ASBESTOS SURVEY REPORT

City of Canton
133 Fawcett Court NW, Canton, Ohio 44708

Parcel Number: 215080

April 2020

Prepared for:

EnviroScience, Inc.
5070 Stow Road
Stow, Ohio 44224
Phone: (330) 688-0111

Prepared by:

HZW Environmental Consultants

1234 Weathervane Ln. ♦ Akron, Ohio 44313
330-208-2717 ♦ Fax 330-208-2799
A20017

HZW Environmental Consultants

April 13, 2020

Mr. Chuck Kessler
Sr. Environmental Planner/Project Manager
EnviroScience, Inc.
5070 Stow Road
Stow, Ohio 44224
Phone: (330) 688-0111

Subject: ***Asbestos Survey Report for the Property Located at 133 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708.***

Dear Mr. Kessler:

HZW Environmental Consultants, LLC (HZW) is pleased to submit this letter report which presents the findings of an asbestos survey conducted at the residence located at 133 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708 (hereinafter referred to as the "Property") on behalf of EnviroScience, Inc. (EnviroScience). The purpose of the asbestos survey was to identify asbestos-containing materials (ACM) located at the Property.

1.0 INTRODUCTION

On March 18, 2020 an asbestos survey was performed by Mr. Craig Kowalski and Chris Biro of HZW, who are State of Ohio Certified Asbestos Hazard Evaluation Specialists (AHES) under Certification Nos. ES35372 and ES36051, respectively. This certification is required to be maintained by the inspector(s) in accordance with the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) and Ohio Environmental Protection Agency (OEPA) regulations.

The asbestos survey was conducted in accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP). NESHAP regulations require no specific survey protocol be followed; however, Asbestos Hazard Emergency Response Act (AHERA) protocol is recommended. Therefore, the asbestos survey at the Property was conducted in accordance with AHERA protocol, which initially requires that all homogeneous areas of building materials located in a building and suspected of containing asbestos be identified. A homogeneous area is a building material/area that is uniform in texture, color, date of application, use or system and appears identical in every other respect. Once all homogeneous areas are identified, functional spaces in which these homogeneous areas exist are subsequently identified. Within each functional space, the AHERA

category, condition, quantity, and location of each suspect material is determined. Relevant definitions and acronyms used in this report are provided in **Attachment 1**.

2.0 FACILITY CONSTRUCTION INFORMATION

The residence is located at 133 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708. The 1,576 square feet, two (2)-story building with a full basement was built in 1910. The exterior construction of the building consists of stucco on terracotta block walls. The roof consists of asphalt shingles over wooden beams and joists. Interior finishes within the Property are primarily walls, ceilings and partitions constructed of plaster on brick, lath and drywall with various types of textured surfacing. The flooring consists of hard wood, carpet, and floor tile. The basement is constructed of terracotta block walls with concrete floors. There are no other structures located on the Property.

3.0 SCOPE OF WORK

AHERA classifies friable building materials into the following three (3) categories: surfacing materials, thermal system insulation (TSI) and miscellaneous materials. A friable building material is defined as a material that can be crumbled, pulverized, or reduced to powder by hand pressure. Examples of surfacing materials include fireproofing and acoustical plaster. TSI can include, but is not limited to, the following: pipe lagging, pipe wrap, block insulation, batt insulation and mudded fitting insulation. Miscellaneous materials can include, but are not limited, to the following: ceiling tile, drywall and joint compound, floor tile/sheet and mastic, roofing materials and transite. It should be noted that nonfriable building materials are often included by building inspectors under the miscellaneous materials category.

In determining the condition of the material, the following guidelines are used:

General Damage Category	AHERA Damage Category	Criteria
Good	No Damage	No Damage
Fair	Damage	Up to 10% overall damage Up to 25% localized damage
Poor	Significant Damage	Over 10% overall damage Over 25% localized damage

4.0 SUSPECT MATERIAL SUMMARY

During HZW's survey of the Property, all accessible homogeneous areas of building materials suspected of containing asbestos were identified and the functional spaces in which they were located were documented. Destructive techniques were used to determine if asbestos-containing materials were located behind walls, above ceiling components, etc. However, if during demolition/renovation activities, suspect materials not included in this report are observed, they must be tested for asbestos content or assumed to be ACM before being disturbed.

The following lists the suspect ACM identified at the Property:

Interior

- Plaster on Block Walls
- Drywall Wall System with Joint Compound
- Smeared Textured Surfacing Material on Walls
- Smooth Plaster on Lath on Ceilings
- Smooth Plaster on Lath on Walls
- Heavy Matted Textured Surfacing Material on Ceilings
- 2' x 4' Ceiling Tile Smooth
- 12" x 12" Tan Square Floor Tile with Mastic
- Popcorn Textured Surfacing Material
- Stipple Textured Surfacing Material
- 12" x 12" Solid Ceiling Tile
- Duct Wrap
- Sink Undercoating

Exterior

- Asphalt Shingles
- Window Glaze

A total of 41 bulk samples of the suspect ACM were collected at the Property for analysis by polarized light microscopy (PLM) technique with a positive stop at greater than 1% asbestos per homogenous area. The bulk sampling protocol is based on the AHERA category assigned to a specific homogeneous area and the quantity of that homogeneous area identified. **Attachment 2** provides a listing of samples submitted for analysis and a figure/sketch depicting sample locations. The bulk samples collected were submitted to Crisp Analytical, LLC (CA Labs) of Baton Rouge, Louisiana, for analysis of asbestos content by PLM using Environmental Protection Agency (EPA) Method 600/R-93/116.

In addition to the 41 bulk samples secured for analysis, the following lists the suspect ACM identified at the Property that were not tested for asbestos content:

- Duct Wrap – Assumed to be ACM
- Floor Tile with Mastic – Assumed to be ACM
- Asphalt Shingles – Assumed to be ACM

5.0 FINDINGS AND CONCLUSIONS

Based on the site inspection and the analytical data from the 41 bulk samples collected, HZW concludes the following regarding the Property:

- Friable ACM identified as duct wrap located on the duct runs only is assumed to be ACM. *These materials are RACM and must be abated before demolition activities.*

- Friable material containing trace amounts of asbestos (1% or less) identified as plaster on block walls located in rooms 1, 2, 3, 4, 5, 6, kitchen, bathroom, and stairs 1 (exterior walls) contains 0.5% - 0.75% chrysotile. Smooth plaster on lath ceilings located in rooms 1, 2, 4, 5, 6, kitchen, stairs 1, and bathroom contains 0.25% to 1.0% chrysotile. Smooth plaster on lath walls located in rooms 2, 4, 5, 6, kitchen, stairs 1, 3, and bathroom contains 0.25% to 1.0% chrysotile. Heavy matted textured surfacing material on ceilings located in rooms 1, 2 contains 0.50% – 0.75% chrysotile. Popcorn textured surfacing material on ceilings located in stairs 2 contains 0.25% chrysotile. Window glaze located on the exterior windows contains 0.5% - 1.0% chrysotile. These materials were confirmed by using point count analysis.

