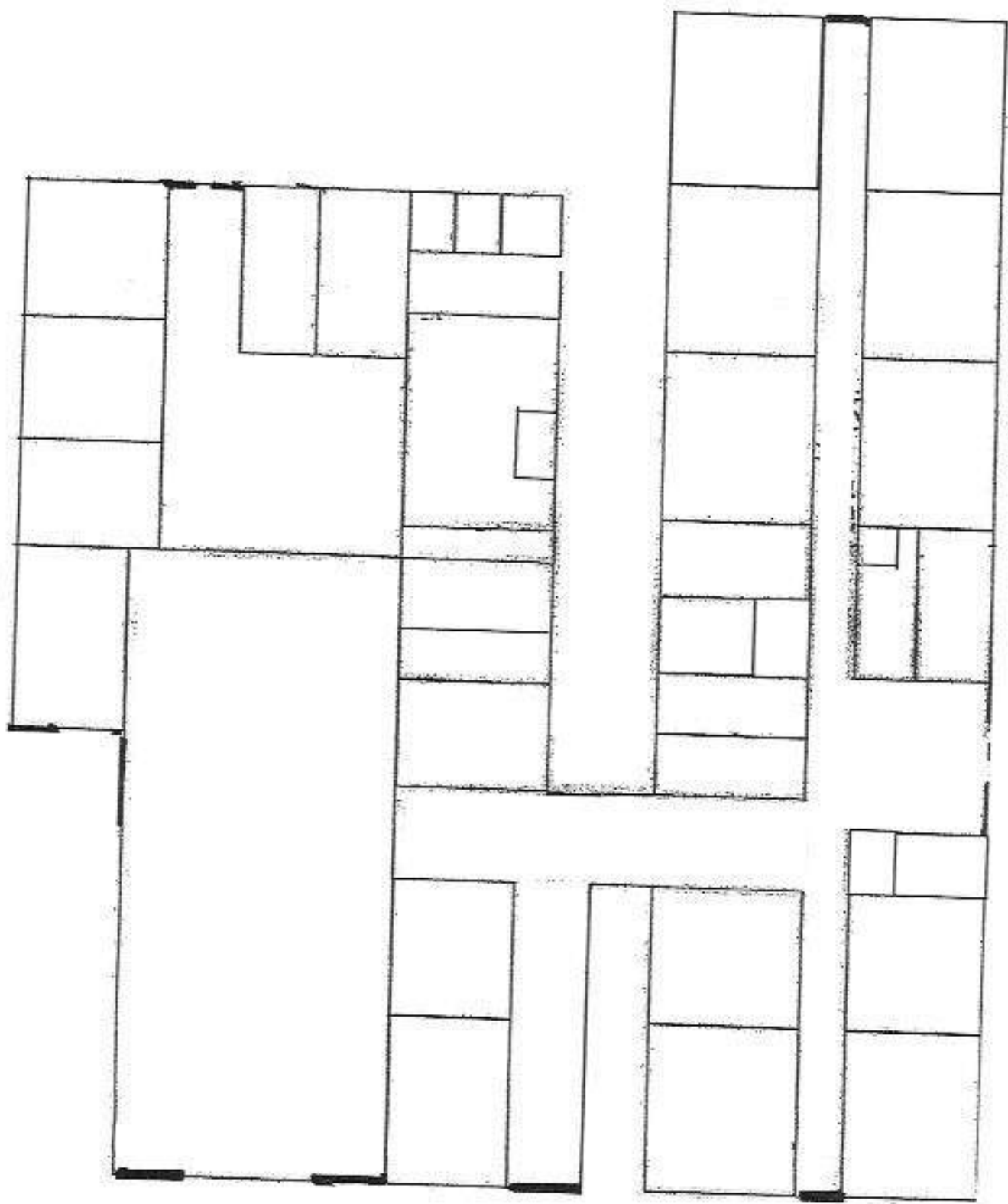
There may be additional quantities of asbestos pipe insulation or types of pipe insulation, which were not identified or sampled as a part of the inspection, in various inaccessible locations, such as inside wall cavities, inside wall construction materials (between cinder block or brick, especially around water sources) and above inaccessible ceilings (such as drywall or plaster). If suspect pipe insulation is found, please contact the Accredited Asbestos Inspector, Mr. Gary C. Bosh, AEG, at (248) 426-0165.

APPENDIX B
FLOOR PLANS INDICATING LOCATIONS OF ASBESTOS-CONTAINING MATERIALS

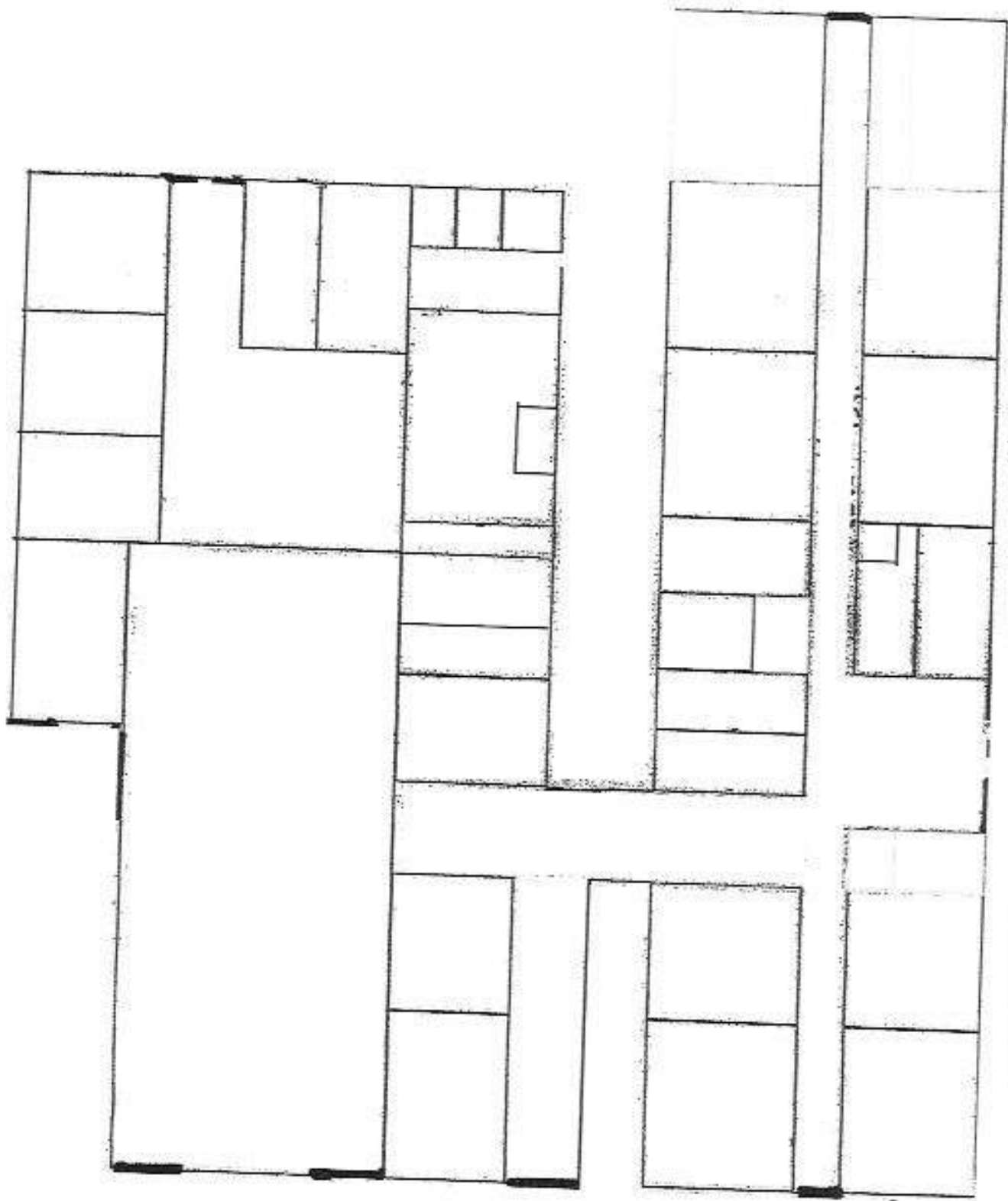
FLOOR PLANS INDICATING LOCATIONS OF ASBESTOS-CONTAINING MATERIALS

AEG prepared several floor plans for the Light of the World Academy located at 550 E. Hamburg St., Pinckney, MI for Light of the World Academy to illustrate the approximate locations of certain asbestos-containing materials. Floor plans include:

Map #	Map Name	Page #
1	Light of the World Academy – Building Floor Plan	10
2	Light of the World Academy – ACM Pipe Locations	11
3	Light of the World Academy – ACM Window – Door Caulk Locations	12
4	Light of the World Academy – Fire Door – Frame Locations	13

