

LIMITED HAZARDOUS MATERIALS ASSESSMENT REPORT

**HVAC Renovation Project
Main Columbus Metropolitan Library
96 South Grant Avenue
Columbus, Ohio 43215**

(L&A Project #: 23-0026)



Prepared for:

**Ryan P. Drake
Operations Manger
Columbus Metropolitan Library
96 S. Grant Avenue
Columbus, Ohio 43215
(614) 849-1082**

Prepared by:

**Lawhon & Associates, Inc.
1441 King Avenue
Columbus, Ohio 43212
(614) 481-8600**

February 09, 2023



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Limited Hazardous Material Assessment Report

HVAC Renovation Project

Columbus Metropolitan Library

1.0 Introduction

On February 2, 2023, Lawhon & Associates, Inc. (L&A) conducted a limited hazardous material assessment of the Columbus Metropolitan Library (CML) located at 96 South Grant Avenue, Columbus, Ohio 43215. The assessment was conducted by Mr. Domanic Martin, (Ohio Environmental Protection Agency Certified Asbestos Hazard Evaluation Specialist (AHES) #35856) and Mr. Jordan Mederer (OEPA CAHES (AHES) #35005) of L&A. The consultant's certifications are attached in **Appendix A**.

The purpose of the assessment was to determine the presence of asbestos containing materials prior to the proposed renovations. L&A was escorted by Mr. Ryan Drake of CML of all areas projected to be impacted by the scope of work. L&A conducted a limited hazardous material assessment survey, specifically pertaining to the HVAC Renovation Project. This report conforms to the requirements of the EPA NESHAPs prior to renovation for this project. This report should not be construed as a remediation design or used for bidding purposes.

2.0 Asbestos Containing Materials

Asbestos containing materials are governed the Environmental Protection Agency's (EPA) National Emission Standards of Hazardous Air Pollutants (NESHAP) during a renovation and/or demolition. These materials are defined as containing greater than one percent asbestos. The Occupational Safety and Health Administration (OSHA) govern building materials containing any amount of asbestos.

The Clean Air Act (CAA) of 1970 required the EPA to develop and enforce regulations to protect the general public from exposure to airborne contaminants that are known to be hazardous to human health; therefore, EPA promulgated the National Emission Standards for Hazardous Air Pollutants (NESHAP) (Title 40, CFR Part 61) on April 6, 1973. NESHAP is intended to minimize the release of asbestos fibers during certain activities (i.e., renovations, demolition, and installations). It specifies work practices to be followed during renovations of buildings (except apartment buildings that have no more than four dwelling units), which contain a specific amount of friable asbestos. NESHAP requires that buildings be inspected for asbestos containing building materials (ACBM) prior to renovation/demolition projects.

NESHAP also requires owners and operators subject to the asbestos rules to notify delegated state and local agencies and/or the regional EPA offices before demolition or renovation activities begin. In addition, NESHAP requires the removal of all regulated asbestos containing materials (RACM) prior to demolition. Regulated Asbestos-Containing Materials (RACM) are (a) friable asbestos material, which are materials easily reduced to powder with hand pressure (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, abrading, or broken into pieces smaller than four square inches or (d) Category II non friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations. Category I non-friable materials consist of materials such as resilient floor covering products, roofing products, gaskets, and packing. Category II non-friable materials consist of all other non-friable materials such as transite and drywall. NESHAP also requires all ACM (including Category I and II) be removed prior to intentional burning, such as for a fire department training exercise.

The Ohio Environmental Protection Agency (OEPA) regulates asbestos activities within the state. Professionals performing asbestos related activities must be certified/licensed by OEPA.

2.1 Methodology

A list of suspect ACMs was compiled from the investigation of the work area(s). Materials were categorized into RACM, Category I, and Category II materials. L&A inventoried and procured confirmatory samples of materials that must be removed prior to renovation activities.