- Non-friable ACM was identified via sampling as white drywall with joint compound located in rooms 1, 2, 5, 6, kitchen, stairs 1, and bathroom contains less than 1% Chrysotile. *It should be noted that the joint compound in rooms 1, 2, 5, 6, kitchen, stairs 1, and bathroom was found to be greater than 1% asbestos by PLM analysis. The drywall and joint compound were point counted with the point counting results verifying the joint compound greater than 1% asbestos. The drywall and joint compound were composited; however, and the asbestos content was less than 1%. The U.S. EPA and Ohio EPA does not consider this to be an asbestos-containing material (or ACM). As such, the drywall/joint compound system does not need abated prior to demolition. However, OSHA does consider this an asbestos-containing material. Therefore, OSHA worker protection must be provided during demolition. The drywall/joint compound system also should be disposed of at an approved asbestos C&D or municipal landfill.*

- No non-friable ACM which may become friable ACM was identified via sampling.

- Materials which were not sampled but assumed to be ACM include 12" x 12" tan square floor tile with mastic located in stair 2 and asphalt shingles located on the exterior roof of the house and garage. These materials are in good condition. *Floor tile with mastic and asphalt shingles will need to be disposed of as Category I Non-Friable material.*

HZW's Asbestos Bulk Sampling Information Log for the Property, which includes the bulk sampling locations, material descriptions, quantities, condition and asbestos content is provided in **Attachment 2.** In addition, **Attachment 2** contains a drawing/sketch depicting the bulk sampling locations and the locations of building materials identified as ACM. A copy of the laboratory analytical report from CA Labs for the bulk samples collected at the Property is included as **Attachment 3**.

The quantities of ACM and assumed ACM, as presented on HZW's Asbestos Bulk Sampling Information Form in **Attachment 2** are approximate and represent the majority of accessible building materials that could be quantified during the survey. In addition, demolition of any of the Property's ceilings and walls may reveal additional building materials suspected of containing asbestos. These materials should be sampled prior to demolition to discern its asbestos content or assumed to be ACM.

6.0 HAZARD COMMUNICATION

The information contained in this report should be conveyed to contractors that will be working in the facility to satisfy the hazard communication requirements of the OSHA Asbestos in Construction Standard, 29 CFR 1926.1101.

7.0 LIMITATIONS AND DISCLAIMER

This report describes the locations of ACM identified in the Property located at 133 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708 at the time of assessment. HZW represents that our services are performed within the limits prescribed by applicable regulations and in a manner consistent with the level of care and skill ordinarily exercised by other professional consultants under similar circumstances. HZW shall not be responsible for conditions or consequences arising from relevant information that was concealed or not fully disclosed at the time this investigation was conducted. The information and opinions included in this report are exclusively for the use of EnviroScience, who may rely upon the information and conclusions presented in this report. No other representation is made to the client, expressed or implied, and no warranty or guarantee is included or intended.

Asbestos-containing material quantities stated in this report are approximate. The results and conclusions of the asbestos assessment are based upon information obtained from a limited number of samples. Conditions at other locations may differ from those where sampling was conducted. It is possible that additional ACMs are present behind walls, below floors, above ceilings, or in other areas which were not readily accessible at the time of this work. If encountered during demolition activities, suspect material must be sampled and analyzed for asbestos content or assumed to be ACM. Exploratory demolition was not completed as part of this assessment.

This report is designed to aid the building owner, architect, construction manager, or general contractor in locating ACM. Under no circumstances is the report to be utilized as a project specification document. This asbestos survey report does not contain the components required to serve as an Asbestos Project Design document or as an Asbestos Abatement Work Plan.

HZW's professional services have been performed, findings obtained, as well as conclusions and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

HZW appreciates the opportunity you have given us to provide professional consulting services to EnviroScience. Should you have any questions regarding the information presented above, please do not hesitate to contact us.

Report Prepared By:

Craig Kowalski

Asbestos Hazard Abatement Specialist
AS32156
Asbestos Hazard Evaluation Specialist

Christopher J. Biro

Asbestos Hazard Abatement Specialist
AS31591
Asbestos Hazard Evaluation Specialist
ES36051

Report Reviewed By: Kevin M. Reaman Digitally signed by Kevin M. Reaman Date: 2020.04.15 18:16:54 -04'00'

Kevin Reaman
Akron Office Manager

ATTACHMENT 1

DEFINITIONS & ACRONYMS

DEFINITIONS

Definitions are included in this section in order to provide information concerning potential examples of material that contain asbestos, the condition of the materials, and the proper handling, transportation, and disposal of the materials off-site if necessary.

Asbestos-Containing Material (ACM) is defined as any material that contains more than one (1) percent asbestos as determined by the test method, specified in the CFR Title 40, Part 763, Subpart E, PLM.

Friable is defined as a material that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure, or any previously non-friable material that has become damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.

Category I Non-friable ACM is defined by the NESHAPs as asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.

Category II Non-friable ACM is any material, excluding Category I non-friable ACM, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated Asbestos-Containing Material (RACM) includes: (1) Friable asbestos-containing material, including Category I or II non-friable ACM that has become friable; (2) Category I and Category II non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading; (3) Category I and Category II non-friable ACM that has become or have a high probability of becoming friable by the actions of demolition or renovation.

ACRONYMS

ACM-	Asbestos-containing material
AHERA-	Asbestos Hazard Emergency Response Act
CAHES-	Certified Asbestos Hazard Evaluation Specialist
CFR-	Code of Federal Regulations
DOT-	Department of Transportation
EPA-	Environmental Protection Agency
HVAC-	Heating, Ventilation and Air Conditioning
NESHAP-	National Emissions Standards for Hazardous Air Pollutants
NVLAP-	National Voluntary Laboratory Accreditation Program
ODH-	Ohio Department of Health
OSHA-	Occupational Safety & Health Administration
PACM-	Presumed asbestos-containing material
PLM-	Polarized light microscopy
RACM-	Regulated Asbestos-Containing Material
VAE-	Visual area estimation

ATTACHMENT 2

ASBESTOS BULK SAMPLING INFORMATION LOG AND PROPERTY FIGURE/SKETCH

HZW Environmental Consultants, 1234 Weathervane Lane, Suite 110, Akron, Ohio 44313
330-208-2717/ 330-208-2799- Fax

Asbestos Bulk Sample Information Log

Project Name:	EnviroScience Asbestos Inspections	HZW Project Number:	A20017
Project Address:	133 Fawcett Ct. NW, Canton, Ohio 44708	Sample Collection Date:	3/18/2020