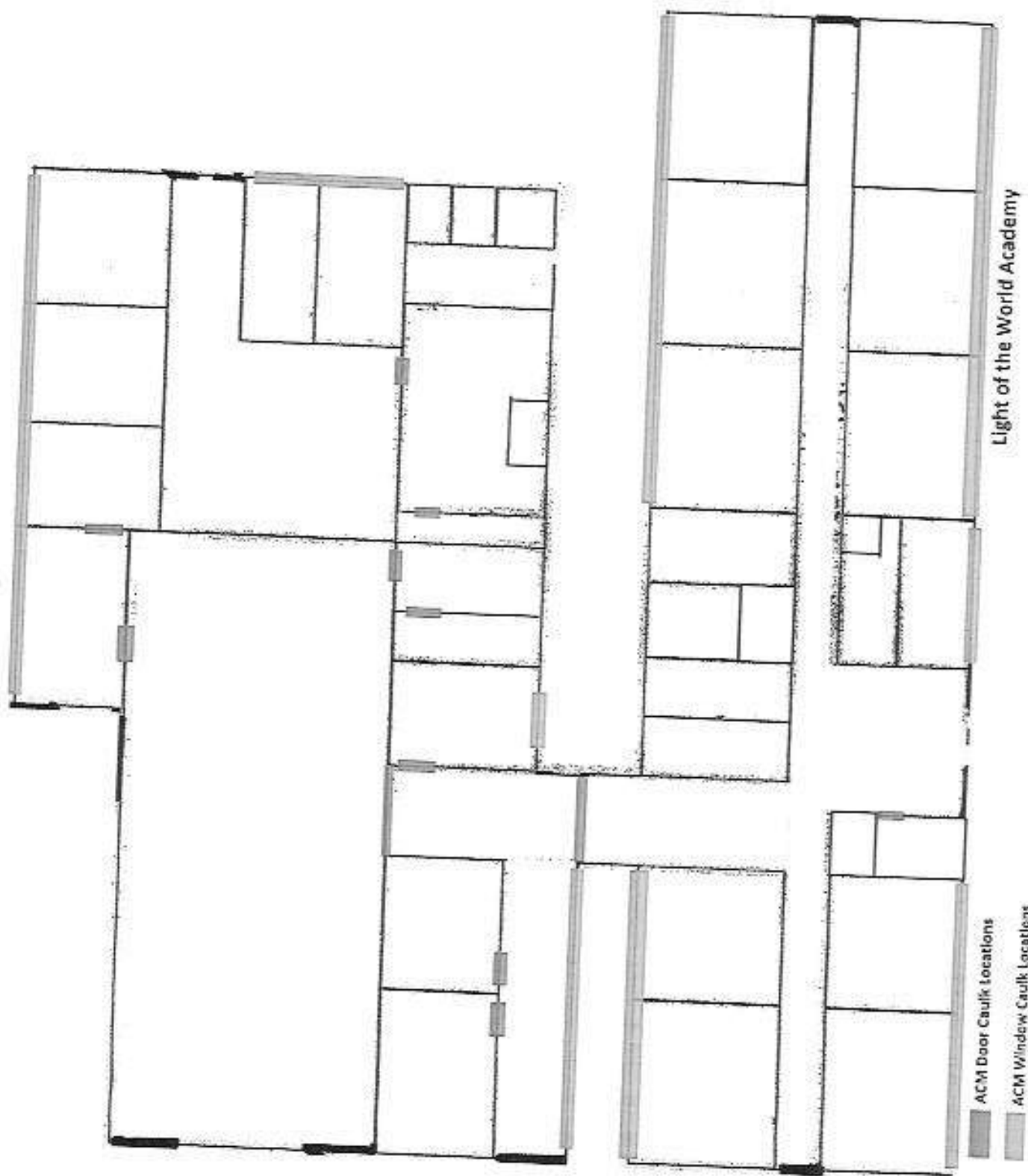


Light of the World Academy

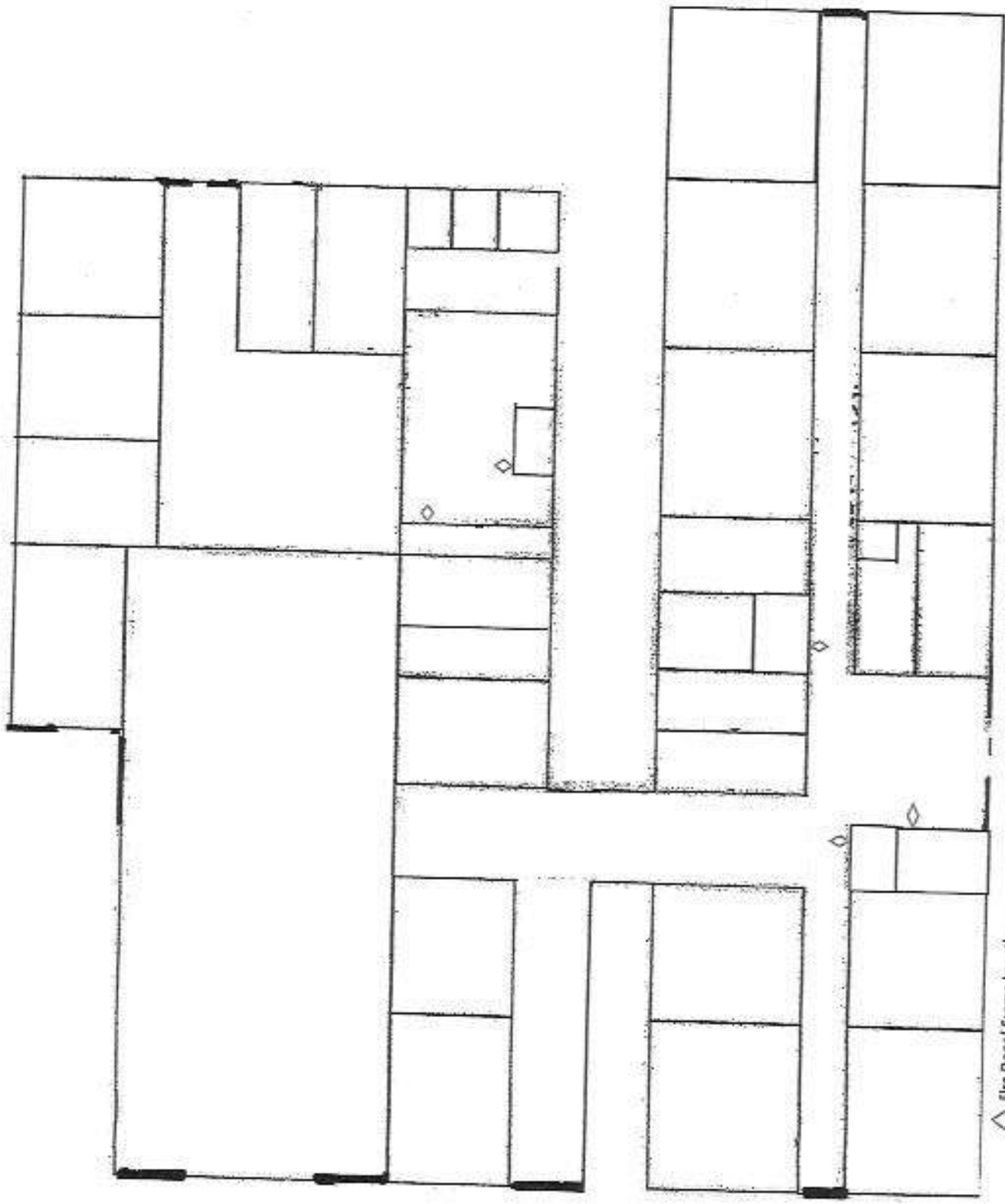


Light of the World Academy

ACM Pipe Insulation Locations



Light of the World Academy



Light of the World Academy

◇ Fire Door/ Frame Locations

APPENDIX C

Tables of ACM/Non-ACM

TABLES OF ACM/NON-ACM

The following tables provide a listing by building area showing the locations of all asbestos-containing materials and non-asbestos-containing materials. There are two (2) tables provided: one (1) sorted by location (functional space) and one (1) sorted by material (homogeneous area). Each table includes the following information for each functional space:

- Floor
- Functional Space Name
- Material Description
- ACM – Does the material contain asbestos?
- Category – Is the material a surfacing material (S), thermal system insulation (TSI) or a miscellaneous material (M)?
- Friable – Is the material friable (F) or non-friable (NF)?
- Quantity – Approximate quantity of the material present in the functional space.
- Notes – Additional information about the material
- Status – Is the asbestos material present?

Asbestos-Containing Materials

Surfacing Materials

Quantity

None

Thermal System Insulation

Packed Pipe Insulation on Fiberglass Lines

22 #

Straight Pipe Insulation, Millboard Lines

95 lf

Miscellaneous Materials

Door Caulk, Interior Door, White

400 lf

Window Caulk, Exterior Windows, Exterior Side, Gray

950 lf

Window Caulk, Exterior Windows, Interior Side, Gray

1,025 lf

Assumed Asbestos-Containing Materials

Surfacing Materials

Quantity

None

Thermal System Insulation

None

Miscellaneous Materials

Boilers

2 #

Fire Door/Frame

5 #

Non-Asbestos-Containing Materials

Surfacing Materials

Quantity

Hard Plaster, Ceiling, Smooth Finish, Brown coat

660 sf

Hard Plaster, Ceiling, Smooth Finish, Finish coat

660 sf

Thermal System Insulation

None

<i>Miscellaneous Materials</i>	
Acoustical Ceiling Tile, 12"x12" Dots and Deep Gouges	1,300 sf
Acoustical Ceiling Tile, 12"x12" Uniform Holes	5,952 sf
Adhesive (Gluepod) Remnants	250 sf
Adhesive (Gluepod) for Acoustical Ceiling Tile, 12"x12" Dots and Deep Gouges	1,300 sf
Adhesive (Gluepod) for Acoustical Ceiling Tile, 12"x12" Uniform Holes	5,952 sf
Adhesive (Gluepod) for Chalkboard	100 sf
Adhesive for Corner Covebase, 6", Black	330 lf
Adhesive for Covebase, 2", Black	2,676 lf
Adhesive for Covebase, 4", Blue	1,726 lf
Corner Covebase, 6", Black	330 lf
Covebase, 2", Black	2,676 lf
Covebase, 4", Blue	1,726 lf
Drywall	7,044 sf
Drywall Mud	408 sf
Drywall Tape	408 sf
Floor Tile Mastic, 12"x12", Cream Mottled	872 sf
Floor Tile Mastic, 12"x12", Gray Mottled	784 sf
Floor Tile Mastic, 12"x12", White w/ Gray Streaks	448 sf
Floor Tile, 12"x12", Cream Mottled	872 sf
Floor Tile, 12"x12", Gray Mottled	784 sf
Floor Tile, 12"x12", White w/ Gray Streaks	448 sf
Gym Wood Flooring, Tarpaper w/ Mastic	6,500 sf
Lab Table Top - Black	70 sf
Lay-in Ceiling Tile, 2'x4', Deep Gouges	16,944 sf
Lay-in Ceiling Tile, 2'x4', Textured Pin Holes	720 sf
Lay-in Ceiling Tile, 2'x2', Textured White	6,500 sf
Plasterboard Deck	9,756 sf
Unknown Mastic, Black	9,980 sf
Window Glaze, Exterior Windows, Exterior Side	1,900 lf

