

# ***ASBESTOS SURVEY REPORT***

**City of Canton  
121 Fawcett Court NW, Canton, Ohio 44708**

**Parcel Number: 208289**

**April 2020**



**Prepared for:**

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

**Prepared by:**



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 121 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 121 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) 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

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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 121 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708. The 942 square feet, two (2)-story building with a full basement was built in 1915. The exterior construction of the building consists of vinyl siding, on wood siding, on paper house wrap, on wood plank, on wood stud. The roof consists of asphalt shingles over wooden beams and joists. Interior finishes within the Property are primarily walls, ceilings and partitions constructed of multi-layered plaster and drywall with various types of textured surfacing. The flooring consists of carpet and wood. The basement is constructed of masonry 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:

<b>General Damage Category</b>	<b>AHERA Damage Category</b>	<b>Criteria</b>
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

- Multi-Layered Drywall Walls
- Multi-Layered Drywall Ceilings
- Stippled Textured Surfacing Material on Ceilings
- Plaster on Lath Walls
- Plaster on Lath Ceilings
- 2'x4' Ceiling Tile
- Smooth Textured Surfacing Material on Walls
- Smeared Textured Surfacing Material on Walls
- Drywall System with Joint Compound
- 2'x2' Ceiling Tile Pinholes with Fissures
- Matted Textured Surfacing Material on Ceilings
- Fine Stippled Textured Surfacing Material on Ceilings
- Light Popcorn Textured Surfacing Material on Ceilings
- 12"x12" Ceiling Tile with Hockey Puck Mastic
- Heavy Stipple Textured Surfacing Material
- Duct Wrap
- Textured Drywall System w/ Joint Compound

Exterior

- Asphalt Shingles
- Paper House Wrap
- Window Glaze

A total of 54 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 54 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
- Asphalt Shingles – Assumed to be ACM

## **5.0 FINDINGS AND CONCLUSIONS**

Based on the site inspection and the analytical data from the 54 bulk samples collected, HZW concludes the following regarding the Property:

- Friable ACM identified as multi-layered drywall walls located in rooms 1, 2, 3, 4, 5, stairs 1, 2, and bathroom contains 0.75 – 1.75% chrysotile. Smeared textured surfacing material on walls located in room 3 contains 0.75% - 1.5% chrysotile. Heavy stipple textured surfacing material on ceilings located in the bathroom contains 1.0% - 1.25% chrysotile. *These materials were confirmed by using point count analysis.* Friable duct wrap located in the basement on one (1) boot 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 stipple textured surfacing material on ceilings located in rooms 1, 2, 3, 4, stairs 2 contains 1.0% chrysotile. Popcorn textured surfacing material on walls located in room 4 contains 0.50% – 0.75% chrysotile. 12" x 12" ceiling tile with mastic located in room 5 contains 0.75% - 1.0% chrysotile. Window glaze located on the exterior windows contains 0.75% - 1.0% chrysotile. These materials were confirmed by using point count analysis.
- No non-friable ACM was identified via sampling.
- No non-friable ACM which may become friable was ACM identified via sampling.
- Materials which were not sampled but assumed to be ACM include asphalt shingles located on the exterior roof of the house. These materials are in good condition. *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.

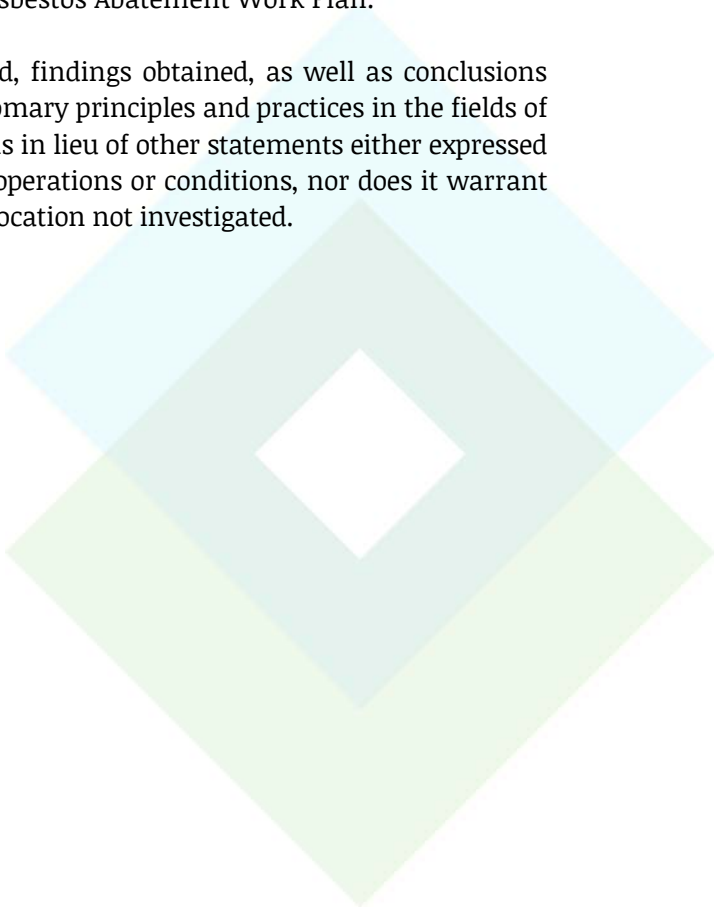
## **7.0 LIMITATIONS AND DISCLAIMER**

This report describes the locations of ACM identified in the Property located at 121 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.