Sample #	Asbestos Content	Material Description	Location	Condition	Friable (Y/N)	Approximate Quantity
1	0.5% - 0.75% Chrysotile	Plaster on Block Walls	Rooms 1, 2, 3, 4, 5, 6, Kitchen, Bathroom, Stairs 1, (Exterior Walls)	Good	Yes	Approx. 1,792 sf
2		Plaster on Block Walls	Rooms 1, 2, 3, 4, 5, 6, Kitchen, Bathroom, Stairs 1, (Exterior Walls)	Good	Yes	
3		Plaster on Block Walls	Rooms 1, 2, 3, 4, 5, 6, Kitchen, Bathroom, Stairs 1, (Exterior Walls)	Good	Yes	
4		Plaster on Block Walls	Rooms 1, 2, 3, 4, 5, 6, Kitchen, Bathroom, Stairs 1, (Exterior Walls)	Good	Yes	
5		Plaster on Block Walls	Rooms 1, 2, 3, 4, 5, 6, Kitchen, Bathroom, Stairs 1, (Exterior Walls)	Good	Yes	
6	<1.0% Chrysotile	Drywall Wall System with Joint Compound	Rooms 1, 2, 3, 5, 6, Kitchen, Bathroom, Stairs 1, 2, Basement	Good	Yes	Approx. 1,300 sf
7		Drywall Wall System with Joint Compound	Rooms 1, 2, 3, 5, 6, Kitchen, Bathroom, Stairs 1, 2, Basement	Good	Yes	
8		Drywall Wall System with Joint Compound	Rooms 1, 2, 3, 5, 6, Kitchen, Bathroom, Stairs 1, 2, Basement	Good	Yes	
9		Drywall Wall System with Joint Compound	Rooms 1, 2, 3, 5, 6, Kitchen, Bathroom, Stairs 1, 2, Basement	Good	Yes	
10		Drywall Wall System with Joint Compound	Rooms 1, 2, 3, 5, 6, Kitchen, Bathroom, Stairs 1, 2, Basement	Good	Yes	
11	None	Smeared Textured Surfacing Material on the Walls	Room 1	Good	Yes	Approx. 100 sf
12		Smeared Textured Surfacing Material on the Walls	Room 1	Good	Yes	
13		Smeared Textured Surfacing Material on the Walls	Room 1	Good	Yes	
14	0.25% - 1.0% Chrysotile	Smooth Plaster on Lath Ceilings	Rooms 1, 2, 4, 5, 6, Kitchen, Stairs 1, Bathroom	Good	Yes	Approx. 1,512 sf
15		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 4, 5, 6, Kitchen, Stairs 1, Bathroom	Good	Yes	
16		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 4, 5, 6, Kitchen, Stairs 1, Bathroom	Good	Yes	
17		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 4, 5, 6, Kitchen, Stairs 1, Bathroom	Good	Yes	
18		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 4, 5, 6, Kitchen, Stairs 1, Bathroom	Good	Yes	
19	0.5% - 1.0% Chrysotile	Smooth Plaster on Lath Walls	Rooms 2, 4, 5, 6, Kitchen, Stairs 1, 3, Bathroom	Good	Yes	Approx. 1,450 sf
20		Smooth Plaster on Lath Walls	Rooms 2, 4, 5, 6, Kitchen, Stairs 1, 3, Bathroom	Good	Yes	
21		Smooth Plaster on Lath Walls	Rooms 2, 4, 5, 6, Kitchen, Stairs 1, 3, Bathroom	Good	Yes	
22		Smooth Plaster on Lath Walls	Rooms 2, 4, 5, 6, Kitchen, Stairs 1, 3, Bathroom	Good	Yes	
23		Smooth Plaster on Lath Walls	Rooms 2, 4, 5, 6, Kitchen, Stairs 1, 3, Bathroom	Good	Yes	
24	0.5% - 0.75% Chrysotile	Heavy Matted Textured Surfacing Material on the Ceiling	Room 1, 2	Good	Yes	Approx. 300 sf
25		Heavy Matted Textured Surfacing Material on the Ceiling	Room 1, 2	Good	Yes	
26		Heavy Matted Textured Surfacing Material on the Ceiling	Room 1, 2	Good	Yes	
27	None	2'x4' Ceiling Tile Smooth	Kitchen	Good	Yes	Approx. 24 sf
28		2'x4' Ceiling Tile Smooth	Kitchen	Good	Yes	
29	<0.25% Chrysotile	Popcorn Textured Surfacing Material	Stairs 2	Good	Yes	Approx. 550 sf
30		Popcorn Textured Surfacing Material	Stairs 2	Good	Yes	
31		Popcorn Textured Surfacing Material	Stairs 2	Good	Yes	
32	None	Stippled Textured Surfacing Material	Stairs 2, Hall and Basement	Good	Yes	Approx. 300 sf
33		Stippled Textured Surfacing Material	Stairs 2, Hall and Basement	Good	Yes	
34		Stippled Textured Surfacing Material	Stairs 2, Hall and Basement	Good	Yes	
35	None	12"x12" Solid Ceiling Tile	Room 4, 5, 6	Good	Yes	Approx. 430 sf
36		12"x12" Solid Ceiling Tile	Room 4, 5, 6	Good	Yes	
37	0.50% -1.0% Chrysotile	Window Glaze	Exterior Windows	Good	Yes	Approx. 55 sf
38		Window Glaze	Exterior Windows	Good	Yes	
39		Window Glaze	Exterior Windows	Good	Yes	
40	None	Skin Under Coat	Kitchen	Good	Yes	Approx. 5 sf
41		Skin Under Coat	Kitchen	Good	Yes	
	Assumed	12"x12" Tan Square Floor Tile with Mastic	Stairs 2	Good	No	Approx. 24 sf
	Assumed	Duct Wrap	Duct Runs Only	Good	Yes	Approx. 336 sf
	Assumed	Asphalt Shingles	Exterior Roof	Good	No	Approx. 1,320 sf

NOTES.
Red text is friable or may become friable RACM and must be abated before demolition of the structure.