TABLE OF HOMOGENEOUS AREAS BY FUNCTIONAL SPACE

Floor	Functional Space (Location)	Material Description	ACMP	Category	Frable	Quantity	Notes	Status
1	A9	Cinderblock	---	---	---	---	---	---
1	A9	Underblock Mortar	---	---	---	---	---	---
1	A9	Brick	---	---	---	---	---	---
1	A9	Brick Mortar	---	---	---	---	---	---
1	A9	Covebase, 4", Blue	---	---	---	---	---	---
1	A9	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Frable	112 lf		
1	A9	Floor Tile, 12"x12", White w/ Gray Streaks	No	Miscellaneous	Non-Frable	112 lf	3	
1	A9	Floor Tile Mastic, 12"x12", White w/ Gray Streaks	No	Miscellaneous	Non-Frable	224 sf	9	
1	A9	Lay-in Ceiling Tile, 2'x4', Deep Gouges	No	Miscellaneous	Non-Frable	224 sf		
1	A9	Window Caulk, Exterior Windows, Interior Side, Gray	No	Miscellaneous	Frable	784 sf		
1	A9	Adhesive (Gluepod) for Chalkboard	Yes	Miscellaneous	Non-Frable	75 lf	1	Present
1	A9	Unknown Mastic, Black	No	Miscellaneous	Non-Frable	50 sf		
1	A9	Cinderblock	---	---	---	---	---	---
1	A9	Underblock Mortar	---	---	---	---	---	---
1	A9	Brick	---	---	---	---	---	---
1	A9	Brick Mortar	---	---	---	---	---	---
1	A9	Covebase, 4", Blue	---	---	---	---	---	---
1	A9	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Frable	112 lf		
1	A9	Floor Tile, 12"x12", White w/ Gray Streaks	No	Miscellaneous	Non-Frable	112 lf	3	
1	A9	Floor Tile Mastic, 12"x12", White w/ Gray Streaks	No	Miscellaneous	Non-Frable	224 sf	9	
1	A9	Lay-in Ceiling Tile, 2'x4', Deep Gouges	No	Miscellaneous	Non-Frable	224 sf		
1	A9	Window Caulk, Exterior Windows, Interior Side, Gray	No	Miscellaneous	Frable	784 sf		
1	A9	Adhesive (Gluepod) for Chalkboard	Yes	Miscellaneous	Non-Frable	75 lf	1	Present
1	A9	Adhesive (Gluepod) Remnants	No	Miscellaneous	Non-Frable	50 sf		
1	A9	Unknown Mastic, Black	No	Miscellaneous	Non-Frable	50 sf		
1	A9	Cinderblock	---	---	---	---	---	---
1	A9	Underblock Mortar	---	---	---	---	---	---
1	A9	Covebase, 4", Blue	---	---	---	---	---	---
1	A9	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Frable	112 lf		
1	A9	Lay-in Ceiling Tile, 2'x4', Deep Gouges	No	Miscellaneous	Non-Frable	112 lf	3	
1	A9	Plasterboard Deck	No	Miscellaneous	Frable	784 sf		
1	A9	Window Caulk, Exterior Windows, Interior Side, Gray	No	Miscellaneous	Non-Frable	784 sf		
1	A9	Adhesive (Gluepod) Remnants	Yes	Miscellaneous	Non-Frable	70 lf	1	Present
1	A9	Straight Pipe Insulation, Fiberglass Lines	No	Miscellaneous	Non-Frable	50 sf		
1	A9	Packed Pipe Insulation on Fiberglass Lines	---	---	---	---	---	---
1	A9	Unknown Mastic, Black	Yes	TSI	Frable	1 lf	8	Present
1	A9	Acoustical Ceiling Tile, 12"x12", Uniform Holes	No	Miscellaneous	Non-Frable	784 sf	5	
1	A9	Adhesive (Gluepod) for Acoustical Ceiling Tile, 12"x12", Uniform Holes	No	Miscellaneous	Frable	784 sf		
1	A9	Cinderblock	---	---	---	---	---	---
1	A9	Underblock Mortar	---	---	---	---	---	---
1	A9	Covebase, 4", Blue	---	---	---	---	---	---
1	A9	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Frable	112 lf		
1	A9	Lay-in Ceiling Tile, 2'x4', Deep Gouges	No	Miscellaneous	Non-Frable	112 lf	3	
1	A9	Plasterboard Deck	No	Miscellaneous	Frable	784 sf		
1	A9	Window Caulk, Exterior Windows, Interior Side, Gray	No	Miscellaneous	Non-Frable	784 sf		
1	A9	Adhesive (Gluepod) Remnants	Yes	Miscellaneous	Non-Frable	70 lf	1	Present

TABLE OF HOMOGENEOUS AREAS IN FUNCTIONAL SPACE

[illegible]

TABLE OF HOMOGENEOUS AREAS BY FUNCTIONAL SPACE

Floor	Functional Space Location	Material Description	ACM	Category	Fitout	Quantity	Revol	Status
1	Exterior	Brick exterior						
1	Exterior	Window Glaze, Exterior Windows, Exterior Sills	No	Miscellaneous	Non-Finish	1,500 lf	3	Revised
1	Interior	Window Glaze, Exterior Windows, Exterior Sills, Gray	Yes	Miscellaneous	Non-Finish	930 lf	2	Revised
1	Interior	Door Glaze, Exterior Doors, White	No	Miscellaneous	Non-Finish	975 lf	1	

Notes:

1. Door, window and other built-in materials quantified in linear footage. To obtain square footage of linear footage should be multiplied by the width of the built-in (approximately 6.0 ft feet).
2. Window glazing materials quantified in linear footage. To obtain square footage of linear footage should be multiplied by the width of the built-in (approximately 6.0 ft feet).
3. Cove base materials quantified with cove base in linear footage. To obtain square footage of linear footage should be multiplied by the height of the cove base (approximately 0.33 feet).
4. Cove base materials quantified with cove base in linear footage. To obtain square footage of linear footage should be multiplied by the height of the cove base (approximately 0.33 feet).
5. Unknown Glaze, Brick material quantified with linear footage.
6. Due to material availability and pricing, the quantities for drywall and drywall tape are estimated.
7. (Revised) Unknown materials quantified in linear footage. To obtain square footage of linear footage should be multiplied by the height of the material (approximately 0.33 feet).
8. Estimated linear footage of linear footage. To obtain square footage of linear footage should be multiplied by the height of the material (approximately 0.33 feet).
9. Double layer of floor tile, linear footage.
10. Linear footage of linear footage.

Notes:

Only provided for information purposes. Please do not change the quantities in the table since the materials are not in the table.

TABLE OF HOMOGENEOUS AREAS BY HOMOGENEOUS AREA

Floor	Functional Space (Location)	Material Description	Acct#	Category	Fltble	Quantity	Date	Status
1	C8	Adhesive for Covebase, 2", Black	No	Miscellaneous	Non-Fltble	540 lf	9	
1	Cadence A	Adhesive for Covebase, 2", Black	No	Miscellaneous	Non-Fltble	564 lf	9	
1	Kitchen Hall	Adhesive for Covebase, 2", Black	No	Miscellaneous	Non-Fltble	32 lf	9	
1	Kitchen	Adhesive for Covebase, 2", Black	No	Miscellaneous	Non-Fltble	1,679 lf	9	
1	Cym/Locker/comm hall	Adhesive for Covebase, 2", Black	No	Miscellaneous	Non-Fltble	185 lf	9	
Adhesive for Covebase, 4", Blue							3,723 lf	
1	A5	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	112 lf	9	
1	A5	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	112 lf	9	
1	A7	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	112 lf	9	
1	A5	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	112 lf	9	
1	A5	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	112 lf	9	
1	A1	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	54 lf	9	
1	Warren	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	112 lf	9	
1	B2	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	112 lf	9	
1	B2	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	112 lf	9	
1	B4	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	112 lf	9	
1	Encls	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	52 lf	9	
1	Principal's Office	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	52 lf	9	
1	Playroom	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	52 lf	9	
1	LA	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	52 lf	9	
1	Pratt Hall	Adhesive for Covebase, 4", Blue	No	Miscellaneous	Non-Fltble	560 lf	9	
Sellers							3 lf	
1	North Side Room	Brick	ASST-MG			1 lf	Present	
1	South Side Room	Brick	ASST-MG			1 lf	Present	
Brick								
1	A5	Brick						
1	A5	Brick						
1	Esther	Brick						
Brick Mortar								
1	A5	Brick Mortar						
1	A5	Brick Mortar						
1	Esther	Brick Mortar						
Underblock								
1	A9	Underblock						
1	A8	Underblock						
1	A5	Underblock						
1	A5	Underblock						
1	A5	Underblock						
1	A4	Underblock						
1	Gibb Restroom	Underblock						
1	South Side Corridor	Underblock						
1	Boys Bathroom	Underblock						
1	Westroom	Underblock						
1	B3	Underblock						
1	B5	Underblock						
1	GA	Underblock						

TABLE OF HOMOGENEOUS AREAS BY HOMOGENEOUS AREA

Room	Room and Space (Location)	Material Description	ACMT	Category	Friction	Quantity	Notes	Status
1	B4	Underblack						
2	Store Room	Underblack						
3	North Office Room	Underblack						
4	Office	Underblack						
5	Principal's Office	Underblack						
6	Office Reception	Underblack						
7	Reception Room	Underblack						
8	Girls Locker Room	Underblack						
9	Girls Locker Room	Underblack						
10	Principal's Office	Underblack						
11	Principal's Office	Underblack						
12	Principal's Office	Underblack						
13	Principal's Office	Underblack						
14	Principal's Office	Underblack						
15	Principal's Office	Underblack						
16	Principal's Office	Underblack						
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92	Principal's Office	Underblack						
93	Principal's Office	Underblack						
94	Principal's Office	Underblack						
95	Principal's Office	Underblack						
96	Principal's Office	Underblack						
97	Principal's Office	Underblack						
98	Principal's Office	Underblack						
99	Principal's Office	Underblack						
100	Principal's Office	Underblack						

TABLE OF HOMOGENEOUS AREAS BY HOMOGENEOUS AREA

Room	Functional Space/Location	Material Description	ACMP	Category	Finish	Quantity	Notes	Notes
Floor 17A Vestibule, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile Mosaic, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	448 sf		
1	AT	Floor Tile Mosaic, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	224 sf		
Floor 17B, 12'x12', Green Mottled								
1	Kitchen (Hd)	Floor Tile, 12'x12', Green Mottled	No	Miscellaneous	Non-Finish	872 sf		
1	Dry Good Storage	Floor Tile, 12'x12', Green Mottled	No	Miscellaneous	Non-Finish	352 sf		
1	Supply/Storage Room (Hd)	Floor Tile, 12'x12', Green Mottled	No	Miscellaneous	Non-Finish	30 sf		
Floor 17C, 12'x12', Gray Mottled								
1	BT	Floor Tile, 12'x12', Gray Mottled	No	Miscellaneous	Non-Finish	552 sf		
Floor 17D, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	784 sf		
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	448 sf		
Room 17E, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	224 sf		
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	224 sf		
Room 17F, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	8,500 sf		
Room 17G, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	5,500 sf		
Room 17H, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	862 sf		
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	300 sf		
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	300 sf		
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	60 sf		
Room 17I, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17J, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17K, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17L, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17M, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17N, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17O, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17P, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17Q, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17R, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17S, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17T, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17U, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17V, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17W, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17X, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17Y, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		
Room 17Z, 12'x12', White w/ Gray Stripes								
1	AT	Floor Tile, 12'x12', White w/ Gray Stripes	No	Miscellaneous	Non-Finish	80 sf		