Mr. Chuck Kessler

Asbestos Survey: 121 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708

April 13, 2020

Page 6

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:



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Craig Kowalski

Asbestos Hazard Abatement Specialist

AS32156

Asbestos Hazard Evaluation Specialist

ES35372



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Christopher J. Biro

Asbestos Hazard Abatement Specialist

AS31591

Asbestos Hazard Evaluation Specialist

ES36051

Report Reviewed By:

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Kevin Reaman

Akron Office Manager



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## ATTACHMENT 1

### DEFINITIONS & ACRONYMS

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## 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

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**ATTACHMENT 2**

**ASBESTOS BULK SAMPLING INFORMATION LOG AND PROPERTY  
FIGURE/SKETCH**

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### Asbestos Bulk Sample Information Log

Project Name:	EnviroScience Asbestos Inspections	HWZ Project Number:	A20017
Project Address:	121 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	0.75 - 1.75% Chrysotile	Multi-Layer Drywall Walls	Rooms 1, 2, 3, 4, 5, Stairs 1, 2, Bathroom	Good	Yes	Approx. 2,350 sf
2		Multi-Layer Drywall Walls	Rooms 1, 2, 3, 4, 5, Stairs 1, 2, Bathroom	Good	Yes	
3		Multi-Layer Drywall Walls	Rooms 1, 2, 3, 4, 5, Stairs 1, 2, Bathroom	Good	Yes	
4		Multi-Layer Drywall Walls	Rooms 1, 2, 3, 4, 5, Stairs 1, 2, Bathroom	Good	Yes	
5		Multi-Layer Drywall Walls	Rooms 1, 2, 3, 4, 5, Stairs 1, 2, Bathroom	Good	Yes	
6	None	Multi-Layer Drywall Ceilings	Rooms 1, 2, 3, 4, 5, Bathroom	Good	Yes	Approx. 665 sf
7		Multi-Layer Drywall Ceilings	Rooms 1, 2, 3, 4, 5, Bathroom	Good	Yes	
8		Multi-Layer Drywall Ceilings	Rooms 1, 2, 3, 4, 5, Bathroom	Good	Yes	
9	1.0% Chrysotile	Stipple Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, 4, Stairs 2	Good	Yes	Approx. 720 sf
10		Stipple Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, 4, Stairs 2	Good	Yes	
11		Stipple Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, 4, Stairs 2	Good	Yes	
12	None	Smooth Plaster on Lath Walls	Room 2 Closet, Kitchen	Good	Yes	Approx. 313 sf
13		Smooth Plaster on Lath Walls	Room 2 Closet, Kitchen	Good	Yes	
14		Smooth Plaster on Lath Walls	Room 2 Closet, Kitchen	Good	Yes	
15	None	Smooth Plaster on Lath Ceilings	Room 2 Closet	Good	Yes	Approx. 25 sf
16		Smooth Plaster on Lath Ceilings	Room 2 Closet	Good	Yes	
17		Smooth Plaster on Lath Ceilings	Room 2 Closet	Good	Yes	
18	None	2'x4' Ceiling Tile	Room 2 Closet	Good	Yes	Approx. 25 sf
19		No Sample				
20	None	Smooth Textured Surfacing Material on Walls	Rooms 1, 2, 5	Good	Yes	Approx. 1,340 sf
21		Smooth Textured Surfacing Material on Walls	Rooms 1, 2, 5	Good	Yes	
22		Smooth Textured Surfacing Material on Walls	Rooms 1, 2, 5	Good	Yes	
23		Smooth Textured Surfacing Material on Walls	Rooms 1, 2, 5	Good	Yes	
24		Smooth Textured Surfacing Material on Walls	Rooms 1, 2, 5	Good	Yes	
25	0.75% 1.5% Chrysotile	Smeared Textured Surfacing Material on Walls	Room 3	Good	Yes	Approx. 50 sf
26		Smeared Textured Surfacing Material on Walls	Room 3	Good	Yes	
27		Smeared Textured Surfacing Material on Walls	Room 3	Good	Yes	
28	None	Drywall System with Joint Compound	Rooms 2, 3, Kitchen, Stairs 2, Basement	Good	Yes	Approx. 305 sf
29		Drywall System with Joint Compound	Rooms 2, 3, Kitchen, Stairs 2, Basement	Good	Yes	
30		Drywall System with Joint Compound	Rooms 2, 3, Kitchen, Stairs 2, Basement	Good	Yes	
31	None	2'x2' Ceiling Tile with Pinholes and Fissures	Room 3	Good	Yes	Approx. 80 sf
32		2'x2' Ceiling Tile with Pinholes and Fissures	Room 3	Good	Yes	
33	None	Matted Textured Surfacing Material on Walls	Room 3, Kitchen	Good	Yes	Approx. 240 sf
34		Matted Textured Surfacing Material on Walls	Room 3, Kitchen	Good	Yes	
35		Matted Textured Surfacing Material on Walls	Room 3, Kitchen	Good	Yes	
36	None	Fine Stippled Textured Surfacing Material on Ceiling	Kitchen	Good	Yes	Approx. 40 sf
37		Fine Stippled Textured Surfacing Material on Ceiling	Kitchen	Good	Yes	
38		Fine Stippled Textured Surfacing Material on Ceiling	Kitchen	Good	Yes	
39	0.5% - 0.75% Chrysotile	Popcorn Textured Surfacing Material on Walls	Room 4	Good	Yes	Approx. 150 sf
40		Popcorn Textured Surfacing Material on Walls	Room 4	Good	Yes	
41		Popcorn Textured Surfacing Material on Walls	Room 4	Good	Yes	
42	0.75% - 1.0% Chrysotile	12'x12' Ceiling Tile with Mastic	Room 5	Good	Yes	Approx. 150 sf
43		12'x12' Ceiling Tile with Mastic	Room 5	Good	Yes	
44	1.0% - 1.25% Chrysotile	Heavy Stipple Textured Surfacing Material on Ceilings	Bathroom	Good	Yes	Approx. 120 sf
45		Heavy Stipple Textured Surfacing Material on Ceilings	Bathroom	Good	Yes	
46		Heavy Stipple Textured Surfacing Material on Ceilings	Bathroom	Good	Yes	
47	None	Textured Drywall System with Joint Compound	Basement	Good	Yes	Approx. 420 sf
48		Textured Drywall System with Joint Compound	Basement	Good	Yes	
49		Textured Drywall System with Joint Compound	Basement	Good	Yes	
50	0.75% - 1.0% Chrysotile	Window Glaze	Exterior Windows	Good	Yes	Approx. 22 sf
51		Window Glaze	Exterior Windows	Good	Yes	
52		Window Glaze	Exterior Windows	Good	Yes	
53	None	Paper House Wrap	Exterior Siding	Good	No	Approx. 2,290 sf
54		Paper House Wrap	Exterior Siding	Good	No	
	Assumed	Duct Wrap	1 HVAC Vent in the Basement	Good	Yes	Approx. 1 sf
	Assumed	Asphalt Shingles	Exterior Roof	Good	No	Approx. 1,240 sf