HZW ENVIRONMENTAL
CONSULTANTS, LLC

6105 Heisley Road • Mentor, Ohio 44060
Phone 440-357-1260 • 800-804-8484
Fax 440-357-1510
A Woman-Owned Business Enterprise

PROJECT 133 Fawcett Ct. NW

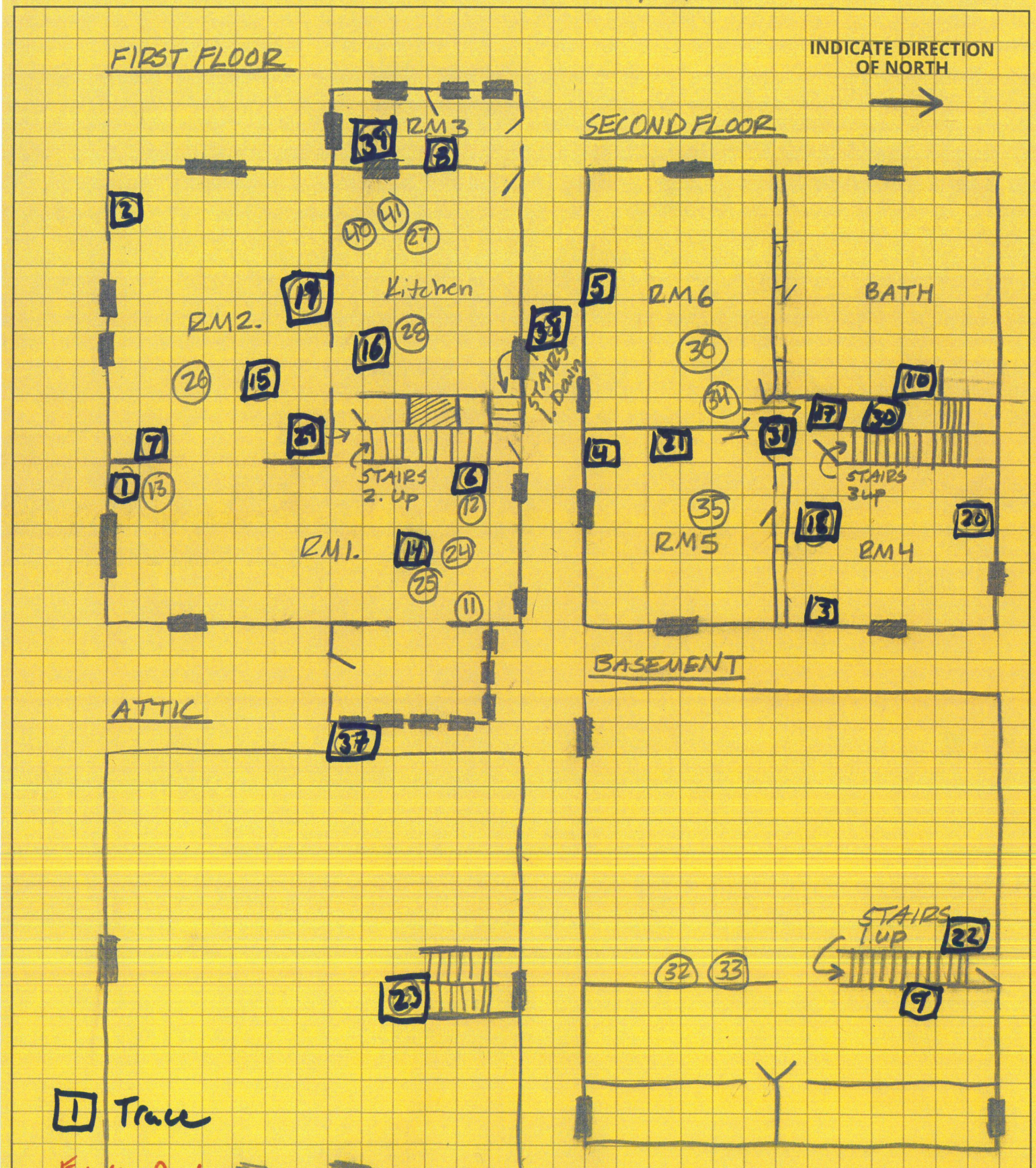
PROJECT NO.

PAGE NO. ES OF

FIELD REPRESENTATIVE CK/CB DATE 3-18-20

SCALE 28x27

10x10 Bump Out



Friable Duct Wrap Located on the Duct Runs to all Levels is Assumed to Be ACM

HZW Environmental Consultants
1234 Weathervane Lane, Suite 110, Akron, OH 44313
phone 330-208-2717 - 800-804-8484
fax 330-208-2799
A WOMAN OWNED BUSINESS ENTERPRISE

PROJECT 133 Fawcett Ct. NW

PROJECT NO.

DATE ~~3-18-20~~ 3-18-20 PAGE ___ OF ___

HZW REPRESENTATIVE CK / CB

FACILITY CONSTRUCTION INFORMATION

Dimensions	27x28	Attic	None
Basement	Full		
Exterior Const.	Stucco on Terra Cotta Block		
Other Structures	None		

NOTES:
Carpet Floors
Basement = Glass Block Windows

SUSPECT MATERIAL SUMMARY

Sample #	DESCRIPTION AND LOCATION OF SUSPECT BUILDING MATERIALS	Quantity
1-5	Plaster on Block Walls Rm 1,2,3,4,5,6 Kitchen, Stairs 1, Bath (Exterior Walls)	1,792
6-10	Drywall Wall System w/JC Rm 1 (80), 2 (240), 3 (150), 5 (110), 6 (110), Kitchen (400), Stairs 1,2 (100), Bath (100), Basement (50), (200)	1,300
11-13	Smeared TSM on Walls Rm 1 (100)	100
14-18	Smooth Plaster on Lath Ceiling Rm 1,2,4,5,6 Kitchen, Stairs 1, Bath	1512
19-23	Smooth Plaster on Lath Walls Rm 2,4,5,6 Kitchen, Stairs 1,3 (200), Bath	1,450
24-26	Heavy Matted TSM on Ceiling Rm 1,2	504
27-28	2x4 CT Smooth Kitchen	300
Assume	12x12 Tan Sq. FT. w/Mastic Stairs 2	24
29-31	Popcorn TSM Stairs 2	550
32-34	Stipple TSM Stairs 2, Hall, Basement (200)	300
35-36	12x12 Solid CT RM 4 (132), 5 (154), 6 (143)	430
37-39	Window Glaze Ext. Windows (12, 14, 13)	SC. 6
Assume	Duct Wrap Throughout	336
Assume	Asphalt Shingles Roof	1320
40-41	Sink Under Coat Kitchen	5

NOTE: Quantities are approximate and listed in (ft^2). "TSM" = Textured Surfacing Material. "FT" = Floor Tile. "FS" = Floor Sheet. "CT" = Ceiling Tile.