Materials suspected of containing asbestos were grouped into homogeneous areas for bulk sampling purposes. A homogeneous area is composed of specific material that appears to be the same in color, texture, date of installation or location (e.g., grey spray-applied fireproofing in a specific construction unit).

The number of bulk samples to be procured for each identified homogeneous area of suspected Surfacing Materials, Thermal System Insulations, and Miscellaneous Materials were determined in accordance with 40 CFR 763.

Specifically, Friable and Nonfriable Surfacing Materials (i.e., fireproofing, acoustical plaster, decorative plaster, hard plaster, and textured coatings) were sampled following the guidelines set forth by the USEPA in the document "Asbestos in Buildings - Simplified Sampling Scheme Friable Surfacing Materials." Based upon the square footage of the homogenous surfacing materials, either a minimum of 3, 5, or 7 bulk samples were randomly procured and analyzed. For Thermal System Insulation (TSI), at least 3 random samples of each homogeneous area of TSI were procured and analyzed and 1 sample of patched TSI if it was <6 linear or square feet. For Miscellaneous Materials (MM), at least 2 random samples of each homogeneous area of MM were procured and analyzed.

Bulk sample locations for suspect materials sampled by L&A, and the name and signature and asbestos hazard evaluation specialist number of each person who collected samples are shown on the Asbestos Bulk Sample Diagram found in **Appendix B**.

Samples were placed into clean sealed containers and identified with a unique sample number. Sampling tools were decontaminated between each sampling episode.

All samples were sent to certified National Voluntary Lab Accredited Program laboratories. The lab utilized for bulk sample Polarized Light Microscopy (PLM) analysis for this assessment was SanAir Technologies Laboratory, SATL (NVLAP #600227-0) located at 11709 Chesterdale Road, Cincinnati, Ohio 45246. Samples were analyzed by the EPA Polarized Light Microscopy (PLM) 600 Method. Samples reported with low concentrations of asbestos, <3% asbestos content, were reanalyzed using the EPA Point Count Method to determine a more accurate content.

3.0 Asbestos Containing Materials Results

The following tables present asbestos containing materials summaries and information. Detailed summaries, including locations and quantities of all materials sampled and projected to be impacted may be found in **Appendix C**. Asbestos laboratory analysis certificates and chain of custody information may be found in **Appendix D**.

3.1 Confirmed Asbestos Containing Materials

No materials sampled during the limited hazardous material assessment survey for the HVAC Renovation Project were confirmed to be asbestos containing materials.

3.2 Assumed Asbestos Containing Materials

No materials were assumed during the limited hazardous material assessment survey for the HVAC Renovation Project.

3.3 Non-Asbestos Containing Materials

The following are lists of materials sampled with laboratory analysis revealing No Asbestos Detected (NAD). Reference **Appendices C and D** for sample information and laboratory data. Any encountered materials not listed below or listed in the tables above should be assumed to contain asbestos until further sampling determines otherwise.

Non-Asbestos Containing Materials	
Fireproofing	Sheet Flooring and Mastic
2'x4' White Ceiling Panel with Smooth Finish	AHU Vertical Panel Caulking I
Perimeter Caulking Within AHU	AHU Vertical Panel Caulking II
White Sealant on Floor Membrane	Sealant on Floor Membrane 2 nd Layer
Off-White Putty	Fiberglass Duct Lining Coating
Interior Caulking Withing AHU	Light Tan Caulking on Square Duct
Brown Duct Mastic on Round Duct	Gold Duct Mastic on Square Duct

4.0 Conclusions

As a result of the inspection for asbestos containing materials conducted on February 02, 2023, no asbestos containing materials were identified which will be disturbed by the upcoming HVAC Renovation Project. This report conforms to the requirements of the EPA NESHAP prior to renovation.

This report conforms to the requirements of the EPA NESHAPs prior to renovation for this project. Changing the scope of work may require additional assessment by a licensed asbestos hazard evaluation specialist. This report should not be construed as a remediation design or used for bidding purposes. If you have any further questions please contact Jordan Mederer.