TABLE OF HOMOGENEOUS AREAS BY HOMOGENEOUS AREA

Floor Function/State (Function)						
ACME	Category	Table	Quantity	Notes	Status	
1	CS	Revised Floor	1		1	
2	CS	Revised Floor	1		2	
3	CS	Revised Floor	1		3	
4	CS	Revised Floor	1		4	
5	CS	Revised Floor	1		5	
6	CS	Revised Floor	1		6	
7	CS	Revised Floor	1		7	
8	CS	Revised Floor	1		8	
9	CS	Revised Floor	1		9	
10	CS	Revised Floor	1		10	
11	CS	Revised Floor	1		11	
12	CS	Revised Floor	1		12	
13	CS	Revised Floor	1		13	
14	CS	Revised Floor	1		14	
15	CS	Revised Floor	1		15	
16	CS	Revised Floor	1		16	
17	CS	Revised Floor	1		17	
18	CS	Revised Floor	1		18	
19	CS	Revised Floor	1		19	
20	CS	Revised Floor	1		20	
21	CS	Revised Floor	1		21	
22	CS	Revised Floor	1		22	
23	CS	Revised Floor	1		23	
24	CS	Revised Floor	1		24	
25	CS	Revised Floor	1		25	
26	CS	Revised Floor	1		26	
27	CS	Revised Floor	1		27	
28	CS	Revised Floor	1		28	
29	CS	Revised Floor	1		29	
30	CS	Revised Floor	1		30	
31	CS	Revised Floor	1		31	
32	CS	Revised Floor	1		32	
33	CS	Revised Floor	1		33	
34	CS	Revised Floor	1		34	
35	CS	Revised Floor	1		35	
36	CS	Revised Floor	1		36	
37	CS	Revised Floor	1		37	
38	CS	Revised Floor	1		38	
39	CS	Revised Floor	1		39	
40	CS	Revised Floor	1		40	
41	CS	Revised Floor	1		41	
42	CS	Revised Floor	1		42	
43	CS	Revised Floor	1		43	
44	CS	Revised Floor	1		44	
45	CS	Revised Floor	1		45	
46	CS	Revised Floor	1		46	
47	CS	Revised Floor	1		47	
48	CS	Revised Floor	1		48	
49	CS	Revised Floor	1		49	
50	CS	Revised Floor	1		50	
51	CS	Revised Floor	1		51	
52	CS	Revised Floor	1		52	
53	CS	Revised Floor	1		53	
54	CS	Revised Floor	1		54	
55	CS	Revised Floor	1		55	
56	CS	Revised Floor	1		56	
57	CS	Revised Floor	1		57	
58	CS	Revised Floor	1		58	
59	CS	Revised Floor	1		59	
60	CS	Revised Floor	1		60	
61	CS	Revised Floor	1		61	
62	CS	Revised Floor	1		62	
63	CS	Revised Floor	1		63	
64	CS	Revised Floor	1		64	
65	CS	Revised Floor	1		65	
66	CS	Revised Floor	1		66	
67	CS	Revised Floor	1		67	
68	CS	Revised Floor	1		68	
69	CS	Revised Floor	1		69	
70	CS	Revised Floor	1		70	
71	CS	Revised Floor	1		71	
72	CS	Revised Floor	1		72	
73	CS	Revised Floor	1		73	
74	CS	Revised Floor	1		74	
75	CS	Revised Floor	1		75	
76	CS	Revised Floor	1		76	
77	CS	Revised Floor	1		77	
78	CS	Revised Floor	1		78	
79	CS	Revised Floor	1		79	
80	CS	Revised Floor	1		80	
81	CS	Revised Floor	1		81	
82	CS	Revised Floor	1		82	
83	CS	Revised Floor	1		83	
84	CS	Revised Floor	1		84	
85	CS	Revised Floor	1		85	
86	CS	Revised Floor	1		86	
87	CS	Revised Floor	1		87	
88	CS	Revised Floor	1		88	
89	CS	Revised Floor	1		89	
90	CS	Revised Floor	1		90	
91	CS	Revised Floor	1		91	
92	CS	Revised Floor	1		92	
93	CS	Revised Floor	1		93	
94	CS	Revised Floor	1		94	
95	CS	Revised Floor	1		95	
96	CS	Revised Floor	1		96	
97	CS	Revised Floor	1		97	
98	CS	Revised Floor	1		98	
99	CS	Revised Floor	1		99	
100	CS	Revised Floor	1		100	

TABLE OF HOMOGENEOUS AREAS BY HOMOGENEOUS AREA

Item	Functional Space / Location	Material Description	ACM	Category	Unit	Quantity	Notes	Steps
Items								
1	Decorative window and glass material	Decorative window and glass material						
2	Window frame material	Window frame material						
3	Decorative window and glass material	Decorative window and glass material						
4	Decorative window and glass material	Decorative window and glass material						
5	Decorative window and glass material	Decorative window and glass material						
6	Decorative window and glass material	Decorative window and glass material						
7	Decorative window and glass material	Decorative window and glass material						
8	Decorative window and glass material	Decorative window and glass material						
9	Decorative window and glass material	Decorative window and glass material						
10	Decorative window and glass material	Decorative window and glass material						
Items								
11	Decorative window and glass material	Decorative window and glass material						
12	Decorative window and glass material	Decorative window and glass material						
13	Decorative window and glass material	Decorative window and glass material						
14	Decorative window and glass material	Decorative window and glass material						
15	Decorative window and glass material	Decorative window and glass material						
16	Decorative window and glass material	Decorative window and glass material						
17	Decorative window and glass material	Decorative window and glass material						
18	Decorative window and glass material	Decorative window and glass material						
19	Decorative window and glass material	Decorative window and glass material						
20	Decorative window and glass material	Decorative window and glass material						

APPENDIX D

Bulk Sample Results

BULK SAMPLE RESULTS

AFG collected a total of sixty-one (61) bulk samples during the on-site activities of the NESHAP's Asbestos Inspection. The bulk sample results are documented on the following pages and a copy of the laboratory results follow with this report. A total of fifty-four (54) samples were analyzed.

Bulk Sampling and Laboratory Information

The information listed below is provided to summarize pertinent information regarding the collection and analysis of the bulk samples.

Bulk Sampling Information

Dates of Sampling: February 6, 2016

Name of Accredited Inspector(s) who collected Bulk Samples:

Name of Inspector: Gary C. Bush

Accreditation Number: A15179

State of Accreditation: Michigan

Accred. Exp. Date: March 1, 2017

Training Exp. Date: September 27, 2016

Sampling Strategy

All samples collected by AFG are collected in accordance with either the applicable sections of the EPA's AHERA regulation (40 CFR 763.86), the OSHA asbestos standard (29 CFR 1926.1101) or the EPA's Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials.

Laboratory Information

Name of Laboratory: APEX Research Laboratories

Address of Laboratory: 11051 Hi-Tech Drive
Whitmore Lake, Michigan 48189

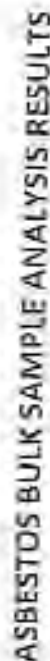
Name of Analyst: Robert J. Letarte

Signature of Analyst: See Attached Laboratory Results Sheet

NVLAP Number: 102118-0

Laboratory Statement of Accreditation:

All samples collected by AFG are analyzed for asbestos by laboratories accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), in accordance with 40 CFR, Part 763.87(a). This program is provided under the auspices of the United States Department of Commerce National Institute of Standards and Technology. The NVLAP Accreditation Number for the laboratory that performed the asbestos bulk analysis on the samples collected is provided above and noted on the Official Laboratory Results.



Client: Light of the World Academy
Building: Light of the World Academy
Location: Throughout
Project #: AE150833

Sample W

[illegible][illegible][illegible]

Official Laboratory Results are attached.

Asbestos-Containing Material (ACM) means "Any material or product which contains more than 1% asbestos" 40 CFR 263.83.

U.S. & Canada Acoustics Installation Report
1990-1991
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Client: Light of the World Academy
 Building: Light of the World Academy
 Location: Throughout
 Project #: AE150838

ASBESTOS BULK SAMPLE ANALYSIS RESULTS

Samples Collected By: Gary C. Buxton
 Sample Collection Date: February 6, 2016
 Samples Analyzed By: APEX Research, Inc.
 Sample Analysis Date: February 30, 2016

Sample #	HA Description	Sample Location	Results
0150	30" Ceiling, Interior Gym, White	Seat of Gym, Hall	Any Asbestos Observed
0151	Drywall	South Corridor, Elevator	No Asbestos Observed
0152	Drywall	Stair Hallway	No Asbestos Observed
0153	Drywall Tape	Multi, Janitor's Office	No Asbestos Observed
0154	Drywall Tape	Stair Janitor	No Asbestos Observed
0155	Drywall Tape	Stair Janitor	No Asbestos Observed
0156	Drywall Tape	Stair Janitor	No Asbestos Observed
0157	Drywall Tape	Stair Janitor	No Asbestos Observed
0158	Drywall Tape	Stair Janitor	No Asbestos Observed
0159	Drywall Tape	Stair Janitor	No Asbestos Observed
0160	Drywall Tape	Stair Janitor	No Asbestos Observed
0161	Drywall Tape	Stair Janitor	No Asbestos Observed
0162	Drywall Tape	Stair Janitor	No Asbestos Observed
0163	Drywall Tape	Stair Janitor	No Asbestos Observed
0164	Drywall Tape	Stair Janitor	No Asbestos Observed
0165	Drywall Tape	Stair Janitor	No Asbestos Observed
0166	Drywall Tape	Stair Janitor	No Asbestos Observed
0167	Drywall Tape	Stair Janitor	No Asbestos Observed
0168	Drywall Tape	Stair Janitor	No Asbestos Observed
0169	Drywall Tape	Stair Janitor	No Asbestos Observed
0170	Drywall Tape	Stair Janitor	No Asbestos Observed
0171	Drywall Tape	Stair Janitor	No Asbestos Observed
0172	Drywall Tape	Stair Janitor	No Asbestos Observed
0173	Drywall Tape	Stair Janitor	No Asbestos Observed
0174	Drywall Tape	Stair Janitor	No Asbestos Observed
0175	Drywall Tape	Stair Janitor	No Asbestos Observed
0176	Drywall Tape	Stair Janitor	No Asbestos Observed
0177	Drywall Tape	Stair Janitor	No Asbestos Observed
0178	Drywall Tape	Stair Janitor	No Asbestos Observed
0179	Drywall Tape	Stair Janitor	No Asbestos Observed
0180	Drywall Tape	Stair Janitor	No Asbestos Observed
0181	Drywall Tape	Stair Janitor	No Asbestos Observed
0182	Drywall Tape	Stair Janitor	No Asbestos Observed
0183	Drywall Tape	Stair Janitor	No Asbestos Observed
0184	Drywall Tape	Stair Janitor	No Asbestos Observed
0185	Drywall Tape	Stair Janitor	No Asbestos Observed
0186	Drywall Tape	Stair Janitor	No Asbestos Observed
0187	Drywall Tape	Stair Janitor	No Asbestos Observed
0188	Drywall Tape	Stair Janitor	No Asbestos Observed
0189	Drywall Tape	Stair Janitor	No Asbestos Observed
0190	Drywall Tape	Stair Janitor	No Asbestos Observed
0191	Drywall Tape	Stair Janitor	No Asbestos Observed
0192	Drywall Tape	Stair Janitor	No Asbestos Observed
0193	Drywall Tape	Stair Janitor	No Asbestos Observed
0194	Drywall Tape	Stair Janitor	No Asbestos Observed
0195	Drywall Tape	Stair Janitor	No Asbestos Observed
0196	Drywall Tape	Stair Janitor	No Asbestos Observed
0197	Drywall Tape	Stair Janitor	No Asbestos Observed
0198	Drywall Tape	Stair Janitor	No Asbestos Observed
0199	Drywall Tape	Stair Janitor	No Asbestos Observed
0200	Drywall Tape	Stair Janitor	No Asbestos Observed

Official Laboratory Results are attached.