**NOTES.**

Red text is friable or may become friable RACM and must be abated before demolition of the structure.  
 Sample 19 was not analyzed, the lab reported the sample was not present when it was logged in.





**HZW ENVIRONMENTAL**  
CONSULTANTS, LLC

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Phone 440-357-1260 • 800-804-8484  
Fax 440-357-1510  
A Woman-Owned Business Enterprise

PROJECT 121 Fawcett Ct. NW

PROJECT NO. \_\_\_\_\_

PAGE NO. ES

FIELD REPRESENTATIVE CR/CB

SCALE \_\_\_\_\_

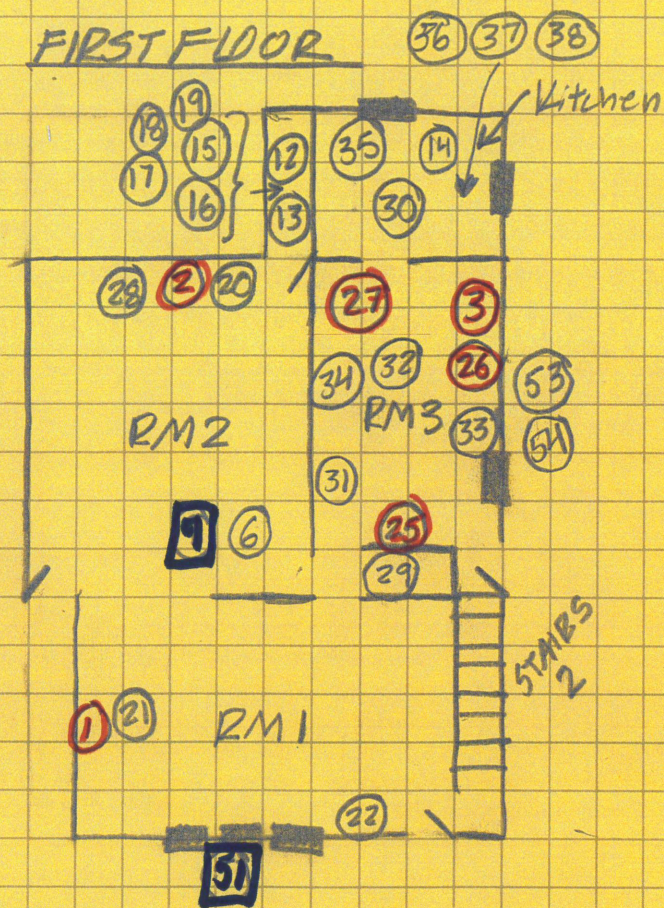
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DATE 3-18-20

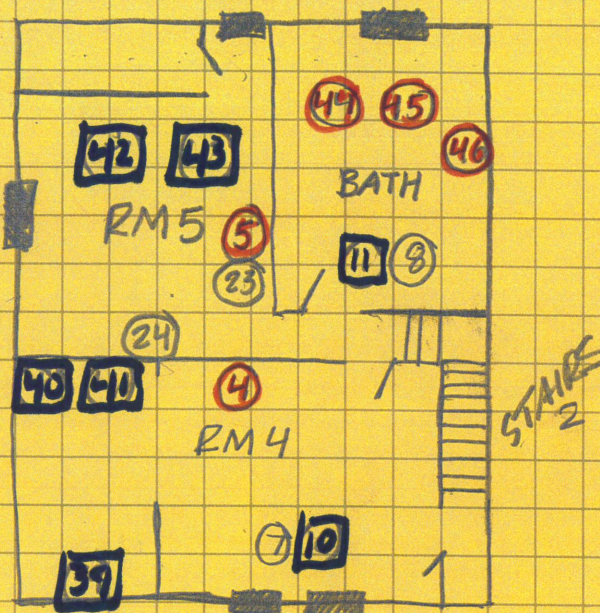
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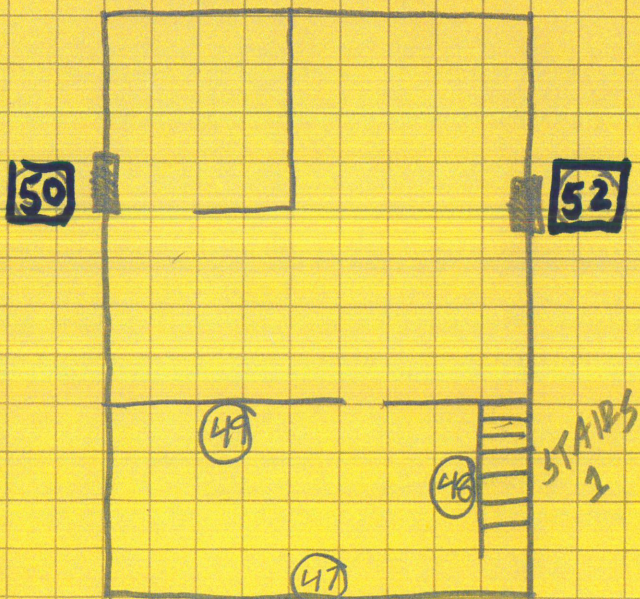
### FIRST FLOOR



### SECOND FLOOR



### BASEMENT



**9 Trace**

**① ACM**

Frable duct wrap located on one  
boiler located in basement is assumed  
to be ACM





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fax 330-208-2799  
A WOMAN OWNED BUSINESS ENTERPRISE

PROJECT

121 <sup>Lawrence</sup>  
CT, NW

PROJECT NO.

DATE

- 3-18-20

PAGE \_\_\_\_ OF \_\_\_\_

HZW REPRESENTATIVE CK / CB

### FACILITY CONSTRUCTION INFORMATION

Dimensions	31x21	Attic	<b>NOTES:</b> No Sink Coating Carpet, Ceramic Tile, Hard wood Floor No duct wrap except 1 Boot
Basement	Full. Block walls, concrete Floors		
Exterior Const.	Vinyl siding on wood siding on paper wrap on wood planks on wood stud.		
Other Structures			

### SUSPECT MATERIAL SUMMARY

Sample #	DESCRIPTION AND LOCATION OF SUSPECT BUILDING MATERIALS		Quantity
1-5	Multi layer Drywall Walls	RM 1, 2, 3, Stairs 2, RM 4, 5, Bath, Stairs 1	2,350
6-8	Multi Layer Drywall Ceilings	RM 1, 2, 3, 4, 5, Bath	665
9-11	Stipple TSM on Ceiling	RM 1, 2, 3, Stairs 2, RM 4	720
12-14	Plaster on Bath Walls	RM 2 closet, Kitchen	313
15-17	Plaster on Bath Ceilings	RM 2 closet	25
18-19	2x4 CT	RM 2 closet	25
20-24	Smooth TSM on Walls	RM 1, 2, 5	1,340
25-27	Smearred TSM on Walls	RM 3	50
28-30	Drywall System w/ JC	RM 2, RM 3, Kitchen Ceiling, Stairs 2 Ceiling, Basement	305
31-32	2x2 CT Pinholes & Fissures	RM 3	80
33-35	Matted TSM on Walls	RM 3, Kitchen	240
36-38	Fine Stipple TSM on Ceiling	Kitchen	40
39-41	Light Popcorn TSM on Walls	RM 4	150
42-43	12x12 CT w/ Hocky Puck	RM 5	150
44-46	Heavy Stipple TSM	Bath (65sf)	120
Assume	Duct Wrap	1 Boot in Basement	15f
47-49	Textured Drywall System w/ JC	Basement	420
50-52	Window Glaze	Ext. Windows	21.6
	Asphalt Shingles	Roof	

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

53-54 Paper House Wrap

2,250

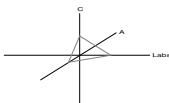
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**ATTACHMENT 3**

**LABORATORY ANALYTICAL REPORT FOR BULK SAMPLES COLLECTED**

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## **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:**  
EnviroScience Asbestos  
Inspection; 121 Fawcett Ct  
NW Canton  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031380B

**Date:** 3/28/2020  
**Samples Received:** 3/27/2020  
**Date Of Sampling:**  
**Purchase Order #:**

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
1	1-1	Tan Surfaced White Plaster	N	0.75% Chrysotile
2	2-1	Tan Surfaced White Plaster	N	0.75% Chrysotile
3	3-1	Tan Surfaced White Plaster	N	1.75% Chrysotile

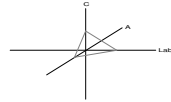
This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

Approved Signatories:

Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams



## 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:**  
EnviroScience Asbestos  
Inspection; 121 Fawcett Ct  
NW Canton  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031380B

**Date:** 3/28/2020  
**Samples Received:** 3/27/2020  
**Date Of Sampling:**  
**Purchase Order #:**

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
10	10-2	White Plaster	Y	1.00% Chrysotile
25	25-2	White Plaster	Y	0.75% Chrysotile
26	26-2	White Plaster	Y	1.50% Chrysotile
39	39-1	White Textured Surfacing	Y	0.75% Chrysotile
40	40-1	Blue Textured Surfacing	Y	0.75% Chrysotile
41	41-1	White Textured Surfacing	Y	0.50% Chrysotile
42	42-3	Brown Mastic	Y	1.00% Chrysotile

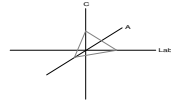
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Approved Signatories:

Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams



**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:**  
EnviroScience Asbestos  
Inspection; 121 Fawcett Ct  
NW Canton  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031380B

**Date:** 3/28/2020  
**Samples Received:** 3/27/2020  
**Date Of Sampling:**  
**Purchase Order #:**

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
43	43-3	Brown Mastic	Y	0.75% Chrysotile
44	44-1	White Surfaced White Plaster	N	1.00% Chrysotile
45	45-1	White Surfaced White Plaster	N	1.25% Chrysotile
50	50-1	White Surfaced Tan Sealant	N	0.75% Chrysotile
51	51-1	White Surfaced Tan Sealant	N	0.75% Chrysotile
52	52-1	White Surfaced Tan Sealant	N	1.00% Chrysotile

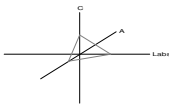
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Approved Signatories:

Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams



## **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:** EnviroScience Asbestos Inspection; 121 Fawcett Ct  
**Reference #:** CBR20031380Amend **Date:** 3/28/2020

#### **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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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.

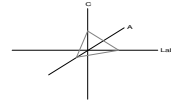
Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

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 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 AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.



## Overview of Project Sample Material Containing Asbestos

**Customer Project:** EnviroScience Asbestos Inspection; 121 Fawcett Ct | **CA Labs Project #:** CBR20031380Amend

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
----------	---------	--	--	--

1	1-1	Tan Surfaced White Plaster	2% Chrysotile
---	-----	----------------------------	---------------

2	2-1	Tan Surfaced White Plaster	2% Chrysotile
---	-----	----------------------------	---------------

3	3-1	Tan Surfaced White Plaster	2% Chrysotile
---	-----	----------------------------	---------------

10	10-2	White Plaster	2% Chrysotile
----	------	---------------	---------------

19	19-1	No Sample Submitted	
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25	25-2	White Plaster	2% Chrysotile
----	------	---------------	---------------

26	26-2	White Plaster	2% Chrysotile
----	------	---------------	---------------

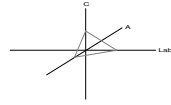
39	39-1	White Textured Surfacing	2% Chrysotile
----	------	--------------------------	---------------

**Tan Surfaced White Plaster**  
**No Sample Submitted**  
**White Textured Surfacing**  
**Blue Textured Surfacing**  
**Brown Mastic**  
**White Surfaced White Plaster**  
**White Surfaced Tan Sealant**

### **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 - wollastonite	
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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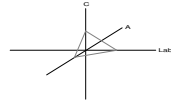
## Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>		EnviroScience Asbestos Inspection; 121 Fawcett Ct   <b>CA Labs Project #:</b> CBR20031380Amend		
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
40	40-1	Blue Textured Surfacing	2% Chrysotile	
41	41-1	White Textured Surfacing	2% Chrysotile	
42	42-3	Brown Mastic	2% Chrysotile	
43	43-3	Brown Mastic	2% Chrysotile	
44	44-1	White Surfaced White Plaster	2% Chrysotile	
45	45-1	White Surfaced White Plaster	2% Chrysotile	
50	50-1	White Surfaced Tan Sealant	2% Chrysotile	
51	51-1	White Surfaced Tan Sealant	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 - wollastonite	
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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## Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>		EnviroScience Asbestos Inspection; 121 Fawcett Ct   <b>CA Labs Project #:</b> CBR20031380Amend		
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

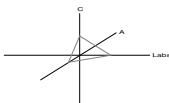
52	52-1	White Surfaced Tan Sealant	2% Chrysotile
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### **Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

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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## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: Craig Kowalski

**HZW Environmental**

1234 Weathervane Lane, Suite 110  
Akron, OH 44313

**Customer Project:**

EnviroScience Asbestos  
Inspection; 121 Fawcett Ct  
NW Canton

**Turnaround Time:** 5 day

**CA Labs Project #:**

CBR20031380Amend

**Date:** 3/28/2020

**Samples Received:** 3/19/2020

**Date Of Sampling:** 3/18/2020

**Purchase Order #:**

Phone # 330-208-2717

Fax # 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	---	-------------------------------	--	--------------------------------------	-------------------------------

1		1-1	Tan Surfaced White Plaster	N	2% Chrysotile		98% qu,ma,bi,ca
---	--	-----	----------------------------	---	---------------	--	-----------------

		1-2	White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
--	--	-----	--------------------------	---	---------------	--------	-----------

2		2-1	Tan Surfaced White Plaster	N	2% Chrysotile		98% qu, ma, bi, ca
---	--	-----	----------------------------	---	---------------	--	--------------------

		2-2	White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
--	--	-----	--------------------------	---	---------------	--------	-----------

3		3-1	Tan Surfaced White Plaster	N	2% Chrysotile		98% qu, ma, bi, ca
---	--	-----	----------------------------	---	---------------	--	--------------------

		3-2	White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
--	--	-----	--------------------------	---	---------------	--------	-----------

4		4-1	Green Surfaced White Plaster	N	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:

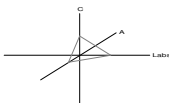
Sidney Pinkerton  
Analyst

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



## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: Craig Kowalski

**HZW Environmental**

1234 Weathervane Lane, Suite 110  
Akron, OH 44313

**Customer Project:**

EnviroScience Asbestos  
Inspection; 121 Fawcett Ct  
NW Canton

**Turnaround Time:** 5 day

**CA Labs Project #:**

CBR20031380Amend

**Date:** 3/28/2020

**Samples Received:** 3/19/2020

**Date Of Sampling:** 3/18/2020

**Purchase Order #:**

Phone # 330-208-2717

Fax # 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	---	-------------------------------	--	--------------------------------------	-------------------------------

4-2	White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
-----	--------------------------	---	---------------	--------	-----------

5	5-1	White Surfaced White Plaster	N	Positive Stop
---	-----	------------------------------	---	---------------

5-2	White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
-----	--------------------------	---	---------------	--------	-----------

6	6-1	White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
---	-----	--------------------------	---	---------------	--------	-----------

7	10	7-1	Tan Surfaced White Plaster	N	None Detected	100% qu,ma,bi,ca
---	----	-----	----------------------------	---	---------------	---------------------

7-2	White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
-----	--------------------------	---	---------------	--------	-----------

8	10	8-1	Tan Surfaced White Plaster	N	None Detected	100% qu,ma,bi,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:

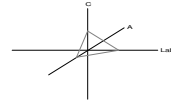
Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

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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



## Polarized Light Asbestiform Materials Characterization

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

**Customer Project:**  
EnviroScience Asbestos  
Inspection; 121 Fawcett Ct  
NW Canton  
**Turnaround Time:** 5 day

**CA Labs Project #:**  
CBR20031380Amend

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

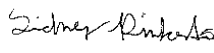
**Date:** 3/28/2020  
**Samples Received:** 3/19/2020  
**Date Of Sampling:** 3/18/2020  
**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		8-2	White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
9		9-1	White Textured Surfacing	Y	None Detected		100% qu,mi,bi,ca
			White Compound (beneath tape)	Y	None Detected		100% qu,mi,ca
10		10-1	White Textured Surfacing	Y	None Detected		100% qu,mi,bi,ca
		10-2	White Plaster	Y	2% Chrysotile		98% qu,ma,ca
11		11-1	White Textured Surfacing	Y	None Detected		100% qu,mi,bi,ca
12		12-1	White Surfaced Tan Plaster	N	None Detected		100% qu,ma,bi,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:

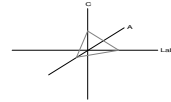
  
Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

  
Laboratory Director  
Chris Williams

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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



## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: Craig Kowalski

**HZW Environmental**

1234 Weathervane Lane, Suite 110  
Akron, OH 44313

**Customer Project:**

EnviroScience Asbestos  
Inspection; 121 Fawcett Ct  
NW Canton

**Turnaround Time:** 5 day

**CA Labs Project #:**

CBR20031380Amend

**Date:** 3/28/2020

**Samples Received:** 3/19/2020

**Date Of Sampling:** 3/18/2020

**Purchase Order #:**

Phone # 330-208-2717

Fax # 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13		13-1	White Surfaced Tan Plaster	N	None Detected		100% qu,ma,bi,ca
14		14-1	White Surfaced Tan Plaster	N	None Detected		100% qu,ma,bi,ca
15		15-1	Green Surfaced White Plaster	N	None Detected		100% qu,ma,bi,ca
16		16-1	Green Surfaced White Plaster	N	None Detected		100% qu,ma,bi,ca
17		17-1	Green Surfaced White Plaster	N	None Detected		100% qu,ma,bi,ca
18		18-1	White Surfacing	Y	None Detected		100% qu,bi,ca
		18-2	Tan Ceiling Tile	Y	None Detected	20% fg 70% ce	10% qu,pe

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  
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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

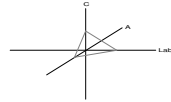
Sidney Pinkerton  
Analyst

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1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



## Polarized Light Asbestiform Materials Characterization

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

**Customer Project:**  
EnviroScience Asbestos  
Inspection; 121 Fawcett Ct  
NW Canton  
**Turnaround Time:** 5 day

**CA Labs Project #:**  
CBR20031380Amend

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

**Date:** 3/28/2020  
**Samples Received:** 3/19/2020  
**Date Of Sampling:** 3/18/2020  
**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
19			19-1 No Sample Submitted				
20			Orange Surfaced White 20-1 Compound	N	None Detected		100% qu,mi,bi,ca
21			21-1 Tan Surfaced White Compound	N	None Detected		100% qu,mi,bi,ca
22			Orange Surfaced White 22-1 Compound	N	None Detected		100% qu,mi,bi,ca
23			23-1 Tan Surfaced White Compound	N	None Detected		100% qu,mi,bi,ca
24			24-1 Tan Surfaced White Compound	N	None Detected		100% qu,mi,bi,ca
25			25-1 White Finishing Plaster	Y	None Detected		100% qu,gy,ma,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:

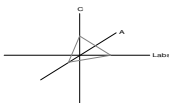
Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers  
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5. Not enough sample to analyze

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested



## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: Craig Kowalski

**HZW Environmental**

1234 Weathervane Lane, Suite 110  
Akron, OH 44313

**Customer Project:**

EnviroScience Asbestos  
Inspection; 121 Fawcett Ct  
NW Canton

**Turnaround Time:** 5 day

**CA Labs Project #:**

CBR20031380Amend

**Date:** 3/28/2020

**Samples Received:** 3/19/2020

**Date Of Sampling:** 3/18/2020

**Purchase Order #:**

Phone # 330-208-2717

Fax # 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			25-2 White Plaster	Y	2% Chrysotile		98% qu,ma,ca
26		26-1	White Finishing Plaster	Y	None Detected		100% qu,gy,ma,ca
		26-2	White Plaster	Y	2% Chrysotile		98% qu, ma, ca
27		27-1	White Finishing Plaster	Y	None Detected		100% qu,gy,ma,ca
		27-2	White Plaster	Y	Positive Stop		
28		28-1	Green Surfaced White Compound	N	None Detected		100% qu,mi,bi,ca
		28-2	White Compound (beneath tape)	Y	None Detected		100% qu,mi,ca

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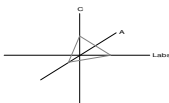
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Fax # 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			28-3 White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
			Green Surfaced White				
29		29-1	Compound	N	None Detected		100% qu,mi,bi,ca
			White Compound (beneath				
		29-2	tape)	Y	None Detected		100% qu,mi,ca
			29-3 White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
			Green Surfaced White				
30		30-1	Compound	N	None Detected		100% qu,mi,bi,ca
			White Compound (beneath				
		30-2	tape)	Y	None Detected		100% qu,mi,ca
			30-3 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)  
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Approved Signatories:

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Analyst

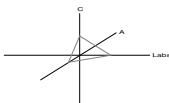
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Alicia Stretz

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Fax # 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
31		31-1	White Surfacing	Y	None Detected		100% qu,bi,ca
		31-2	Tan Ceiling Tile	Y	None Detected	20% fg 70% ce	10% qu,pe
32		32-1	White Surfacing	Y	None Detected		100% qu,bi,ca
		32-2	Tan Ceiling Tile	Y	None Detected	20% fg 70% ce	10% qu,pe
33		33-1	Red Surfaced White Compound	N	None Detected		100% qu,mi,bi,ca
34		34-1	Red Surfaced White Compound	N	None Detected		100% qu,mi,bi,ca
35		35-1	Red Surfaced White Compound	N	None Detected		100% qu,mi,bi,ca

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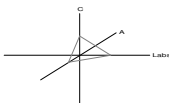
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
36		36-1	White Surfaced White Compound	N	None Detected		100% qu,mi,bi,ca
37		37-1	Tan Surfaced White Compound	N	None Detected		100% qu,mi,bi,ca
38		38-1	White Surfaced White Compound	N	None Detected		100% qu,mi,bi,ca
39		39-1	White Textured Surfacing	Y	2% Chrysotile		98% qu,mi,bi,ca
40		40-1	Blue Textured Surfacing	Y	2% Chrysotile		98% qu, mi, ma, bi, ca
41		41-1	White Textured Surfacing	Y	2% Chrysotile		98% qu, mi, ma, bi, ca
42		42-1	White Surfacing	Y	None Detected		100% qu,bi

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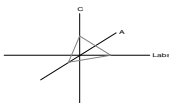
Sidney Pinkerton  
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Phone # 330-208-2717

Fax # 330-208-2799

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
42-2	Tan Ceiling Tile			Y	None Detected	100% ce	
42-3	Brown Mastic			Y	2% Chrysotile		98% qu,bi
43	43-1 White Surfacing			Y	None Detected		100% qu,bi
43-2	Tan Ceiling Tile			Y	None Detected	100% ce	
43-3	Brown Mastic			Y	2% Chrysotile		98% qu, bi
44	44-1 White Surfaced White Plaster			N	2% Chrysotile		98% qu,ma,bi,ca
45	45-1 White Surfaced White Plaster			N	2% Chrysotile		98% qu, ma, bi, 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.