ATTACHMENT 3

LABORATORY ANALYTICAL REPORT FOR BULK SAMPLES COLLECTED

CA Labs
Dedicated to Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Original asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP or AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

Customer Info: **Attn:** Craig Kowalski
HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Phone # 330-208-2717
Fax # 330-208-2799

Customer Project:

133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 3 day

CA Labs Project #:
CBR20031381BAmend

Date: 4/1/2020
Samples Received: 3/27/2020
Date Of Sampling:
Purchase Order #: A20017

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
1	*1-2*	*Brown Plaster*	*Y*	***0.50% Chrysotile***
2	*2-2*	*Brown Plaster*	*Y*	***0.75% Chrysotile***
3	*3-2*	*Brown Plaster*	*Y*	***0.75% Chrysotile***

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

CA Labs
Dedicated to Quality

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Customer Info: **Attn:** Craig Kowalski
HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Phone # 330-208-2717
Fax # 330-208-2799

Customer Project:

133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 3 day

CA Labs Project #:
CBR20031381BAmend

Date: 4/1/2020
Samples Received: 3/27/2020
Date Of Sampling:
Purchase Order #: A20017

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
4	*4-2*	*Brown Plaster*	*Y*	***0.50% Chrysotile***
5	*5-2*	*Brown Plaster*	*Y*	***0.75% Chrysotile***
8	*8-1*	*White Surfaced White Compound*	*N*	***1.50% Chrysotile***
8	*8-2*	*White Compound Beneath Tape*	*Y*	***1.25% Chrysotile***
14	*14-2*	*White Finishing Plaster*	*Y*	***0.50% Chrysotile***
14	*14-3*	*Brown Plaster*	*Y*	***0.75% Chrysotile***
15	*15-2*	*Brown Plaster*	*Y*	***0.50% Chrysotile***

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

CA Labs
Dedicated to Quality

CA Labs, L.L.C.
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Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Customer Info: **Attn:** Craig Kowalski
HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Phone # 330-208-2717
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Customer Project:
133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 3 day

CA Labs Project #:
CBR20031381BAmend

Date: 4/1/2020
Samples Received: 3/27/2020
Date Of Sampling:
Purchase Order #: A20017

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
16	*16-1*	*White Finishing Plaster*	*Y*	***0.50% Chrysotile***
16	*16-2*	*Brown Plaster*	*Y*	***0.75% Chrysotile***
17	*17-2*	*White Finishing Plaster*	*Y*	***0.75% Chrysotile***
17	*17-3*	*Brown Plaster*	*Y*	***1.00% Chrysotile***
18	*18-1*	*White Finishing Plaster*	*Y*	***0.25% Chrysotile***
18	*18-2*	*Brown Plaster*	*Y*	***0.75% Chrysotile***
19	*19-1*	*White Finishing Plaster*	*Y*	***0.75% Chrysotile***

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

CA Labs
Dedicated to Quality

CA Labs, L.L.C.
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Phone 225-751-5632
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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Customer Info: **Attn:** Craig Kowalski
HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Phone # 330-208-2717
Fax # 330-208-2799

Customer Project:
133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 3 day

CA Labs Project #:
CBR20031381BAmend

Date: 4/1/2020
Samples Received: 3/27/2020
Date Of Sampling:
Purchase Order #: A20017

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
19	*19-2*	*Brown Plaster*	*Y*	***0.75% Chrysotile***
20	*20-1*	*White Finishing Plaster*	*Y*	***0.50% Chrysotile***
20	*20-2*	*Brown Plaster*	*Y*	***1.00% Chrysotile***
21	*21-1*	*Green Surfaced White Finishing Plaster*	*Y*	***0.50% Chrysotile***
21	*21-2*	*Brown Plaster*	*Y*	***0.75% Chrysotile***
22	*22-1*	*White Finishing Plaster*	*Y*	***0.75% Chrysotile***
22	*22-2*	*Brown Plaster*	*Y*	***1.00% Chrysotile***

Approved Signatories:

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Analyst

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Customer Info: **Attn:** Craig Kowalski
HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Phone # 330-208-2717
Fax # 330-208-2799

Customer Project:
133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 3 day

CA Labs Project #:
CBR20031381BAmend

Date: 4/1/2020
Samples Received: 3/27/2020
Date Of Sampling:
Purchase Order #: A20017

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
23	*23-1*	*Green Surfaced White Finishing Plaster*	*Y*	***0.75% Chrysotile***
23	*23-2*	*Brown Plaster*	*Y*	***0.75% Chrysotile***
24	*24-1*	*White Textured Surfacing*	*Y*	***0.50% Chrysotile***
25	*25-1*	*White Textured Surfacing*	*Y*	***0.50% Chrysotile***
26	*26-1*	*White Textured Surfacing*	*Y*	***0.75% Chrysotile***
31	*31-2*	*Brown Plaster*	*Y*	***0.25% Chrysotile***
38	*38-1*	*White Surfaced White Sealant*	*N*	***0.50% Chrysotile***

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Customer Info: **Attn:** Craig Kowalski
HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Phone # 330-208-2717
Fax # 330-208-2799

Customer Project:

133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 3 day

CA Labs Project #:
CBR20031381BAmend

Date: 4/1/2020
Samples Received: 3/27/2020
Date Of Sampling:
Purchase Order #: A20017

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
39	*39-1*	*White Surfaced White Sealant*	*N*	***1.00% Chrysotile***

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

CA LABS

CA Labs, LLC
12232 Industriplex Blvd Suite 31/32
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Phone: 225-751-5632
Fax: 225-751-5634
Mobile: 225-993-3471

Chain of Custody **CA Labs job#: CBR** 2003138TB

CA Labs Client Name: HzW Akron

Billing Address: _____

Client Address: _____

(If Different) _____

_____

_____

Phone Number: _____

Send Reports to (email address): _____

Fax Number: _____

PO# _____

Project Name: 133 Fawcett Ct.

Contact: _____

Project Number: RE: CBR2003138T

Results Reported Via: Email ____ Fax ____ Verbal ____

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix:
24	24	Air/Bulk/Wipe

Circle analysis and TA time: **Please call ahead for availability of all rush/afterhours samples.**

TEM:	AHERA	EPA Level II	Wipe	Micro-Vac	NIOSH 7402	Chatfield Bulk	Amphibole Separation
TAT	4 hour	8 hour		24 hour	2 day	3 day	5 day

PLM:	AHERA		400 Point Counts	1000 Point Counts	Gravimetric Point Count	
TAT	2 hour	4 hour	~~8 hour~~	24 hour	2 day	3 day	5 day

Optical/IAQ:	Allergen: Tape/Bulk/Swab		Air-O-Cell	PCM	PCM (TWA)	
TAT	2 hour	4 hour	8 hour	24 hour	2 day	3 day	5 day

Lead:	Paint Chips	Soil	Wipes	Air	TCLP
TAT	4 hour	8 hour	24 hour	2 day	3 day	5 day

Other analysis not listed: _____ TAT: _____

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume(L)
	Please see attached email:		

3/27/20 11:10AM

Custody Information:

Samples relinquished: Email: Craig Kowalski 3/27/20 11:10AM
Signature/Date/Time

Samples received: Jennifer Waters
Signature/Date/Time

Samples relinquished: _____
Signature/Date/Time

Samples received: _____
Signature/Date/Time

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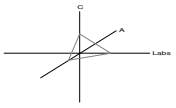

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Attn: Craig Kowalski
Customer Project: 133 Fawcett Ct. NW Canton, OH 44708
Reference #: CBR20031381Amend2 Date: 4/1/2020