Asbestos-Containing Materials (ACM) means "Any material or product which contains more than 1% asbestos" (40 CFR 763.83)

RES/MS Asbestos Inspection Report
 - April 17, 2016 - Asbestos
 - January 17, 2016





ASBESTOS BULK SAMPLE ANALYSIS RESULTS

Client: Light of the World Academy
 Building: Light of the World Academy
 Location: Throughout
 Project #: AE150838

Samples Collected By: Gary E. Gosh
 Sample Collection Date: February 6, 2016
 Samples Analyzed By: APEX Research, Inc.
 Sample Analysis Date: February 10, 2016

Sample #	HA Description	Sample Location	Results
031A	Unknown Mastic, Black	Southwest corner of room A5	No Asbestos Observed
031B	Unknown Mastic, Black	Southwest corner of room B1	No Asbestos Observed
032A	Acoustical Ceiling Tile, 12"x12" Uniform Holes	Ceiling of room A5	No Asbestos Observed
032B	Acoustical Ceiling Tile, 12"x12" Uniform Holes	Ceiling of room B1	No Asbestos Observed
033A	Adhesive (Glue) for Acoustical Ceiling Tile, 12"x12" Uniform Holes	Ceiling of room A5	No Asbestos Observed
033B	Adhesive (Glue) for Acoustical Ceiling Tile, 12"x12" Uniform Holes	Ceiling of room B1	No Asbestos Observed
035A	Window Sill, Exterior Windows, Exterior Side, Gray	Exterior Window of A5	No Asbestos Observed
035B	Window Sill, Exterior Windows, Exterior Side, Gray	Exterior Window of B1	No Asbestos Observed
036A	Window Caulk, Exterior Windows, Exterior Side, Gray	Exterior Window of A5	No Asbestos Observed
036B	Window Caulk, Exterior Windows, Exterior Side, Gray	Exterior Window of B1	No Asbestos Observed
037A	Window Caulk, Exterior Windows, Exterior Side, Gray	Exterior Window of A5	No Asbestos Observed
037B	Window Caulk, Exterior Windows, Exterior Side, Gray	Exterior Window of B1	No Asbestos Observed

Official Laboratory Results are attached.

Asbestos-Containing Materials (ACM) means "Any material or product which contains more than 1% asbestos" (40 CFR 763.83)

YESHARE Asbestos Inspection Report
 Light of the World Academy
 Brockton, MA



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Light of The World Academy
Project # AJ150838

Report To:
Mr. Gary Bossi
Arch Environmental Group
17720 Interchange Drive
Farmington Hills, MI 48335

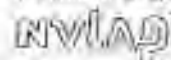
ARI Report # 16-02827
Date Collected: 03/06/16
Date Received: 03/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827-01 Cont. #: 001A Material: 4" Blue Covebase Location: W. Wall of Room A6 Appearance: blue, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 62827-01a Cont. #: 002A Material: Adhesive Location: W. Wall of Room A6 Appearance: beige, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 62827-01c Cont. #: 001B Material: 4" Blue Covebase Location: S. Wall of Room C9 Appearance: blue, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Laboratory Use Only - Do Not Remove

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 8000-40-115 was used to analyze the above samples. Matrix interference and/or resolution limit may yield false negative results in certain circumstances. Suspect floor tiles containing >1% should be tested with SEM or TEM. This certificate of analysis refers only to the samples tested and to ensure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research, Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code: D03118.0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AU150838

Report To:
Mr. Gary Bost
Anti-Environmental Group
17720 Interchange Drive
Farmington Hills, MI 48335

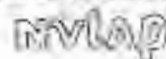
AHI Report #: 16-02827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 02a Cust. #: 002B Material: Adhesive Location: S. Wall of Room C9 Appearance: beige, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827 - 05 Cust. #: 003A Material: 12x12 White w/Grey Strands Floor Tile Location: NW Corner of Room A9 Appearance: blue, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827 - 05a Cust. #: 004A Material: Mastic Location: NW Corner of Room A9 Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%

Very small fibers can be observed in air and not necessarily hazardous.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/8-03-010 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false negative results in certain circumstances. Suspect floor tiles containing <1% asbestos should be tested with SEM or TEM. This certificate documents results only to the sample level and to ensure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for altered samples or samples containing multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102376-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Bosh
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

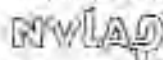
ARI Report #: 16-67827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827-03A Cust. #: 003A Material: Beige Floor Tile Location: NW Corner of Room A9 Appearance: beige, nonfibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Diller - 100%
Lab ID #: 62827-03B Cust. #: 004A Material: Mastic Location: NW Corner of Room A9 Appearance: black, nonfibrous, homogeneous Layer: 4 of 4	Asbestos Present: NO No Asbestos Observed	Diller - 100%
Lab ID #: 62827-04 Cust. #: 003B Material: 12x12 White w/Grey Streaks Floor Tile Location: NW Corner of Room A8 Appearance: blue, nonfibrous, homogeneous Layer: 1 of 4	Asbestos Present: NO No Asbestos Observed	Diller - 100%

For more information, please contact the report author.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 8000-DC-0175 was used to analyze the above samples. Matrix interference above resolution limits may yield false-negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or PLM. This certificate of analysis relates only to the samples tested and in no way the integrity of the results may only be represented in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples containing multiple materials. Liability limited to cost of analysis.



NVLAP Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:
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Arch Environmental Group
17720 Interchange Drive
Farmington Hills, MI 48335

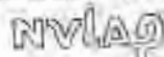
ARI Report # 16-62827
Date Collected: 03/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 040 Cust. #: 004B Material: Mastic Location: NW Corner of Room A8 Appearance: yellow, nonfibrous, homogenous Layer: 3 of 4	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827 - 040 Cust. #: 003B Material: Beige Floor Tile Location: NW Corner of Room A8 Appearance: beige, nonfibrous, homogenous Layer: 3 of 4	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827 - 040 Cust. #: 004B Material: Mastic Location: NW Corner of Room A8 Appearance: black, nonfibrous, homogenous Layer: 4 of 4	Asbestos Present: NO No Asbestos Observed	Other: 100%

For Laboratory Samples, please prepack and mail to facility and not return to customer.

Robert T. Delapje Jr., Laboratory Director

This Method EPA 600/6-92/115 was used to analyze the above samples. Matrix interference limits exclusion limits may yield false negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This polarizational analysis method only in the same material and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for altered samples or samples containing multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code: 1021160

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Light of The World Academy
Project # AL150838

Report To:

Mr. Gary Bosli
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48331

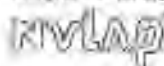
ARI Report # 16163827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827-05 Cust. #: 005A Material: 2x4 LCT - Deep Gouges Location: SW Corner of Ceiling in Room A1 Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 10%
Lab ID #: 62827-06 Cust. #: 005B Material: 2x4 LCT - Deep Gouges Location: NW Corner of Ceiling in Cafeteria Appearance: brown fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 62827-07 Cust. #: 006A Material: 12x12 ACT - Dots & Deep Gouges Location: W. Hall of Main Hall Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 10% Other - 30%

PLM Lab Code 1021840

Robert T. Letarte Jr.
Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/110 was used to analyze the above samples. Matrix interference and/or absorption data were used to determine negative results. Some concentrations reported may be less than 1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to assure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NALAP or any agency of the US Government. ARI Research, Inc. is not responsible for the accuracy of the results for foreign samples or samples containing multiple materials. Liability limited to cost of analysis.



NALAP Lab Code 1021840

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Bush
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

ART Report # 16-62827
Date Collected: 02/05/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 08 Cust. #: 006B Material: 12x12 ACT - Door & Door Goggles Location: E. Hall of Main Hall Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 62827 - 09 Cust. #: 007A Material: Adhesive - Glue Pod for 12x12 ACT Location: W. Hall of Main Hall Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 1% Other - 99%
Lab ID #: 62827 - 10 Cust. #: 007B Material: Adhesive - Glue Pod for 12x12 ACT Location: E. Hall of Main Hall Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 1% Other - 99%

For Laboratory Use Only: (To be filled out and initialed by analyst)

Robert T. Letarte Jr., Laboratory Director

This Method EPA 8460-R-92-11a was used to analyze the above samples. Microinfrared analysis resolution limits may yield false negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to ensure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product performance by NVLAP or any agency of the U.S. Government. APLX Research, Inc. is not responsible for the accuracy of the results for layered samples or samples containing multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AL150838


Report To:

Mr. Gary Bosh
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

ARI Report #: 16-63827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 11 Cust. #: 008A Material: Plasterboard Deck - Drywall Location: W. Hall of Main Hall Appearance: white, fibrous, nonhomogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 70% Other - 30%
Lab ID #: 62827 - 12 Cust. #: 008B Material: Plasterboard Deck - Drywall Location: E. Hall of Main Hall Appearance: white, fibrous, nonhomogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 70% Other - 30%
Lab ID #: 62827 - 13 Cust. #: 009A Material: Window Caulk Location: Exterior Windows Interior Side - in Rm B Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%

For Current Asbestos Sampling and Testing Procedures, See EPA 8460-R-01-001


Robert T. Letarte Jr., Laboratory Director

Test Method EPA 8460-R-01-001 was used to analyze the above samples. Microinterference polarized light microscopy may yield false negative results in certain circumstances. Suspect floor tiles containing 7% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to issue the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for repeat samples or samples consisting multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 10011640



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

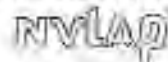
Report To:
Mr. Gary Bush
Arch Environmental Group
77720 Interchange Drive
Farmington Hills, MI 48335

AMI Report # 16-02827
Date Collected: 02/06/16
Date Received: 02/09/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Job ID #: 62827 - 14 Cust. #: 0098 Material: Window Caulk Location: Exterior Windows Interior Sine - in Rm CT Appearance: Layer: of	Asbestos Present: NO ASBESTOS OBSERVED	
Job ID #: 62827 - 15 Cust. #: 010A Material: Adhesive - Glue Pad for Chalkboard Location: Room A9 Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 10% Other: 99%
Job ID #: 62827 - 16 Cust. #: 010B Material: Adhesive - Glue Pad for Chalkboard Location: Room A8 Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 1% Other: 99%

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 8000-9-03/16 was used to analyze the above samples. Asbestos protocols and/or procedures may yield false negative results in certain circumstances. Samples (for bags containing 1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or an agency of the US Government. APEX Research Inc. is not responsible for the accuracy of test results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab ID# 021184

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Bosh
Arch Environmental Group
37770 Interchange Drive
Farmington Hills, MI 48335

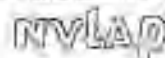
ARI Report #: 16-62827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 17 Cust. #: 011A Material: Adhesive - Glue Pod Remnants Location: Room A7 Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 1% Other - 99%
Lab ID #: 62827 - 18 Cust. #: 011B Material: Adhesive - Glue Pod Remnants Location: Room A4 Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 1% Other - 99%
Lab ID #: 62827 - 19 Cust. #: 012A Material: Straight Pipe Insulation - Milkboard Location: S. Janitor's Closet Appearance: brown, fibrous, nonhomogeneous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Cellulose - 60% Other - 30%

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Robert T. Letarte Jr., Laboratory Director

Test Method: EPA 600/4-93-010 was used to analyze the above samples. Matrix interference and/or resolution limits may yield triangulation results in certain circumstances. Systematic bias containing <1% should be tested with TEM or TEM. This certificate of analysis applies only to the samples tested and to ensure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product responsibility to NVLAP or any agency of the U.S. Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab # 600-102338-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:
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57720 Interchange Drive
Farmington Hills, MI 48335

ARI Report # 16-02827
Date Collected: 07/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 03/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 20 Cont. #: 012B Material: Straight Pipe Insulation - Millboard Location: Store Room Appearance: Layer: 01	Asbestos Present: NOT ANALYZED	
Lab ID #: 62827 - 21 Cont. #: 012C Material: Straight Pipe Insulation - Millboard Location: North Boiler Room Appearance: Layer: 01	Asbestos Present: NOT ANALYZED	
Lab ID #: 62827 - 22 Cont. #: 013A Material: Hard Plaster - Finish Coat Location: Girl's Restroom Appearance: white, crystalline, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Dilut: 100%

See Attached Sample Log for complete list of samples and test results.