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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

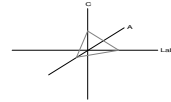
Sidney Pinkerton  
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**HZW Environmental**  
1234 Weathervane Lane, Suite 110  
Akron, OH 44313

**Customer Project:**  
EnviroScience Asbestos  
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CBR20031380Amend

Phone # 330-208-2717  
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**Date:** 3/28/2020  
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
46		46-1	White Surfaced White Plaster	N	Positive Stop		
47		47-1	White Textured Surfacing	Y	None Detected		100% qu,mi,bi,ca
			White Compound (beneath tape)	N	None Detected		100% qu,mi,ca
		47-3	White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
48		48-1	White Textured Surfacing	Y	None Detected		100% qu,mi,bi,ca
		48-2	White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
49		49-1	White Textured Surfacing	Y	None Detected		100% qu,mi,bi,ca

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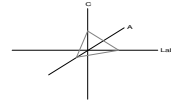
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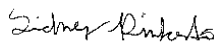
**Date:** 3/28/2020  
**Samples Received:** 3/19/2020  
**Date Of Sampling:** 3/18/2020  
**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	49-2		White Drywall with Paper	N	None Detected	10% ce	90% qu,gy
50	50-1		White Surfaced Tan Sealant	N	2% Chrysotile		98% qu,ma,bi,ca
51	51-1		White Surfaced Tan Sealant	N	2% Chrysotile		98% qu, ma, bi, ca
52	52-1		White Surfaced Tan Sealant	N	2% Chrysotile		98% qu, ma, bi, ca
53 (Not on COC)	53-1		Brown Wrap	Y	None Detected	100% ce	
54 (Not on COC)	54-1		Brown Wrap	Y	None Detected	100% ce	


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CBR 20031380

Project Name:		Asbestos Bulk Sample Chain of Custody		H2M Project Number: A20017		
Project Address:		EnviroScience Asbestos Inspections 121 Fawcett Ct. NW, Canton, Ohio 44708		Sample Collection Date: 3/18/2020		
Sample #	HA	Material Description	Location	Condition	Verifiable (Y/N)	Comment
1		Multi-Layer Drywall Walls	Rooms 1, 2, 3, 4, 5, Stairs 1, 2, Bathroom	Good	Yes	Stop at First Positive
2		Multi-Layer Drywall Walls	Rooms 1, 2, 3, 4, 5, Stairs 1, 2, Bathroom	Good	Yes	Stop at First Positive
3		Multi-Layer Drywall Walls	Rooms 1, 2, 3, 4, 5, Stairs 1, 2, Bathroom	Good	Yes	Stop at First Positive
4		Multi-Layer Drywall Walls	Rooms 1, 2, 3, 4, 5, Stairs 1, 2, Bathroom	Good	Yes	Stop at First Positive
5		Multi-Layer Drywall Walls	Rooms 1, 2, 3, 4, 5, Stairs 1, 2, Bathroom	Good	Yes	Stop at First Positive
6		Multi-Layer Drywall Ceilings	Rooms 1, 2, 3, 4, 5, Bathroom	Good	Yes	Stop at First Positive
7		Multi-Layer Drywall Ceilings	Rooms 1, 2, 3, 4, 5, Bathroom	Good	Yes	Stop at First Positive
8		Stipple Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, 4, 5, Bathroom	Good	Yes	Stop at First Positive
9		Stipple Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, 4, Stairs 2	Good	Yes	Stop at First Positive
10		Stipple Textured Surfacing Material on Ceilings	Rooms 1, 2, 3, 4, Stairs 2	Good	Yes	Stop at First Positive
11		Stipple Textured Surfacing Material on Ceilings	Room 2 Closet, Kitchen	Good	Yes	Stop at First Positive
12		Smooth Plaster on Lath Walls	Room 2 Closet, Kitchen	Good	Yes	Stop at First Positive
13		Smooth Plaster on Lath Walls	Room 2 Closet, Kitchen	Good	Yes	Stop at First Positive
14		Smooth Plaster on Lath Walls	Room 2 Closet, Kitchen	Good	Yes	Stop at First Positive
15		Smooth Plaster on Lath Ceilings	Room 2 Closet	Good	Yes	Stop at First Positive
16		Smooth Plaster on Lath Ceilings	Room 2 Closet	Good	Yes	Stop at First Positive
17		Smooth Plaster on Lath Ceilings	Room 2 Closet	Good	Yes	Stop at First Positive
18		2x4 Ceiling Tile	Room 2 Closet	Good	Yes	Stop at First Positive
19		2x4 Ceiling Tile	Room 2 Closet	Good	Yes	Stop at First Positive
20		Smooth Textured Surfacing Material on Walls	Room 2 Closet	Good	Yes	Stop at First Positive
21		Smooth Textured Surfacing Material on Walls	Rooms 1, 2, 5	Good	Yes	Stop at First Positive
22		Smooth Textured Surfacing Material on Walls	Rooms 1, 2, 5	Good	Yes	Stop at First Positive
23		Smooth Textured Surfacing Material on Walls	Rooms 1, 2, 5	Good	Yes	Stop at First Positive
24		Smooth Textured Surfacing Material on Walls	Rooms 1, 2, 5	Good	Yes	Stop at First Positive
25		Smooth Textured Surfacing Material on Walls	Rooms 1, 2, 5	Good	Yes	Stop at First Positive
26		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
27		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
28		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
29		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
30		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
31		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
32		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
33		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
34		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
35		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
36		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
37		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
38		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
39		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
40		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
41		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
42		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
43		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
44		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
45		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
46		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
47		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
48		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
49		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
50		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
51		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive
52		Smooth Textured Surfacing Material on Walls	Room 3	Good	Yes	Stop at First Positive

Reinquished by (Sign & Print Name) *Chris Brio* Date: *3-18-20*  
Received By: *Chris Brio* Date: *3-18-20*

Turn Around Time: *5 Day Turn*  
Email Results: *kreaman@h2menv.com; ckowalski@h2menv.com*