Sincerely,



Domanic Martin, AHES 35856
Asbestos and Lead Specialist



Jordan Mederer, AHES 35005
HBM Department Manager

APPENDIX A

Inspector's Certifications

The InService Training Network

Asbestos Building Inspector and Management Planner Refresher Courses



Domanic Martin

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 705D Lakeview Plaza Blvd, Worthington, OH 43085 (614) 436-0980

Course Dates: July 6, 2022

Examination Date: July 6, 2022

Course Instructor: 
Frank Rowe

Course Location: Worthington, Ohio

Expiration Date: July 6, 2023

Certificate Numbers: ITNIR7271 & ITNMPR7271



Mike DeWine, Governor
Jon Husted, Lt. Governor
Anne M. Vogel, Director

1/11/2023

Domanic Martin
Lawhon & Associates, Inc.
1441 King Avenue
Columbus, OH 43212

RE: Evaluation Specialist
Certification Number: ES35856
Expiration Date: 1/13/2024

Dear Domanic Martin:

This letter and enclosed certification card approves your request to be certified as an asbestos Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Ohio Environmental Protection Agency (EPA) for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please contact the Asbestos Program at 614-644-0226 or by email at asbestoslicensing@epa.ohio.gov.

Sincerely,

Brandon M. Schwendeman

Brandon Schwendeman
Manager, Business Operations Support Section
Ohio EPA - Division of Air Pollution Control



10 • P.O. Box 1049 • Columbus, OH 43216-1049
4) 644-3020 • (614) 644-3184 (fax)

The InService Training Network

Asbestos Building Inspector and Management Planner Refresher Courses



Jordan Mederer

has successfully completed the Asbestos Building Inspector and Management Planner Refresher Courses and passed by at least 70% the course examinations for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2 Provided by: The InService Training Network, Inc., 705D Lakeview Plaza Blvd, Worthington, OH 43085 (614) 436-0980

Course Dates: April 20, 2022

Examination Date: April 20, 2022

Course Director: _____

Course Location: Worthington, Ohio

Kurt Varga

Expiration Date: April 20, 2023

Certificate Numbers: ITNIR7243 & ITNMPR7243

ITN

ITN



Mike DeWine, Governor
Jon Husted, Lt. Governor
Laurie A. Stevenson, Director

7/14/2022

Jordan Mederer
Lawhon & Associates, Inc.
1441 King Avenue
Columbus, OH 43212

RE: Evaluation Specialist
Certification Number: ES35005
Expiration Date: 8/8/2023

Dear Jordan Mederer:

This letter and enclosed certification card approves your request to be certified as an asbestos Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Ohio Environmental Protection Agency (EPA) for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please contact the Asbestos Program at 614-644-0226 or by email at asbestoslicensing@epa.ohio.gov.

Sincerely,

Joshua S. Koch
Manager, Business Operations Support Section
Ohio EPA - Division of Air Pollution Control