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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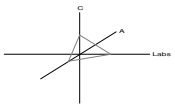

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: 133 Fawcett Ct. NW Canton, OH 44708 **CA Labs Project #:** CBR20031381Amend2

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
1	*1-2*	*Brown Plaster*	***2% Chrysotile***	***Brown Plaster***
				White Surfaced White Finishing Plaste
				White Surfaced White Compound
				White Compound Beneath Tape
2	*2-2*	*Brown Plaster*	***2% Chrysotile***	***Composite of Layers 1, 2, & 3***
				Green Surfaced White Finishing Plaste
				White Textured Surfacing
3	*3-1*	*White Surfaced White Finishing Plaster*	***<1% Chrysotile***	***White Surfaced White Sealant***
	3-2	*Brown Plaster*	***2% Chrysotile***	
4	*4-1*	*White Surfaced White Finishing Plaster*	***<1% Chrysotile***	
	4-2	*Brown Plaster*	***2% Chrysotile***	
5	*5-1*	*White Surfaced White Finishing Plaster*	***<1% Chrysotile***	
	5-2	*Brown Plaster*	***2% Chrysotile***	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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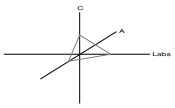

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: 133 Fawcett Ct. NW Canton, OH 44708 **CA Labs Project #:** CBR20031381Amend2

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
8	*8-1*	*White Surfaced White Compound*	***2% Chrysotile***	
	8-2	*White Compound Beneath Tape*	***2% Chrysotile***	
	8-4	*Composite of Layers 1, 2, & 3*	***<1% Chrysotile***	
14	*14-2*	*White Finishing Plaster*	***2% Chrysotile***	
	14-3	*Brown Plaster*	***2% Chrysotile***	
15	*15-2*	*Brown Plaster*	***2% Chrysotile***	
16	*16-1*	*White Finishing Plaster*	***2% Chrysotile***	
	16-2	*Brown Plaster*	***2% Chrysotile***	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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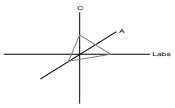

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: 133 Fawcett Ct. NW Canton, OH 44708 **CA Labs Project #:** CBR20031381Amend2

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
17	*17-2*	*White Finishing Plaster*	***2% Chrysotile***	
	17-3	*Brown Plaster*	***2% Chrysotile***	
18	*18-1*	*White Finishing Plaster*	***2% Chrysotile***	
	18-2	*Brown Plaster*	***2% Chrysotile***	
19	*19-1*	*White Finishing Plaster*	***2% Chrysotile***	
	19-2	*Brown Plaster*	***2% Chrysotile***	
20	*20-1*	*White Finishing Plaster*	***2% Chrysotile***	
	20-2	*Brown Plaster*	***2% Chrysotile***	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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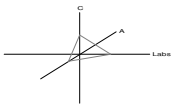

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: 133 Fawcett Ct. NW Canton, OH 44708 **CA Labs Project #:** CBR20031381Amend2

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
21	21-1	*Green Surfaced White Finishing Plaster*	***2% Chrysotile***	
	21-2	*Brown Plaster*	***2% Chrysotile***	
22	22-1	*White Finishing Plaster*	***2% Chrysotile***	
	22-2	*Brown Plaster*	***2% Chrysotile***	
23	23-1	*Green Surfaced White Finishing Plaster*	***2% Chrysotile***	
	23-2	*Brown Plaster*	***2% Chrysotile***	
24	24-1	*White Textured Surfacing*	***2% Chrysotile***	
25	25-1	*White Textured Surfacing*	***2% Chrysotile***	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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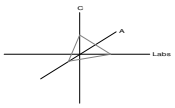

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: 133 Fawcett Ct. NW Canton, OH 44708 **CA Labs Project #:** CBR20031381Amend2

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
26	*26-1*	*White Textured Surfacing*	***2% Chrysotile***	
31	*31-1*	*White Surfaced White Finishing Plaster*	***<1% Chrysotile***	
	31-2	*Brown Plaster*	***2% Chrysotile***	
38	*38-1*	*White Surfaced White Sealant*	***2% Chrysotile***	
39	*39-1*	*White Surfaced White Sealant*	***2% Chrysotile***	
40	*40-1*	*Black Debris*	***30% Chrysotile***	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Craig Kowalski
HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Phone # 330-208-2717
Fax # 330-208-2799

Customer Project:
133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 5 day

CA Labs Project #:
CBR20031381Amend2

Date: 4/1/2020
Samples Received: 3/19/2020
Date Of Sampling: 3/18/2020
Purchase Order #: A20017

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
1	***10***	*1-1*	*White Surfaced White Finishing Plaster*	*N*	***None Detected***	2% ta	98% qu, bi, gy, ca
		1-2	*Brown Plaster*	*Y*	***2% Chrysotile***	2% sy	96% qu, ma, ca
2	***10***	*2-1*	*White Surfaced White Finishing Plaster*	*N*	***None Detected***	2% ta	98% qu, bi, gy, ca
		2-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
3		*3-1*	*White Surfaced White Finishing Plaster*	*N*	***<1% Chrysotile***	2% ta	98% qu, bi, gy, ca
		3-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
4		*4-1*	*White Surfaced White Finishing Plaster*	*N*	***<1% Chrysotile***	2% ta	98% qu, bi, gy, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Craig Kowalski
HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Phone # 330-208-2717
Fax # 330-208-2799

Customer Project:
133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 5 day

CA Labs Project #:
CBR20031381Amend2

Date: 4/1/2020
Samples Received: 3/19/2020
Date Of Sampling: 3/18/2020
Purchase Order #: A20017

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		4-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
5		*5-1*	*White Surfaced White Finishing Plaster*	*N*	***<1% Chrysotile***	2% ta	98% qu, bi, gy, ca
		5-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
6		*6-1*	*Tan Surfaced White Compound*	*N*	***None Detected***		100% mi, bi, ca
		6-2	*White Compound Beneath Tape*	*Y*	***None Detected***		100% mi, ca
		6-3	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy
7		*7-1*	*White Compound*	*Y*	***None Detected***		100% mi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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10. TEM analysis suggested

CA Labs
Dedicated to Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Craig Kowalski
HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Phone # 330-208-2717
Fax # 330-208-2799

Customer Project:
133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 5 day

CA Labs Project #:
CBR20031381Amend2

Date: 4/1/2020
Samples Received: 3/19/2020
Date Of Sampling: 3/18/2020
Purchase Order #: A20017