Robert T. Letarte Jr., Laboratory Director

Test Method: EPA 8210-R-SEI 16 was used to analyze the above samples. Matrix interference and/or non-asbestos fibers may yield false negative results in certain circumstances. Support fiber like containing 1% should be tested with SEM or TEM. This certificate of analysis is independent to the samples tested and to insure the integrity of the results, may only be reanalyzed in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples containing multiple materials. Liability limited to text of analysis.



NVLAP Lab Code: 10211-01



Certificate of Laboratory Analysis

Test Method: Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Bosh
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

ARI Report # 16-62827
Date Collected: 02/08/16
Date Received: 03/08/16
Date Analyzed: 03/10/16
Date Reported: 03/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 22a Cust. #: 014A Material: Base Coat Location: Girls Restroom Appearance: grey/fibrous, homogeneous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 62827 - 23 Cust. #: 013B Material: Hard Plaster - Finish Coat Location: Men's Restroom Appearance: white, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiber - 100%
Lab ID #: 62827 - 23a Cust. #: 014B Material: Base Coat Location: Men's Restroom Appearance: grey/fibrous/homogeneous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

NYLAB 62827-22a, 62827-23, 62827-23a

Robert T. Letarte Jr., Laboratory Director

This Method EPA 600/R-93/110 was used to analyze the sample(s). Matrix interference during detection limits may yield false negative results in certain circumstances. Suspect fiber containing <1% should be tested with TEM or TFM. This certificate/analysis applies only to the sample(s) listed and to assure the integrity of the results may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NYLAB or any agency of the US Government. ARI Research Inc. is not responsible for the accuracy of the results for liquid samples or samples containing volatile materials. Liability limited to cost of analysis.



NYLAB Lab Code 10214-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Light of The World Academy
Project # AL150838

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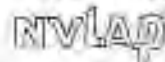
Mr. Gary Bush
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48331

Alt Report # 16-2827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/16/16
Date Reported: 02/16/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 3a Cust. #: 015A Material: Door Caulk - Interior Location: Door of North Boiler Room Appearance: yellow, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 62827 - 2b Cust. #: 015B Material: Door Caulk - Interior Location: Door of Kitchen Hall Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 62827 - 2a Cust. #: 016A Material: Drywall Location: South Janitor's Closet Appearance: white, fibrous, nonhomogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%

Robert T. Letarte, Jr., Laboratory Director

This method EPA 8230-R-93-116 was used to analyze the above samples. Matrix interference and/or minimum limits may yield false-negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate/analysis applies only to the samples listed and to ensure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to confer product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for repeated samples or samples containing multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code: 1021 (A-1)



Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Busch
Anti-Environmental Group
57730 Interchange Drive
Farmington Hills, MI 48331

ARI Report #: 16007827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

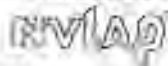
Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 27 Cust. #: 0160 Material: Drywall Location: Store Room Appearance: white, fibrous, nonhomogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 62827 - 28 Cust. #: 017A Material: Drywall Tape Location: South Janitor's Closet Appearance: white, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 70% Other - 30%
Lab ID #: 62827 - 29 Cust. #: 017B Material: Drywall Tape Location: Store Room Appearance: white, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 70% Other - 30%

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Rent Sheet

Robert T. Letane Jr., Laboratory Director

Test Method EPA 8000-US-118 was used to analyze the above samples. Asymmetrical interference bands commonly found may yield false negative results in certain circumstances. Samples from fires containing <1% should be tested with SEM or TEM. This analytical report relates only to the samples listed and to obtain the integrity of the results, may only be reproduced in full. This certificate may only be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research, Inc. is not responsible for the accuracy of the results for layered samples or samples containing magnetic materials. Liability limited in part by analysis.

[illegible]



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE-150838

Report To:

Mr. Gary Bosh
Arch Environmental Group
37728 Interchange Drive
Farmington Hills, MI 48335

ARI Report #: 16-62827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 01 Cust. #: 018A Material: Drywall Mud Location: South Auditor's Cloak Appearance: white, nonfibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 62827 - 31 Cust. #: 018B Material: Drywall Mud Location: Store Room Appearance: white, nonfibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 62827 - 32 Cust. #: 019A Material: PPF on Fiberglass Linc Location: Room A7 Appearance: grey, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 90%	Other - 40%

See Appendix C for details regarding the laboratory's analytical procedures.

Robert T. Laforte Jr., Laboratory Director

This Method EPA 8210-8-0115 was used to analyze this sample. When interference and/or resolution limits may yield false-negative results in certain circumstances, direct floor tiles containing <1% asbestos should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to ensure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product reimbursement by NPLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples containing multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 071116-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Bush
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

ARI Report # 16-67827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827-33 Cust. #: 018B Material: PPI on Fiberglass Line Location: Room A6 Appearance: Layer: 01	Asbestos Present: NOT ANALYZED	
Lab ID #: 62827-34 Cust. #: 019C Material: PPI on Fiberglass Line Location: North Boiler Room Appearance: Layer: 01	Asbestos Present: NOT ANALYZED	
Lab ID #: 62827-55 Cust. #: 020A Material: Lab Table Top - Black Location: Art Room B5 Appearance: black nonfibrous homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other: 100%

For APEX Research, your sample was analyzed using wet weight analysis.

Robert T. Loforte Jr., Laboratory Director

This Method EPA 8460/8470-15 was used to analyze the above samples. Minimum reference and/or detection limits may yield false-negative results in certain circumstances. Surfacted floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to assure the integrity of the results may only be reproduced in full. This certificate may not be used by the customer's data product endorsement by NVLAP or any agency of the U.S. Government. APEX Research Inc. is not responsible for the accuracy of full results for lowered samples or samples comprising multiple materials, liability limited to cost of analysis.



NVLAP Lab Code: 10213.0.0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AP150838

Report To:

Mr. Gary Bosh
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

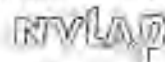
ARI Report # LG-62827
Date Collected: 02/08/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 36 Cust. #: 020B Material: Lab Table Top - Black Location: Art Room B3 Appearance: black, nonfibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 62827 - 37 Cust. #: 021A Material: 12x12 Grey Mottled Floor tile Location: SW Corner of Room B3 Appearance: grey, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 62827 - 31a Cust. #: 021A Material: Mastic Location: SW Corner of Room B3 Appearance: black, fibrous, homogeneous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Vermiculite - 1% Other - 99%

For Asbestos Sampling and Analysis, please contact your local health department.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/8-92-010 was used to analyze the above samples. Matrix interference and/or absorption limits may yield false negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to assure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product unsuitability by RVL AP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples containing multiple materials. Liability arising to cost of analysis.



RVLAP Lab Code 1011180



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Bosh
Area Environmental Group
77720 Interchange Drive
Farmington Hills, MI 48335

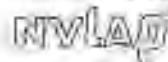
ARI Report # 16-62827
Date Collected: 03/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827-38 Cust. #: 0218 Material: 12x12 Grey Mottled Floor tile Location: NE Corner of Room B1 Appearance: grey, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827-38a Cust. #: 0218 Material: Mastic Location: NE Corner of Room B1 Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827-39 Cust. #: 0218 Material: 12x12 Cream Mottled Floor Tile Location: Kitchen Hall Appearance: brown, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%

For record keeping, each sample will be analyzed and documented.

Robert J. Letarte Jr., Laboratory Director

Test Method EPA 8000-B2/15 was used to analyze the above samples. Matrix interference under resolution times may yield alternative results in certain circumstances. Stuffed fiber (less than 1%) should be noted with SEM or TEM. This certificate of analysis results only to the sample tested and to assure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research and is not responsible for the accuracy of this results for layered samples or samples containing multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 1021140

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Bosh
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

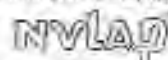
Alt Report # 10062827
Date Collected: 02/08/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 03/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 -39a Cust. #: 024A Material: Mastic Location: Kitchen Hall Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 62827 -40 Cust. #: 024B Material: 12x12 Cream Matted Floor Tile Location: Gym/Lockerroom Hall Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 62827 -40a Cust. #: 024B Material: Mastic Location: Gym/Lockerroom Hall Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

Asbestos samples submitted for PLM analysis only.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 8000, 8211K was used to analyze the above samples. Matrix interference and/or detection limits may yield false-negative results in certain circumstances. Suspect floor tiles containing >1% should be tested with SEM or TEM. This certificate of analysis is advisory to the samples tested and to assure the integrity of the information only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 1021 (3.4)



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:
Mr. Gary Hoste
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

ARI Report # 15-02827
Date Collected: 02/08/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/16/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 41 Cust. #: 025A Material: 2x4 LECT - Textured/Pinkies Location: Boy's Lockerroom Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 40% Other - 20%
Lab ID #: 62827 - 42 Cust. #: 025B Material: 2x4 LECT - Textured/Pinkies Location: Girl's Lockerroom Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 40% Other - 20%
Lab ID #: 62827 - 43 Cust. #: 026A Material: 2" Black Covebase Location: Gym/Lockerroom Hall Appearance: black, non fibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 806/8-93/16 was used to analyze the above samples. Matrix interference and/or excessive loads may yield false-negative results in certain circumstances. Suspect fiber lies containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and in no way the integrity of the results may only be represented in this. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for laboratory samples or samples containing unknown materials. Liability limited to cost of analysis.



NVLAP Lab Code: 02113.0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Host
Arch Environmental Group
17720 Interchange Drive
Farmington Hills, MI 48335

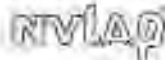
ARI Report # 16-02827
Date Collected: 02/08/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 44a Cust. #: 027A Material: Adhesive Location: Gym/Lockeroom Hall Appearance: brown, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827 - 44 Cust. #: 026B Material: 2" Black Ceylone Location: Kitchen Hall Appearance: black, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827 - 44a Cust. #: 027B Material: Adhesive Location: Kitchen Hall Appearance: yellow, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%

NOTE: Limited detection and quantization of asbestos are required by law.

Robert T. Letarte Jr., Laboratory Director

This Method EPA 821-R-92-016 was used to analyze the above samples. Matrix interference and/or exclusion levels may yield false-negative results in certain circumstances. Samples that may contain <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples listed and to ensure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NALAP or any agency of the U.S. Government. NALAP Research, Inc. is not responsible for the accuracy of the results for layered samples or samples composed of multiple materials. Liability limited in cost of analysis.



NALAP Lab Code 1021 (8-0)



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Bash
Arch Environmental Group
87720 Interchange Drive
Birmingham Hills, MI 48315

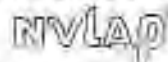
ARI Report #: 16-62825
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 45 Cont. #: 028A Material: 6" Black Corner Covebase Location: N. Wall of Gym Appearance: black, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827 - 45a Cont. #: 028A Material: Adhesive Location: N. Wall of Gym Appearance: beige, nonfibrous, homogeneous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827 - 46 Cont. #: 028B Material: 6" Black Corner Covebase Location: S. Wall of Gym Appearance: black, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%

Lab and Sample IDs are subject to change without notice.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 8200-R-01-16 was used to analyze the above samples. Matrix interference and detection limits may yield false negative results in certain circumstances. Support data files containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples listed and to the integrity of the results; may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples containing multiple materials. Likelihood of mixed layers of analysis.



NVLAP Lab Code: 1021340



Certificate of Laboratory Analysis

Test Method: Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Bosh
Arch Environmental Group
17770 Interchange Drive
Farmington Hills, MI 48331

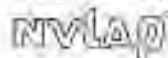
ARI Report #: 16-62837
Date Collected: 02/08/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 46a Cust. #: 02901 Material: Adhesive Location: S. Wall of Gym Appearance: yellow, nonfibrous, homogeneous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other: 100%
Lab ID #: 62827 - 47 Cust. #: 030A Material: Gym Wood Flooring Tar Paper Location: N. Wall of Gym Appearance: black, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose: 60% Other: 40%
Lab ID #: 62827 - 48 Cust. #: 030B Material: Gym Wood Flooring Tar Paper Location: S. Wall of Gym Appearance: black, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose: 60% Other: 40%

For Further Sample Analysis, Call (734) 449-9990

Robert T. Letane Jr., Laboratory Director

Test Method EPA 8000-R-03-116 was used to analyze the above samples. Matrix interferences with resolution limits may yield false negative results in certain circumstances. Suspect false flow containing <1% could be detected with SEM or TEM. This certificate of analysis relates only to the samples received and to ensure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by APEX Research or any agency of the US Government. APEX Research is not responsible for the accuracy of the results for material samples or samples containing multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code: 02118-0



Certificate of Laboratory Analysis

Test Method: Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:
Mr. Gary Bosh
Arch Environmental Group
7770 Interchange Drive
Farmington Hills, MI 48335

AEI Report #: 16-02827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 40 Cust. #: 031A Material: Mastie - Unknown Location: SW Corner of Room A6 Appearance: black fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 62827 - 50 Cust. #: 031B Material: Mastie - Unknown Location: SW Corner of Room B4 Appearance: black fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 62827 - 51 Cust. #: 032A Material: 12x12 ACT - White w/Uniform Holes Location: A5 Appearance: brown fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/8-92/010 was used to analyze the above samples. Micro interference which requires thin sections may yield false negative results in certain circumstances. Suspect fibers that containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples listed and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by MVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of test results for layered samples or samples containing multiple materials. Liability limited to cost of analysis.



MVLAP Lab Code 1021142



Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Bosh
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

ARI Report #: 16-62827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 52 Cust. #: 03218 Material: 12x12 ACT - White w/Uniform Holes Location: B6 Appearance: brown, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 62827 - 53 Cust. #: 03218 Material: Glue Pad for 12x12 ACT Uniform Holes Location: A5 Appearance: brown, amfibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 62827 - 54 Cust. #: 03218 Material: Glue Pad for 12x12 ACT Uniform Holes Location: B6 Appearance: brown, amfibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

Word Count: approximately 600 words

Rest Foot

Robert T. Letarte Jr., Laboratory Director

This Method EPA 8000-B-11-16 was used to analyze the above samples. Matrix interferences can be resolved using more yield (false-negative results in certain circumstances). Suspect floor tiles containing <1% lead should be tested with SEM or TFM. This certificate of analysis relates only to the samples tested and to assure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product enforcement by NPLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for typical samples or samples containing multiple materials. Liability limited to cost of analysis.



MSVT-AP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project # AE150838

Report To:

Mr. Gary Boole
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48333

Alt Report # 16-02827
Date Collected: 02/08/16
Date Received: 07/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 55 Cust. #: 035A Material: Window Glaze Location: Exterior Side - of A6 Appearance: grey, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 62827 - 56 Cust. #: 036B Material: Window Glaze Location: Exterior Side - of A6 Appearance: grey, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 62827 - 57 Cust. #: 036A Material: Window Caulk Location: Exterior Side - Window of A6 Appearance: grey, fibrous, homogeneous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 5%	Other - 95%

The Laboratory complies with requirements of NIOSH and is not a NIOSH-certified laboratory.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 8460/ 8461/15 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false negative results in certain circumstances. Suspended fibers containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to ensure the identity of the samples may only be reanalyzed in MI. This certificate may not be used by third parties to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for targeted samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code: 102116-0



Certificate of Laboratory Analysis

Test Method: Polarized Light Microscopy (PLM)

Project: Light of The World Academy
Project #: A6150838

Report To:

Mr. Gary Bosh
Arch Environmental Group
57120 Interchange Drive
Farmington Hills, MI 48335

ARL Report #: 16-62817
Date Collected: 07/06/16
Date Received: 02/08/16
Date Analyzed: 07/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 58 Cont. #: 036B Material: Window Caulk Location: Exterior Side - of Br Appearance: Layer: 0 of 1	Asbestos Present: NOT ANALYZED	
Lab ID #: 62827 - 59 Cont. #: 037A Material: Door Caulk Location: Exterior Doors Appearance: brown/fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO Chrysotile - Trace POINT COUNT RESULT	Other - 100%
Lab ID #: 62827 - 60 Cont. #: 037B Material: Door Caulk Location: Exterior Doors Appearance: brown/fibrous, homogeneous Layer: 1 of 1	Asbestos Present: NO Chrysotile - 0.25% POINT COUNT RESULT	Fiber - 99.75%

This report is the property of APEX Research, Inc. and is not to be distributed outside the company.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/4-90/015 was used to analyze the above samples. Misuse of methods and/or results may lead to false negative results in certain circumstances. Based on results indicating 0% should be noted with SEM or TEM. This certificate/analysis relates only to the sample tested and to assure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research, Inc. is not responsible for the accuracy of the results for samples submitted as unknown materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Light of The World Academy
Project # AL150838

Report To:
Mr. Gary Bosh
Arch Environmental Group
37720 Interchange Drive
Farmington Hills, MI 48335

ARI Report # 16-62827
Date Collected: 02/06/16
Date Received: 02/08/16
Date Analyzed: 02/10/16
Date Reported: 02/10/16

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 62827 - 61 Cust. #: 0130 Material: Hard Plaster - Finish Coat Location: Appearance: white, nonfibrous, homogeneous Layer: 1 of 2	Asbestos Present: NO (No Asbestos Observed)	Other: 100%
Lab ID #: 62827 - 61a Cust. #: 0140 Material: Base Coat Location: Appearance: grey, amorphous, homogeneous Layer: 2 of 2	Asbestos Present: NO (No Asbestos Observed)	Other: 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present	

For Lab Use Only: (Do not remove this section) Add results to database

Robert T. Lefarte Jr., Laboratory Director

Test Method EPA 8000-R-93/118 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Samples containing >1% should be tested with SEM/EDS. This certificate of analysis applies only to the samples tested and to assure the integrity of the results, may only be reprinted in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP 125-6006-102118-0

62827

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449-9990, Fax (734) 449-9991.

Web Site: <http://www.apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.com

Customer Name: Arch Environmental Group, Inc.

Address: 37720 Interchange Drive

City, St., Zip: Farmington Hills, MI 48335

Phone: (248) 426-0165

Fax: (248) 427-0305

Date of Survey: 2-6-16

Project: Light of The World Academy

Project # AE150838

Contact Person: Gary C Book

Email: labs@archenvgroup.com

Lab Use Only

Log-in: _____

Report: _____

Fax: _____

Verbal: _____

Email: _____

Turn Around Times: (Circle One)

Rush

24 hour

48 hour

72 hour

Other: _____

TIP yes no

(Test Till Positive)

*Note: Test Till Positive for all asbestos bulk samples unless TEM; otherwise noted.

Asbestos:

Bulk

X

Wipe

Lead:

Bulk

Wipe

Mold:

Bulk

Tape

Bulk/NOF

AHERA

Point Count

PCM

Air

Paint

Soil

BioSIS

Other

Viable

RPA Level II

Other

***Terms and conditions on the other side

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	001/002 A	C/A, 4" Blue / west wall of room A6			
2	B	/ South wall of room C9			
3	003/004 A	FTM, 12" x 12", white w/ Gray streaks / NW corner of room A9			
4	B	" " / NW corner of room A8			
5	005 A	LICT, 2' x 2', Deep Gorge / SW corner of Ceiling in room A4			
6	B	" " / NW corner of Ceiling in Cafeteria			
7	006 A	ACT, 12" x 12", Dots + Deep Gorge / West Hall of Main Hall			
8	B	" " / East Hall of Main Hall			
9	007 A	ADHESIVE (Gypsum) for ACT, 12" x 12", Dots + Deep Gorge / West Hall of Main Hall			
10	B	" " / East Hall of Main Hall			
11	008 A	Plaster board Dark / west Hall of Main Hall			

Relinquished By: [Signature]

Date: 2/8/16

Revision: 0002011

Received By: [Signature]

Date: 3/30

Relinquished By: _____

Date: _____

RECEIVED

Date:

FEB 08 2016

* Point Count Less than 1% *

APEX RESEARCH

62827

APEX Research, Inc.

11054 Mt Tech Drive, Whitmore Lake, MI 48189, Phone: (734) 449-9990, Fax (734) 449-9991
Web Site: <http://apexresearch-lab.com>, Email: Bob.Letarte@apexresearchlab.com

Customer Name: Arch Environmental Group, Inc.

Address: 37720 Interchange Drive

City, St., Zip: Farmington Hills, MI 48335

Phone: (248) 426-0165

Fax: (248) 427-0305

Date of Survey: 2-6-16

Project: Light at The World Academy

Project # AE150837

Contact Person: Gary C. B. A.

Email: labs@archenvgroup.com

Lab Use Only

Log-In: _____

Report: _____

Fax: _____

Version: _____

Email: _____

Turn Around Times: (Circle One)

Rush: 24 hour

1-2 hour: 72 hour

Order: TIF yes no

(Test TIF Positive)

*Note: Test TIF Positive for all asbestos bulk samples unless TEM: otherwise noted.