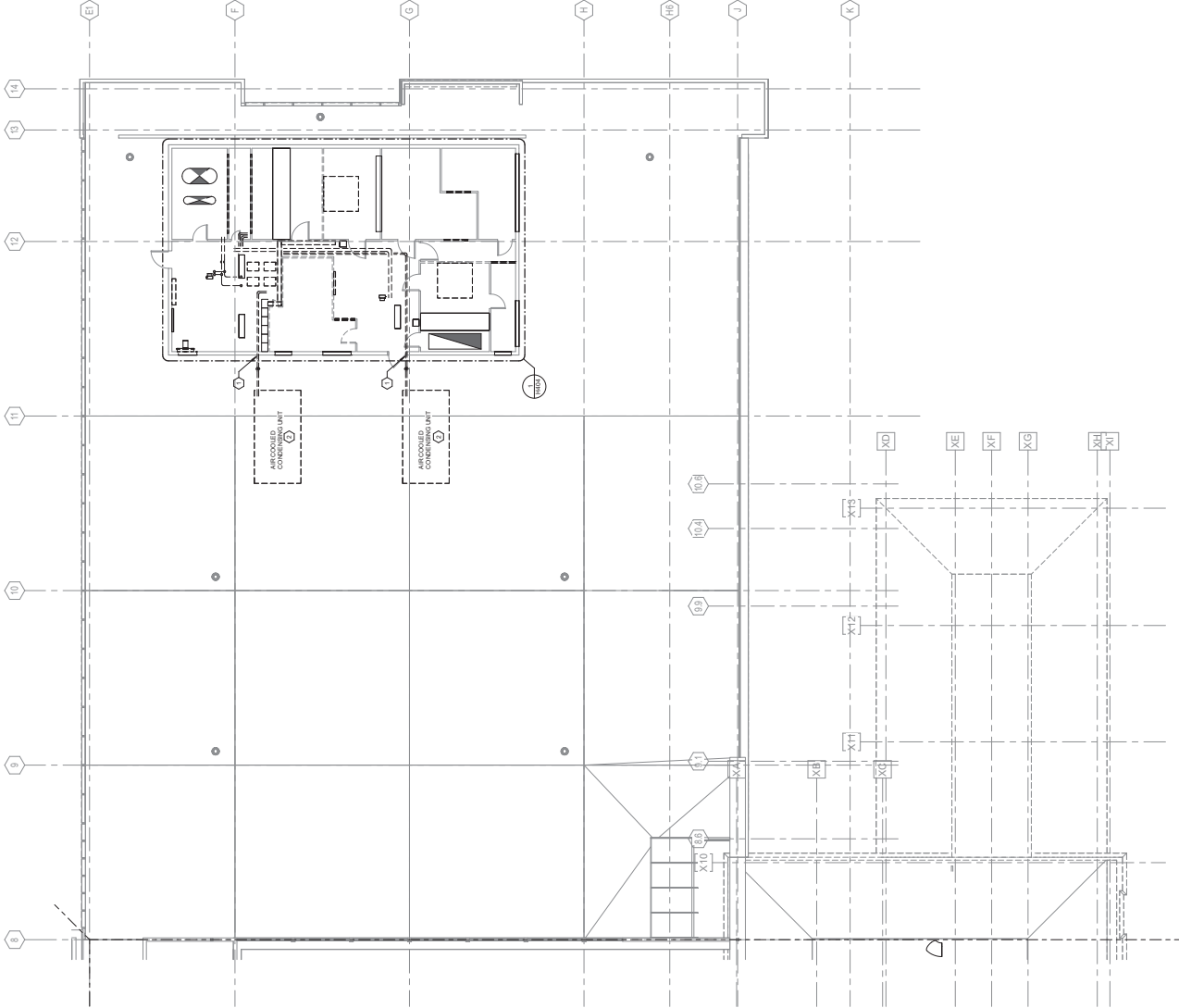


APPENDIX B

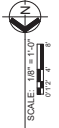
Site Diagram & Asbestos Bulk Sample Location Diagram

GENERAL NOTES

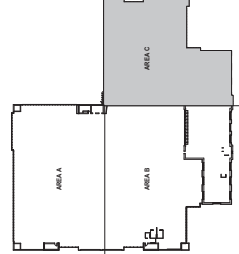
1. REMOVE EXISTING REINFORCEMENT LINES AND PATCH EXTERIOR WALL
2. REMOVE EXISTING ROOF STRUCTURE AND PATCH EXTERIOR WALL DOWN TO TOP OF ROOF. ROOFING CONTRACTOR SHALL FORM WALL ROOF FINISH.



1 ROOF PLAN
REMOVAL AREA C



KEY PLAN



No.	Description	Date

COLUMBUS METROPOLITAN LIBRARY
 1000 Columbus Avenue
 Columbus, OH 43215

AIR HANDLING UNIT REPLACEMENT

KORDA
 Korda/Neumann Engineers, Inc. - Consulting Engineers
 1000 Columbus Avenue, Suite 200
 Columbus, OH 43215-1910

PROJECT STATUS: **ISSUED FOR PERMIT**

PROJECT NUMBER: **2022-0212**

DRAWN BY: **Dave Blach** DATE: **10/26/2022**

CHECKED BY: **Stephen Walsh**

H104C



APPENDIX C

Asbestos Bulk Sample Summary

ASBESTOS BULK SAMPLE SUMMARY
Columbus Metropolitan Library
HVAC Renovations

Sample Number	Homo g. Area #	Material Sampled	Sample Location	Percent Asbestos
1	1	Fireproofing	2 nd Floor Atrium by Elevator	NAD
2	1	Fireproofing	2 nd Floor Atrium by Elevator	NAD
3	1	Fireproofing	2 nd Floor Atrium by Elevator	NAD
4	2	2'x4' White Ceiling Panel with Smooth Finish	2 nd Floor Atrium by Elevator	NAD
5	2	2'x4' White Ceiling Panel with Smooth Finish	2 nd Floor Hallway to Carnegie	NAD
6	3	Sheet Flooring and Mastic-Sheet Flooring	AHU-6	NAD
	3a	Sheet Flooring and Mastic-Mastic		NAD
	3b	Sheet Flooring and Mastic-Leveler		NAD
7	3	Sheet Flooring and Mastic-Sheet Flooring	AHU-6	NAD
	3a	Sheet Flooring and Mastic-Mastic		NAD
	3b	Sheet Flooring and Mastic-Leveler		NAD
8	4	Vertical Panel Caulking I	AHU-1	NAD
9	4	Vertical Panel Caulking I	AHU-3	NAD
10	5	Vertical Panel Caulking II	AHU-2	NAD
11	5	Vertical Panel Caulking II	AHU-2	NAD
12	6	Perimeter Caulking	AHU-2	NAD
13	6	Perimeter Caulking	AHU-2	NAD

Bold text denotes an Asbestos Containing Material; as defined by EPA and OSHA.

Italic Text denotes an Asbestos Containing Material; as defined by OSHA only.

Legend

Abbreviation: NAD
Definition: No Asbestos Detected

Abbreviation: PC
Definition: Point Count Method Performed

ASBESTOS BULK SAMPLE SUMMARY
Columbus Metropolitan Library
HVAC Renovations

Sample Number	Homo g. Area #	Material Sampled	Sample Location	Percent Asbestos
14	7	White Sealant on Floor Membrane-Sealant	AHU-2	NAD
	7a	White Sealant on Floor Membrane-Membrane		NAD
15	7	White Sealant on Floor Membrane-Sealant	AHU-2	NAD
	7a	White Sealant on Floor Membrane-Membrane		NAD
16	8	Sealant on Floor 2 nd Layer Membrane-Sealant	AHU-2	NAD
17	8	Sealant on Floor 2 nd Layer Membrane-Sealant	AHU-2	NAD
18	9	Off-White Putty	AHU-3	NAD
19	9	Off-White Putty	AHU-3	NAD
20	10	Fiberglass Duct Lining Coating	AHU-5	NAD
21	10	Fiberglass Duct Lining Coating	AHU-5	NAD
22	11	Interior Caulking	AHU-6	NAD
23	11	Interior Caulking	AHU-6	NAD
24	12	Light Tan Caulking on Square Duct	AHU-6	NAD
25	12	Light Tan Caulking on Square Duct	AHU-6	NAD
26	13	Brown Duct Mastic on Round Duct	AHU-6	NAD
27	13	Brown Duct Mastic on Round Duct	AHU-6	NAD
28	14	Gold Duct Mastic on Square Duct	AHU-6	NAD
29	14	Gold Duct Mastic on Square Duct	AHU-6	NAD

Bold text denotes an Asbestos Containing Material; as defined by EPA and OSHA.