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		7-2	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy
8		*8-1*	*White Surfaced White Compound*	*N*	***2% Chrysotile***		98% mi, bi, ma, ca
		8-2	*White Compound Beneath Tape*	*Y*	***2% Chrysotile***		98% mi, ma, ca
		8-3	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy
		8-4	*Composite of Layers 1, 2, & 3*	*N*	***<1% Chrysotile***	5% ce	95% qu, mi, ma, bi, ca, gy
9		*9-1*	*Green Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, bi, ca
		9-2	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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Canton, OH 44708
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CA Labs Project #:
CBR20031381Amend2

Date: 4/1/2020
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Date Of Sampling: 3/18/2020
Purchase Order #: A20017

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
10		*10-1*	*Tan Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, bi, ca
		10-2	*White Compound Beneath Tape*	*Y*	***None Detected***		100% qu, mi, ca
		10-3	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy
11		*11-1*	*Tan Textured Surfacing*	*Y*	***None Detected***		100% mi, qu, bi, ca
12		*12-1*	*Tan Textured Surfacing*	*Y*	***None Detected***		100% mi, qu, bi, ca
13		*13-1*	*Tan Textured Surfacing*	*Y*	***None Detected***		100% mi, qu, bi, ca
	5	*13-2*	*Brown Plaster*				

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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Purchase Order #: A20017

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14		*14-1*	*White Surfaced Brown Covering*	*N*	***None Detected***	90% ce	10% qu, bi
		14-2	*White Finishing Plaster*	*Y*	***2% Chrysotile***		98% qu, gy, ca
		14-3	*Brown Plaster*	*Y*	***2% Chrysotile***	2% sy	96% qu, ca
15	***10***	*15-1*	*White Finishing Plaster*	*Y*	***None Detected***		100% qu, gy, ca
		15-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
16		*16-1*	*White Finishing Plaster*	*Y*	***2% Chrysotile***		98% qu, gy, ca
		16-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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17		*17-1*	*White Surfaced Brown Covering*	*N*	***None Detected***	90% ce	10% qu, bi
		17-2	*White Finishing Plaster*	*Y*	***2% Chrysotile***		98% qu, gy, ca
		17-3	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
18		*18-1*	*White Finishing Plaster*	*Y*	***2% Chrysotile***		98% qu, gy, ca
		18-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
19		*19-1*	*White Finishing Plaster*	*Y*	***2% Chrysotile***		98% qu, gy, ca
		19-2	*Brown Plaster*	*Y*	***2% Chrysotile***	2% sy	96% qu, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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CBR20031381Amend2

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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
20		*20-1*	*White Finishing Plaster*	*Y*	***2% Chrysotile***		98% qu, gy, ca
		20-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
21		*21-1*	*Green Surfaced White Finishing Plaster*	*Y*	***2% Chrysotile***		98% qu, gy, ca
		21-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
22		*22-1*	*White Finishing Plaster*	*Y*	***2% Chrysotile***		98% qu, gy, ca
		22-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
23		*23-1*	*Green Surfaced White Finishing Plaster*	*Y*	***2% Chrysotile***		98% qu, gy, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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NVLAP #200772-0
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133 Fawcett Ct. NW
Canton, OH 44708
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CBR20031381Amend2

Date: 4/1/2020
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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		23-2	*Brown Plaster*	*Y*	***2% Chrysotile***		98% qu, ma, ca
24		*24-1*	*White Textured Surfacing*	*Y*	***2% Chrysotile***	2% wo	96% qu, bi, ca
25		*25-1*	*White Textured Surfacing*	*Y*	***2% Chrysotile***		98% qu, mi, ma, bi, ca
26		*26-1*	*White Textured Surfacing*	*Y*	***2% Chrysotile***		98% qu, mi, ma, bi, ca
27		*27-1*	*White Surfacing*	*Y*	***None Detected***		100% qu, bi
		27-2	*Brown Ceiling Tile*	*Y*	***None Detected***	100% ce	
28		*28-1*	*White Surfacing*	*Y*	***None Detected***		100% qu, bi

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		28-2	*Brown Ceiling Tile*	*Y*	***None Detected***	100% ce	
29		*29-1*	*White Textured Surfacing*	*Y*	***None Detected***		100% qu, bi, pe, ca
30		*30-1*	*White Textured Surfacing*	*Y*	***None Detected***		100% qu, bi, pe, ca
31		*31-1*	*White Surfaced White Finishing Plaster*	*N*	***<1% Chrysotile***	2% ta	98% qu, gy, bi, ca
		31-2	*Brown Plaster*	*Y*	***2% Chrysotile***	2% sy	96% qu, ca
32		*32-1*	*White Textured Surfacing*	*Y*	***None Detected***	2% wo	98% mi, qu, pe, bi, ca
33		*33-1*	*White Textured Surfacing*	*Y*	***None Detected***	2% wo	98% mi, qu, pe, bi, ca

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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
34		*34-1*	*White Textured Surfacing*	*Y*	***None Detected***	2% wo	98% mi, qu, pe, bi, ca
35		*35-1*	*White Surfacing*	*Y*	***None Detected***		100% qu, bi
		35-2	*Brown Ceiling Tile*	*Y*	***None Detected***	100% ce	
36		*36-1*	*White Surfacing*	*Y*	***None Detected***		100% qu, bi
		36-2	*Brown Ceiling Tile*	*Y*	***None Detected***	100% ce	
37		*37-1*	*White Surfaced White Sealant*	*N*	***None Detected***	4% wo	96% qu, bi, ca
38		*38-1*	*White Surfaced White Sealant*	*N*	***2% Chrysotile***		98% qu, bi, ca

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39		*39-1*	*White Surfaced White Sealant*	*N*	***2% Chrysotile***		98% qu, bi, ca
40		*40-1*	*Black Debris*	*Y*	***30% Chrysotile***	5% ce	65% qu, ma, bi
41		*41-1*	*Black Debris*	*Y*	*Positive Stop*		

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Original asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP or AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

Customer Info: **Attn:** Craig Kowalski
HzW Environmental
1234 Weathervane Lane, Suite 110
Akron, OH 44313

Phone # 330-208-2717
Fax # 330-208-2799

Customer Project:

133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 5 day

CA Labs Project #:
CBR20031381Amend2

Date: 4/1/2020
Samples Received: 3/19/2020
Date Of Sampling: 3/18/2020
Purchase Order #: A20017

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
3	*3-1*	*White Surfaced White Finishing Plaster*	*N*	***0.25% Chrysotile***
4	*4-1*	*White Surfaced White Finishing Plaster*	*N*	***0.50% Chrysotile***
5	*5-1*	*White Surfaced White Finishing Plaster*	*N*	***0.50% Chrysotile***

Approved Signatories:

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Analyst

Senior Analyst
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Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

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133 Fawcett Ct. NW
Canton, OH 44708
Turnaround Time: 5 day

CA Labs Project #:
CBR20031381Amend2

Date: 4/1/2020
Samples Received: 3/19/2020
Date Of Sampling: 3/18/2020
Purchase Order #: A20017