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

***Terms and conditions on the other side.

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
12	008 B	Plaster board Deck / East Hall of main Deck			
13	009 A	Window Calk, Exterior Windows	Interior Side Group / window in Room 63		
14	B	"	"	/ window in Room 47	
15	010 A	Adhesive (Glue) for Chalk Board / Room A9			
16	D	"	/ Room A8		
17	011 A	Adhesive (Glue) for Chalk Board / Room A7			
18	B	"	/ Room A4		
19	012 A	Straw like Pipe Insulation, millboard / Small Entry Closet			
20	B	"	/ Small Room		
21	C	"	/ North Boiler Room		

Relinquished By: Hy an

Date: 2/8/16

Project: 150837

Received By: R. B. Smith

Date: _____

Relinquished By: _____

Date: _____

Relinquished By: _____

Date: _____

* Point Count Less than 1% *

FEB 18 2016

2827

APEX Research, Inc.

11034 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449-9990, Fax (734) 449-9991.

Web Site: <http://apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.com



Customer Name: Arch Environmental Group, Inc.
Address: 37720 Interchange Drive
City, St., Zip: Farmington Hills, MI 48335
Phone: (248) 426-0165 Fax: (248) 427-0305

Date of Survey: 2-6-16
Project: Light as the World Academy
Project # AE150838
Contact Person: Gary C. Bell
Email: labs@archenvgroup.com

Lab Use Only
Log-In: _____
Report: _____
Fax: _____
Verbal: _____
Email: _____

Turn Around Times: (Circle One)

24hr 24 hour 48 hour 72 hour
Other: TTP yes / no (Test Till Positive)
Asbestos: Bulk X Wipe _____ Paint Count _____ PCM _____
Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

*Note: Test Till Positive for all asbestos bulk samples unless TEM; otherwise noted.

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
22	013/014 A	Hard plaster, Ceiling, Smooth Finish	Finish coat + Base coat	Girls Rest Room	
23	B	"	"	Boys Rest Room	
24	015 A	Door Caulk, Interior Door, white	Door at North Bulw Room		
25	B	"	"	Door at Kitchen Hall	
26	016 A	Drywall / South Janitor Closet			
27	B	"	Side Room		
28	017 A	Drywall / South Janitor Closet			
29	B	"	Store Room		
30	018 A	Drywall / South Janitor Closet			
31	B	"	Store Room		
32	019 A	PPFI on Fiberglass Lines	Room A-7		

Relinquished By: [Signature]
Date: 2/8/16
Method Date: Handwritten

Received By: [Signature]
Date: _____

Relinquished By: _____
Date: _____

RECEIVED
Relinquished By: _____
Date: 02.08.2016

* Point Count Less, than 1% *

APEX RESEARCH

62827

APEX Research, Inc.

11054 N. Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449-9990, Fax (734) 449-9991.

Web Site: <http://apexresearch-inc.com>. Email: Bob.Letaris@apexresearchlab.com

Customer Name: Arch Environmental Group, Inc.

Address: 37720 Interchange Drive

City, St., Zip: Farmington Hills, MI 48335

Phone: (248) 426-0165

Fax: (248) 427-0505

Date of Survey: 2-6-16

Project: Light at the World Academy

Project # AE150838

Contact Person: Gary C. Bond

Email: ghs@archenvgroup.com

Lab Use Only

Log-In: _____

Report: _____

Fax: _____

Verbal: _____

Email: _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Crash: TTP yes co

(Test Till Failure)

*Note: Test Till Failure for all asbestos bulk samples unless TEM: otherwise noted.

Asbestos: Bulk X Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Bell _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

***Terms and conditions on the other side.

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
33	019 B	RPFI on Fiberglass Lines /	1 can	AB	
34	C	" " /	1 can	Boiler Room	
35	020 A	Lib Table Top Black /	ACT	can B3	
36	B	" " /	ACT	can B3	
37	021/022 A	FTM, 12" x 12" Gray mortar /	1 can	corner of can B3	
38	B	" " /	1 can	NE corner of can B3	
39	023/024 A	FTM, 12" x 12" Cream mortar /	1 can	Kitchen Hall	
40	B	" " /	1 can	Gym/Locker Room Hall	
41	025 A	LIC, 7' x 9', Textured Pin Holes /	1 can	Boys Locker Room	
42	B	" " /	1 can	Girls Locker Room	
43	026/027 A	C/A, 2" Black /	1 can	Gym/Locker Room Hall	

Relinquished By: John C. Bond

Date: 2/8/16

Arch Env Group

Received By: Bob Letaris

Date: _____

Relinquished By: _____

Date: _____

Relinquished By: _____

Date: FEB 03 2016

* Point Count Less, less 1% *

APEX RESEARCH

62837

APEX Research, Inc.

11064 Hi Tech Drive, Whitnore Lake, MI 48189. Phone: (734) 449-9990, Fax (734) 449-9991.

Web Site: <http://apexresearch-inc.com>, Email: Bob.Lewis@apexresearch-lab.com

Customer Name: Arch Environmental Group, Inc.

Address: 37720 Interchange Drive

City, St., Zip: Farmington Hills, MI 48335

Phone: (248) 426-0165

Fax: (248) 427-0305

Date of Survey: 2-6-16

Project: Light & The World Academy

Project # AE150838

Contact Person: Gary C. Bell

Email: labs@archenvgroup.com

Lab Use Only

Log-In: _____

Report: _____

Fax: _____

Verbal: _____

Email: _____

Turn Around Times: (Circle One)

Flash

24 hour

Asbestos:

Bulk

X

Wipe

Point Count

PCM

48 hour

72 hour

Lead:

Bulk

Wipe

Air

Paint

Soil

Other:

TIP yes no

Mold:

Bulk

Tape

Biosis

Other

Viable

*Note: Test till Positive for all asbestos bulk samples unless TEM; otherwise noted.

Bulk/NOP

AHERA

EPA Level II

Other

**Terms and conditions on the other side.

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
44	026/027 B	C/A, 2", Black / From Kitchen	1	Wall	
45	028/029 A	C/A, Green Carbons, 6", Black / N wall of Gym	1		
46	B	" "	1	Small of Gym	
47	030 A	Gym wood flooring, Tapered / Acoustic / Wall of Gym	1		
48	B	" "	1	Small of Gym	
49	031 A	Unknown Plastic, Black / Sw Corner of Room 46	1		
50	B	" "	1	Sw Corner of Room 44	
51	032 A	ACT, 12" x 12", Uniform Holes / A5	1		
52	B	" "	1	B6	
53	033 A	Adhesive (Gluepot) From ACT 12" x 12" Uniform Holes / A5	1		
54	B	" "	1	B6	

Relinquished By: John

Date: 2-8-16

Revised Date: Jan 2013

Received By: Robert

Date: _____

Relinquished By: _____

Date: _____

Relinquished By: _____

Date: _____

2-8-16

* Point Count Less, in 1% *

62827

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449-9993, Fax (734) 449-5991.

Web Site: <http://apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.comCustomer Name: Arch Environmental Group, Inc.Address: 37720 Interchange DriveCity, St., Zip: Farmington Hills, MI 48335Phone: (248) 425-0165Fax: (248) 427-0305Date of Survey: 2-6-16Project: Light of The World AcademyProject # AE150838Contact Person: Gary C. BondEmail: lacs@archenvgroup.com

Lab Use Only

Log-in: _____

Report: _____

Fax: _____

Verbal: _____

Email: _____

Turn Around Times: (Circle One)

Rush: _____

24 hour

Asbestos: _____

Bulk X

Wipe _____

Point Count _____

PCM _____

48 hour _____

72 hour _____

Lead: _____

Bulk _____

Wipe _____

Air _____

Paint _____

Soil _____

Other: _____

TTP yes / no

Mold: _____

Bulk _____

Tape _____

BioSIS _____

Other _____

Visible _____

*Note: Test TTP Positive for all asbestos bulk samples unless TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____
otherwise noted

Bulk/NOP _____

AHERA _____

EPA Level II _____

Other _____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
55	035A	Window Glass, Exterior Windows	Exterior Side, Gray	Exterior window of 46	
56	B	" "	" "	Exterior window of B6	
57	036A	Window Caulk, Exterior Windows	Exterior Side, Gray	Exterior window of 46	
58	B	" "	" "	Exterior window of B6	
59	037A	Door Caulk, Exterior Door	White	Exterior Door	
60	B	" "	" "	Exterior Door	
61	013/014				

Relinquished By: [Signature]Date: 2-8-16

Expiry Date: 3/31/2017

Received By: [Signature]

Date: _____

Relinquished By: _____

Date: _____

Relinquished By: _____

Date: 2-8-2016

* Point Count Less than 1% *

APEX Research

APPENDIX E Inspector Credentials

INSPECTOR CREDENTIALS

This appendix provides information regarding the Accredited Asbestos Inspectors who inspected the asbestos-containing materials and collected asbestos bulk samples.

Date of Inspection: February 6, 2016
Building Name and Address: Lights of the World Academy
350 E. Hamburg St.
Piquette, MI 48169

Name of Accredited Inspector: Gary C. Bosh
State of Accreditation: Michigan
Accreditation Number: A33379
State Accreditation Expiration Date: March 1, 2017
Training Institute: ETC Training Services Group
Training Certificate Expiration Date: September 22, 2016

Signature of Accredited Inspector:



Copies of current State of Michigan Accreditation Cards and training certificates are located on the following page.



NOVA ENVIRONMENTAL GROUP
 5300 PLYMOUTH ROAD
 ANN ARBOR, MI 48105
 (734) 462-9887

Gary Bosh

Accredited Asbestos Inspector

State: Michigan
 Accreditation Number: A33379
 Accreditation Expiration Date: March 1, 2016
 Training Provider: Nova Environmental
 Training Expiration Date: September 2, 2015

Signature:



Asbestos Inspector

Gary Bosh
 c/o Nova Environmental, Inc.
 5300 Plymouth Road
 Ann Arbor, MI 48105

Accreditation Number: A33379
 Expiration Date: 03/01/2016



ICAT: 03/25/1972

This certification is valid only if the holder has completed the required training and testing and is in good standing with the Michigan Department of Licensing and Regulatory Affairs.

Registration Number: 114518

DETROIT
 (734) 426-0165
 Farmington Hills, MI

CHICAGO
 (847) 462-9887
 Gary, IL

CADILLAC
 (231) 878-1892
 Cadillac, MI

Certificate Number: 174527 - 14131

ETC Training Services Group

38900 W. Huron River Drive

Romulus, MI 48174-1159

(734) 955-6600

PRESENTS

Gary C. Bosh

SEP: -6600

with certification for having successfully completed the 4 hours which meets the requirements for

Asbestos Inspector Refresher Training Course

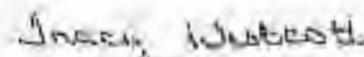
Complying with the requirements of MI Public Act 440 of 1988 as amended, OSHA 29 CFR 1926.1101 & 40 CFR Part 763 (AHERA) as required under Title II of the Toxic Substances Control Act (TSCA)

Course Dates: September 22, 2015

Expiration Date: September 22, 2016



Trainer



ETC President