Italic Text denotes an Asbestos Containing Material; as defined by OSHA only.

Legend

Abbreviation: NAD
Definition: No Asbestos Detected

Abbreviation: PC
Definition: Point Count Method Performed

APPENDIX D

Asbestos Laboratory Analysis Certificates

&

Chain of Custody



The Identification Specialists

Analysis Report
prepared for
Lawhon & Associates, Inc.

Report Date: 2/7/2023

Project Name: CML HVAC Reno

Project #: 23-0026

SanAir ID#: 23006933



NVLAP LAB CODE 600227-0

11709 Chesterdale Road | Cincinnati, Ohio 45246
888.895.1177 | 513.438.6006 | IAQ@SanAir.com | SanAir.com



SanAir ID Number
23006933
FINAL REPORT
2/7/2023 10:38:07 AM

Name: Lawhon & Associates, Inc.
Address: 1441 King Ave
Columbus, OH 43212
Phone: 614-481-8600 ext. 142

Project Number: 23-0026
P.O. Number:
Project Name: CML HVAC Reno
Collected Date: 2/2/2023
Received Date: 2/3/2023 10:00:00 AM

Dear Jordan Mederer,

We at SanAir would like to thank you for the work you recently submitted. The 29 sample(s) were received on Friday, February 03, 2023 via UPS. The final report(s) is enclosed for the following sample(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Daigneault".

Matthew Daigneault
Asbestos Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:
- 29 samples in Good condition.



SanAir ID Number
23006933
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 2/7/2023 10:38:07 AM

Name: Lawhon & Associates, Inc.
Address: 1441 King Ave
 Columbus, OH 43212
Phone: 614-481-8600 ext. 142

Project Number: 23-0026
P.O. Number:
Project Name: CML HVAC Reno
Collected Date: 2/2/2023
Received Date: 2/3/2023 10:00:00 AM

Analyst: Scales, Sean

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
1 / 23006933-001 Fireproofing, 2nd Fl Atrium by Elevator	Beige Non-Fibrous Homogeneous	10% Cellulose 1% Glass	89% Other	None Detected
2 / 23006933-002 Fireproofing, 2nd Fl Atrium by Elevator	Beige Non-Fibrous Homogeneous	10% Cellulose 1% Glass	89% Other	None Detected
3 / 23006933-003 Fireproofing, 2nd Fl Atrium by Elevator	Beige Non-Fibrous Homogeneous	10% Cellulose 1% Glass	89% Other	None Detected
4 / 23006933-004 2x4 CP Smooth Finish, 2nd Fl Atrium by Elevator	Tan Fibrous Heterogeneous	25% Cellulose 55% Min. Wool	20% Other	None Detected
5 / 23006933-005 2x4 CP Smooth Finish, 2nd Fl Hallway to Carnegie	Grey Fibrous Heterogeneous	25% Cellulose 55% Min. Wool	20% Other	None Detected
6 / 23006933-006 Sheet Fl + M, AHU-6, Sheet Flooring	Grey Non-Fibrous Homogeneous		100% Other	None Detected
6 / 23006933-006 Sheet Fl + M, AHU-6, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
6 / 23006933-006 Sheet Fl + M, AHU-6, Leveler	White Non-Fibrous Homogeneous		100% Other	None Detected
7 / 23006933-007 Sheet Fl + M, AHU-6, Sheet Flooring	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7 / 23006933-007 Sheet Fl + M, AHU-6, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 2/3/2023

Date: 2/7/2023



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23006933
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Name: Lawhon & Associates, Inc.
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Project Number: 23-0026
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Project Name: CML HVAC Reno
Collected Date: 2/2/2023
Received Date: 2/3/2023 10:00:00 AM

Analyst: Scales, Sean

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7 / 23006933-007 Sheet FI + M, AHU-6, Leveler	White Non-Fibrous Homogeneous		100% Other	None Detected
8 / 23006933-008 Vert Panel Caulking I, AHU-1	Grey Non-Fibrous Homogeneous		100% Other	None Detected
9 / 23006933-009 Vert Panel Caulking I, AHU-3	Grey Non-Fibrous Homogeneous		100% Other	None Detected
10 / 23006933-010 Vert Panel Caulking II, AHU-2	Grey Non-Fibrous Homogeneous		100% Other	None Detected
11 / 23006933-011 Vert Panel Caulking II, AHU-2	Grey Non-Fibrous Homogeneous		100% Other	None Detected
12 / 23006933-012 Perimeter Caulking, AHU-2	Grey Non-Fibrous Homogeneous		100% Other	None Detected
13 / 23006933-013 Perimeter Caulking, AHU-2	Grey Non-Fibrous Homogeneous		100% Other	None Detected
14 / 23006933-014 Sealant on FI Membrane, AHU-2, Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected
14 / 23006933-014 Sealant on FI Membrane, AHU-2, Membrane	Black Non-Fibrous Homogeneous		100% Other	None Detected
15 / 23006933-015 Sealant on FI Membrane, AHU-2, Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 2/3/2023

Date: 2/7/2023



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Project Name: CML HVAC Reno
Collected Date: 2/2/2023
Received Date: 2/3/2023 10:00:00 AM

Analyst: Scales, Sean

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Components			Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
15 / 23006933-015 Sealant on FI Membrane, AHU-2, Membrane	Black Non-Fibrous Homogeneous		100% Other	None Detected
16 / 23006933-016 Sealant on FI 2nd Layer Membrane, AHU-2	Tan Non-Fibrous Homogeneous		100% Other	None Detected
17 / 23006933-017 Sealant on FI 2nd Layer Membrane, AHU-2	Tan Non-Fibrous Homogeneous		100% Other	None Detected
18 / 23006933-018 Putty, AHU-3	Off-White Non-Fibrous Homogeneous		100% Other	None Detected
19 / 23006933-019 Putty, AHU-3	Off-White Non-Fibrous Homogeneous		100% Other	None Detected
20 / 23006933-020 Fiberglass Duct Lining Coating, AHU-5	Black Fibrous Homogeneous	40% Glass	60% Other	None Detected
21 / 23006933-021 Fiberglass Duct Lining Coating, AHU-5	Black Fibrous Homogeneous	40% Glass	60% Other	None Detected
22 / 23006933-022 Interior Caulking, AHU-6	Grey Non-Fibrous Homogeneous		100% Other	None Detected
23 / 23006933-023 Interior Caulking, AHU-6	Grey Non-Fibrous Homogeneous		100% Other	None Detected
24 / 23006933-024 Caulking on Sq Duct, AHU-6	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: *Sean Scales*

Approved Signatory: *Matthew J. #*

Analysis Date: 2/3/2023

Date: 2/7/2023



SanAir ID Number
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 2/7/2023 10:38:07 AM


Name: Lawhon & Associates, Inc.
Address: 1441 King Ave
 Columbus, OH 43212
Phone: 614-481-8600 ext. 142

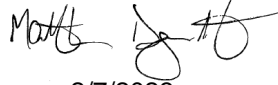
Project Number: 23-0026
P.O. Number:
Project Name: CML HVAC Reno
Collected Date: 2/2/2023
Received Date: 2/3/2023 10:00:00 AM

Analyst: Scales, Sean

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
25 / 23006933-025 Caulking on Sq Duct, AHU-6	Tan Non-Fibrous Homogeneous		100% Other	None Detected
26 / 23006933-026 Duct Mastic on Round Duct, AHU-6	Brown Non-Fibrous Homogeneous		100% Other	None Detected
27 / 23006933-027 Duct Mastic on Round Duct, AHU-6	Brown Non-Fibrous Homogeneous		100% Other	None Detected
28 / 23006933-028 Duct Mastic on Sq Duct, AHU-6	Brown Non-Fibrous Homogeneous		100% Other	None Detected
29 / 23006933-029 Duct Mastic on Sq Duct, AHU-6	Brown Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: 

Approved Signatory: 

Analysis Date: 2/3/2023

Date: 2/7/2023

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the client named on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission to assure that parts of the report are not taken out of context and to maintain client confidentiality. The information provided in this report applies only to the samples submitted in the condition they were received at the laboratory and is relevant only for the date, time, and location of sampling. Samples were received in good condition unless otherwise noted on the report. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client, which includes the project name, project number, po number, sample collection dates, special instructions, samples collected by, sample numbers, sample identifications/ location, sample type, selected analysis type, and total area or volume that may affect the validity of the results. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. SanAir assumes no responsibility or liability for the manner in which results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, AIHA LAP, LLC or any other agency of the U.S. government. Samples are held for a period of 60 days.

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Accreditations, Licenses, or Certificates

NVLAP Lab Code 600227-0

State of Rhode Island Department of Health, Certification Number: PLM00144, TEM00144

State of West Virginia Bureau for Public Health, Analytical Laboratory Number: LT000637



Lawhon & Associates, Inc.

Do Not Analyze Fiberglass

1441 King Avenue
Columbus, OH 43212
Phone: (614) 481-8600
Fax: (614) 481-8610

Print Count Samples with 3% or less Asb reported

Sent To: SARV

VIA: UPS

Date: 2-2-23

23006933

No. 3549

Page 1 of 2

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY RECORD

Sample I.D. No.	Homog. Area No.	Sample / Homogeneous Area Description	Project No.:	Project Contact:	Sampler (print):	Signature	Remarks
1	1	Fire Proofing	23-0026	Jordan Mederer	Dominic North	<i>[Signature]</i>	
2	1	+					2nd Fl stairs by Elevator
3	1	+					+
4	2	2x4 w/ CP Smooth Finish					2nd Fl stairs by Elevator
5	2	+					3rd Fl Hallway to Carnegie
6	3	grey w/ BIK STR sheet Fltm					AHV-6
7	3	+					+
8	4	Vent Panel Caulking I					AHV-1
9	4	+					AHV-3
10	5	Vent Panel caulking II					AHV-2
11	5	+					+
12	6	Perimeter Caulking					AHV-2
13	6	+					+
14	7	wh Sealant on FI Membrane					AHV-2
15	7	+					+
16	8	Sealant on FI 2nd Layer Membrane					AHV-2
17	8	+					+
18	9	off wh putty					AHV-3

SAMPLE ANALYSIS BY EPA METHOD 600/R-93/116 UNLESS OTHERWISE NOTED.

Stop 1st Positive Analyze All Samples

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
<i>[Signature]</i>	2-2-23 16:16	RMB	2-2-23 10:00				

Turn around: 3 Day

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600227-0

SanAir Technologies Laboratory, Inc.
Cincinnati, OH

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2023-01-01 through 2023-12-31

Effective Dates



A handwritten signature in black ink, appearing to read "Thomas S. Damm".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SanAir Technologies Laboratory, Inc.

11709 Chesterdale Road

Cincinnati, OH 45246

Mr. Matthew Daigneault

Phone: 804-897-1177 Fax: 804-897-0070

Email: mdaigneault@sanair.com

www.sanair.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 600227-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

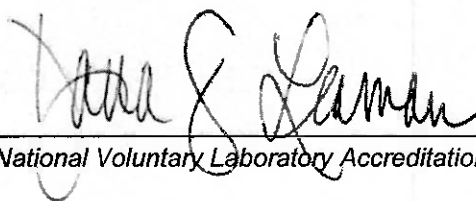
Airborne Asbestos Analysis

Code

Description

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.



For the National Voluntary Laboratory Accreditation Program