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
8	*8-4*	*Composite of Layers 1, 2, & 3*	*N*	***0.25% Chrysotile***
31	*31-1*	*White Surfaced White Finishing Plaster*	*N*	***Trace Chrysotile***

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

CBR2003138\

HZW Environmental Consultants, 1234 Weathervane Lane, Suite 110, Akron, Ohio 44313
330-208-2717/ 330-208-2799- Fax

Asbestos Bulk Sample Chain of Custody

Project Name:	EnviroScience Asbestos Inspections	HZW Project Number:	A20017
Project Address:	133 Fawcett Ct. NW, Canton, Ohio 44708	Sample Collection Date:	3/18/2020

Sample #	HA	Material Description	Location	Condition	Friable (Y/N)	Comment
1		Plaster on Block Walls	Rooms 1, 2, 3, 4, 5, 6, Kitchen, Bathroom, Stairs 1, (Exterior Walls)	Good	Yes	Stop at First Positive
2		Plaster on Block Walls	Rooms 1, 2, 3, 4, 5, 6, Kitchen, Bathroom, Stairs 1, (Exterior Walls)	Good	Yes	Stop at First Positive
3		Plaster on Block Walls	Rooms 1, 2, 3, 4, 5, 6, Kitchen, Bathroom, Stairs 1, (Exterior Walls)	Good	Yes	Stop at First Positive
4		Plaster on Block Walls	Rooms 1, 2, 3, 4, 5, 6, Kitchen, Bathroom, Stairs 1, (Exterior Walls)	Good	Yes	Stop at First Positive
5		Plaster on Block Walls	Rooms 1, 2, 3, 4, 5, 6, Kitchen, Bathroom, Stairs 1, (Exterior Walls)	Good	Yes	Stop at First Positive
6		Drywall Wall System with Joint Compound	Rooms 1, 2, 3, 5, 6, Kitchen, Bathroom, Stairs 1, 2, Basement	Good	Yes	Stop at First Positive
7		Drywall Wall System with Joint Compound	Rooms 1, 2, 3, 5, 6, Kitchen, Bathroom, Stairs 1, 2, Basement	Good	Yes	Stop at First Positive
8		Drywall Wall System with Joint Compound	Rooms 1, 2, 3, 5, 6, Kitchen, Bathroom, Stairs 1, 2, Basement	Good	Yes	Stop at First Positive
9		Drywall Wall System with Joint Compound	Rooms 1, 2, 3, 5, 6, Kitchen, Bathroom, Stairs 1, 2, Basement	Good	Yes	Stop at First Positive
10		Drywall Wall System with Joint Compound	Rooms 1, 2, 3, 5, 6, Kitchen, Bathroom, Stairs 1, 2, Basement	Good	Yes	Stop at First Positive
11		Smeared Textured Surfacing Material on the Walls	Room 1	Good	Yes	Stop at First Positive
12		Smeared Textured Surfacing Material on the Walls	Room 1	Good	Yes	Stop at First Positive
13		Smeared Textured Surfacing Material on the Walls	Room 1	Good	Yes	Stop at First Positive
14		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 4, 5, 6, Kitchen, Stairs 1, Bathroom	Good	Yes	Stop at First Positive
15		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 4, 5, 6, Kitchen, Stairs 1, Bathroom	Good	Yes	Stop at First Positive
16		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 4, 5, 6, Kitchen, Stairs 1, Bathroom	Good	Yes	Stop at First Positive
17		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 4, 5, 6, Kitchen, Stairs 1, Bathroom	Good	Yes	Stop at First Positive
18		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 4, 5, 6, Kitchen, Stairs 1, Bathroom	Good	Yes	Stop at First Positive
19		Smooth Plaster on Lath Walls	Rooms 2, 4, 5, 6, Kitchen, Stairs 1, 3, Bathroom	Good	Yes	Stop at First Positive
20		Smooth Plaster on Lath Walls	Rooms 2, 4, 5, 6, Kitchen, Stairs 1, 3, Bathroom	Good	Yes	Stop at First Positive
21		Smooth Plaster on Lath Walls	Rooms 2, 4, 5, 6, Kitchen, Stairs 1, 3, Bathroom	Good	Yes	Stop at First Positive
22		Smooth Plaster on Lath Walls	Rooms 2, 4, 5, 6, Kitchen, Stairs 1, 3, Bathroom	Good	Yes	Stop at First Positive
23		Smooth Plaster on Lath Walls	Rooms 2, 4, 5, 6, Kitchen, Stairs 1, 3, Bathroom	Good	Yes	Stop at First Positive
24		Heavy Matted Textured Surfacing Material on the Ceiling	Room 1, 2	Good	Yes	Stop at First Positive
25		Heavy Matted Textured Surfacing Material on the Ceiling	Room 1, 2	Good	Yes	Stop at First Positive
26		Heavy Matted Textured Surfacing Material on the Ceiling	Room 1, 2	Good	Yes	Stop at First Positive
27		2'x4' Ceiling Tile Smooth	Kitchen	Good	Yes	Stop at First Positive
28		2'x4' Ceiling Tile Smooth	Kitchen	Good	Yes	Stop at First Positive
29		Popcorn Textured Surfacing Material	Stairs 2	Good	Yes	Stop at First Positive
30		Popcorn Textured Surfacing Material	Stairs 2	Good	Yes	Stop at First Positive
31		Popcorn Textured Surfacing Material	Stairs 2	Good	Yes	Stop at First Positive
32		Stippled Textured Surfacing Material	Stairs 2, Hall and Basement	Good	Yes	Stop at First Positive
33		Stippled Textured Surfacing Material	Stairs 2, Hall and Basement	Good	Yes	Stop at First Positive
34		Stippled Textured Surfacing Material	Stairs 2, Hall and Basement	Good	Yes	Stop at First Positive
35		12"x12" Solid Ceiling Tile	Room 4, 5, 6	Good	Yes	Stop at First Positive
36		12"x12" Solid Ceiling Tile	Room 4, 5, 6	Good	Yes	Stop at First Positive
37		Window Glaze	Exterior Windows	Good	Yes	Stop at First Positive
38		Window Glaze	Exterior Windows	Good	Yes	Stop at First Positive
39		Window Glaze	Exterior Windows	Good	Yes	Stop at First Positive
40		Skin Under Coat	Kitchen	Good	Yes	Stop at First Positive
41		Skin Under Coat	Kitchen	Good	Yes	Stop at First Positive

Type of Analysis: (PLM) TEM Point Count **Stop at First Positive** Turn Around Time: (Five (5) Day Turn)

Fax Results- 330-208-2799 Email Results- kreaman@hzwenv.com; ckowalski@hzwenv.com; cbiro@hzwenv.com

Relinquished by: (sign & print name)	Chris Biro	Date: 3/18/20
Received by:	3-19-20 10:10am	Date: