

ASBESTOS SURVEY REPORT

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

Parcel Number: 235897

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 129 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 129 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

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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 129 Fawcett Ct. NW, Canton, Stark, County, Ohio 44708. The 1,176 square feet, two (2)-story building with a full basement was built in 1901. The exterior construction of the building consists of vinyl siding, on shingle siding, on fiberboard, on wood siding, 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 plaster on lath and drywall with various types of textured surfacing. The flooring consists of carpet, wood laminate, and floor tile. The basement is constructed of terracotta block walls with concrete floors.

There is a 10-foot by 10-foot, attached shed located behind the residence. The exterior construction of the shed consists of wood siding on wood stud. The roof consists of asphalt shingles over wooden beams and joists. 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

- Smooth Plaster on Lath on Walls
- Smooth Plaster on Lath on Ceilings
- Heavy Stipple Textured Surfacing Material on Ceilings
- Stipple Textured Surfacing Material on Walls and Ceilings
- Drywall System with Joint Compound
- Vinyl Floor Sheet with Mastic
- Dripping Textured Surfacing Material on Walls
- 12" x 12" White Floor Tile with Mastic
- 12" x 12" Beige Floor Tile with Mastic
- Stone Floor Sheet with Mastic
- Thin Drywall
- Plaster on Brick

Exterior

- Asphalt Shingles
- Asphalt Siding Shingle
- Window Glaze

A total of 32 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 32 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 (Multiple Types) – Assumed to be ACM
- Floor Sheet with Mastic (Multiple Types) – Assume 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 32 bulk samples collected, HZW concludes the following regarding the Property:

- Friable ACM identified as duct wrap located in the basement and on the duct runs throughout the house is assumed to be ACM. This material is RACM and must be abated before demolition activities.
- No friable material containing trace amounts of asbestos (1% or less) was identified via sampling.
- No non-friable ACM was identified via sampling.
- No non-friable ACM which may become friable ACM was identified via sampling.
- Materials which were not sampled but assumed to be ACM include vinyl floor sheet with mastic located in the bathroom, kitchen and room 4, 12" x 12" white floor tile with mastic located in the kitchen, 12" x 12" beige floor tile with mastic located in the room 4, stone floor sheet with mastic located in the entry, and asphalt shingles located on the exterior roof of the house and shed. *These materials are in good condition. Vinyl floor sheet with mastic, 12" x 12" white floor tile with mastic, 12" x 12" beige floor tile with mastic, stone floor sheet 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 129 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

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 Reaman
Akron Office Manager



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.



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**

Asbestos Bulk Sample Information Log

Project Name:	EnviroScience Asbestos Inspections	HZW Project Number:	A20017
Project Address:	129 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	None	Smooth Plaster on Lath Walls	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Approx. 3,950 sf
2		Smooth Plaster on Lath Walls	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	
3		Smooth Plaster on Lath Walls	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	
4		Smooth Plaster on Lath Walls	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	
5		Smooth Plaster on Lath Walls	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	
6	None	Smooth Plaster on Lath Ceilings	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Approx. 1,430 sf
7		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	
8		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	
9		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	
10		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	
11	None	Heavy Stipple Textured Surfacing Material on Ceilings	Room 1	Good	Yes	Approx. 300 sf
12		Heavy Stipple Textured Surfacing Material on Ceilings	Room 1	Good	Yes	
13		Heavy Stipple Textured Surfacing Material on Ceilings	Room 1	Good	Yes	
14	None	Stipple Textured Surfacing Material on Walls and Ceilings	Rooms 2, 3, 4, 5, 6, Stairs 2, Bathroom, Kitchen	Good	Yes	Approx. 3,800 sf
15		Stipple Textured Surfacing Material on Walls and Ceilings	Rooms 2, 3, 4, 5, 6, Stairs 2, Bathroom, Kitchen	Good	Yes	
16		Stipple Textured Surfacing Material on Walls and Ceilings	Rooms 2, 3, 4, 5, 6, Stairs 2, Bathroom, Kitchen	Good	Yes	
17		Stipple Textured Surfacing Material on Walls and Ceilings	Rooms 2, 3, 4, 5, 6, Stairs 2, Bathroom, Kitchen	Good	Yes	
18		Stipple Textured Surfacing Material on Walls and Ceilings	Rooms 2, 3, 4, 5, 6, Stairs 2, Bathroom, Kitchen	Good	Yes	
19	None	Drywall System with Joint Compound	Room 4, Bathroom, Kitchen	Good	Yes	Approx. 675 sf
20		Drywall System with Joint Compound	Room 4, Bathroom, Kitchen	Good	Yes	
21		Drywall System with Joint Compound	Room 4, Bathroom, Kitchen	Good	Yes	
22	None	Dripping Textured Surfacing Material	Room 3 and Hall	Good	Yes	Approx. 425 sf
23		Dripping Textured Surfacing Material	Room 3 and Hall	Good	Yes	
24		Dripping Textured Surfacing Material	Room 3 and Hall	Good	Yes	
25	None	Thin Drywall	Room 6 Closet	Good	Yes	Approx. 100 sf
26		Thin Drywall	Room 6 Closet	Good	Yes	
27		Thin Drywall	Room 6 Closet	Good	Yes	
28	None	Plaster on Brick	Room 3 Closet, Room 5	Good	Yes	Approx. 55 sf
29		Plaster on Brick	Room 3 Closet, Room 5	Good	Yes	
30		Plaster on Brick	Room 3 Closet, Room 5	Good	Yes	
31	None	Asphalt Shingle Siding	Exterior Siding	Good	No	Approx. 2,325 sf
32		Asphalt Shingle Siding	Exterior Siding	Good	No	
	Assumed	Vinyl Floor Sheet with Mastic	Bathroom, Kitchen and Room 4	Good	No	Approx. 675 sf
	Assumed	12"x12" White Floor Tile with Mastic	Kitchen	Good	No	Approx. 120 sf
	Assumed	12"x12" Beige Floor Tile with Mastic	Room 4	Good	No	Approx. 75 sf
	Assumed	Stone Floor Sheet with Mastic	Entry	Good	No	Approx. 9 sf
	Assumed	Duct Wrap	Duct Runs Only	Good	Yes	Approx. 240 sf
	Assumed	Asphalt Shingles	Exterior Roof House and Shed	Good	No	Approx. 1,400 sf

NOTES.

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



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A Woman-Owned Business Enterprise

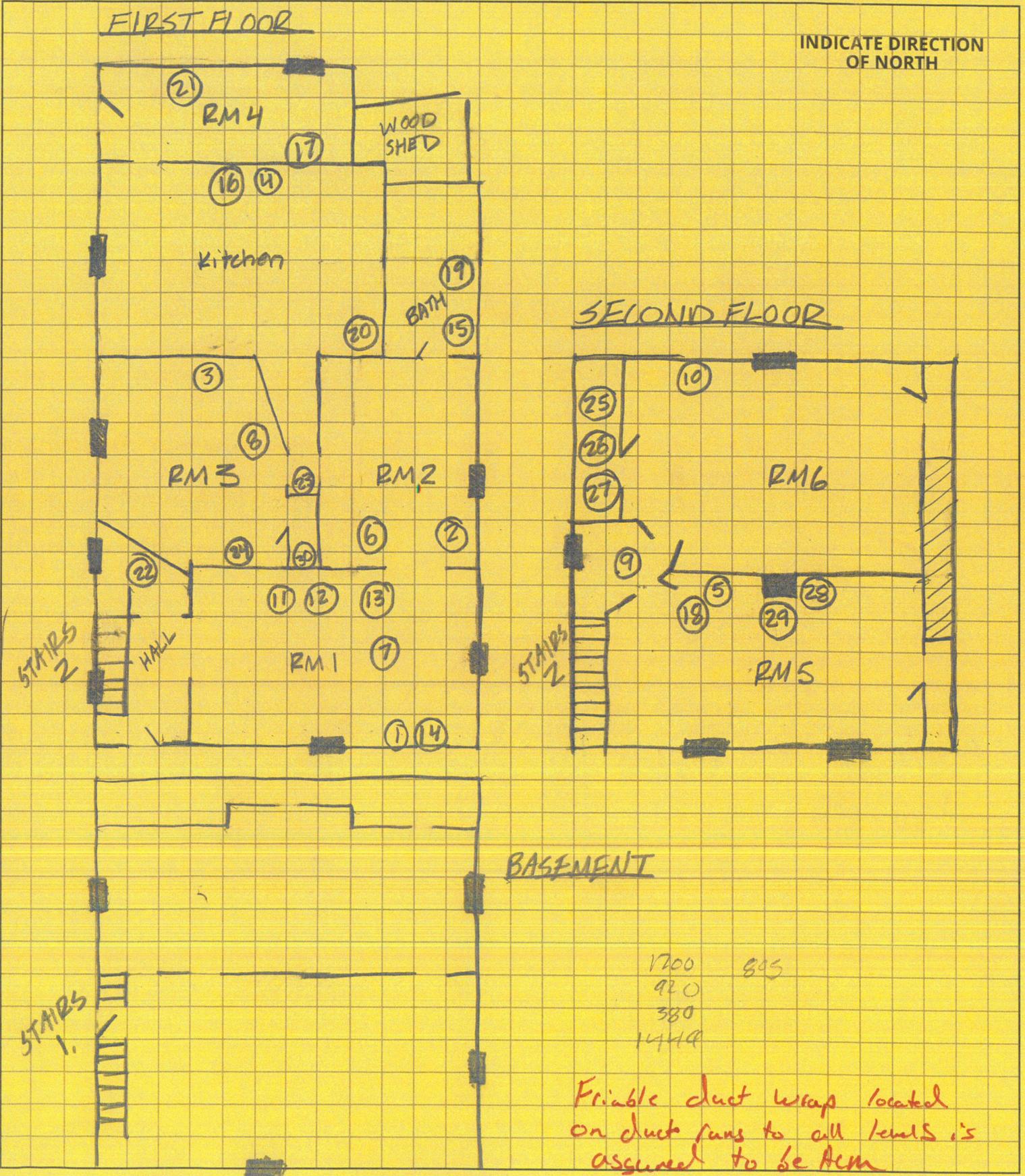
PROJECT 129 Fawcett CT. NW

PROJECT NO. _____

PAGE NO. ES OF _____

FIELD REPRESENTATIVE CK/CB DATE 3-18-20

SCALE 23x35
15' add





HZW Environmental Consultants

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 phone 330-208-2717 - 800-804-8484
 fax 330-208-2799
 A WOMAN OWNED BUSINESS ENTERPRISE

PROJECT 129 Fawcett

PROJECT NO. _____

DATE _____ PAGE _____ OF _____

HZW REPRESENTATIVE CK / CB

FACILITY CONSTRUCTION INFORMATION

Dimensions	Attic	<u>None</u>	NOTES: <u>Newer Vinyl + Metal windows</u>
Basement	<u>Full Tola tile Block / Brick Concrete Floors</u>		
Exterior Const.	<u>Vinyl on Shingle on fiberboard on wood siding on wood stud.</u>		
Other Structures	<u>Wood Shed w/ Shingles</u>		

SUSPECT MATERIAL SUMMARY

Sample #	DESCRIPTION AND LOCATION OF SUSPECT BUILDING MATERIALS	Quantity
1-5	<u>Smooth Plaster on Bath Walls RM 1, 2, 3, 4, 5, 6 Kitchen, Stairs 2, 1</u>	<u>3,950</u>
6-10	<u>Smooth Plaster on Bath Ceilings RM 1, 2, 3, 5, 6 Kitchen, Stairs 2, 1</u>	<u>1,430</u>
11-13	<u>Heavy Stipple TSM on Ceiling RM 1</u>	<u>300</u>
14-18	<u>Stipple TSM on ^{walls} Ceilings RM 2, 3, 4, 5, 6 Bath, Kitchen, Stairs 2</u>	<u>3,900</u>
19-21	<u>Drywall System w/ JLC Bath, Kitchen, RM 4</u> <u>150 300 225</u>	<u>675</u>
Assume	<u>Vinyl Floor Sheet w/ Mastic Bath, Kitchen, RM 4</u>	<u>160</u>
22-24	<u>Dripping TSM on Walls RM 3, Hall</u>	<u>425</u>
Assume	<u>12x12 White FT w/ Mastic Kitchen.</u>	<u>120</u>
Assume	<u>12x12 Beige FT w/ Mastic RM 4</u>	<u>75</u>
Assume	<u>Stone Floor Sheet w/ Mastic Entry</u>	<u>9</u>
25-27	<u>Thin Drywall RM 6 Closet</u>	<u>100</u>
28-30	<u>Plaster on Brick RM 5, RM 3 Closet</u>	<u>55</u>
Assume	<u>Duct Wrap Not Basement, Runs Only</u>	<u>240</u>
Assume	<u>Asphalt Shingles Roof</u>	<u>1400</u>
31-32	<u>Asphalt Shingle Siding Ext. Siding.</u>	<u>2325</u> <u>700</u>

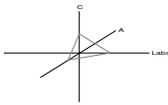
NOTE: Quantities are approximate and listed in (ft²). "TSM" = Textured Surfacing Material. "FT" = Floor Tile. "FS" = Floor Sheet. "CT" = Ceiling Tile.

ATTACHMENT 3

LABORATORY ANALYTICAL REPORT FOR BULK SAMPLES COLLECTED

CA Labs
Dedicated to
Quality

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



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: 129 Fawcett Ct. NW Canton, OH 44708

Reference #: CBR20031378

Date: 3/25/2020

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.

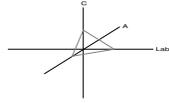
Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In 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 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 Industrplex, 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

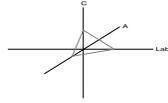
Customer Project:	129 Fawcett Ct. NW Canton, OH 44708	CA Labs Project #:	CBR20031378
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent
			List of Affected Building Material Types

No Asbestos Detected.

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

CA Labs Project #:
 CBR20031378
Date: 3/25/2020
Samples Received: 3/19/2020
Date Of Sampling: 3/18/2020
Purchase Order #: A20017

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

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
1		1-1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		1-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
2		2-1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		2-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
3		3-1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		3-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
4		4-1	White Surfaced Gray 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:

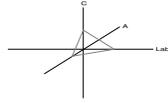
Daniel LaCour
 Analyst

Senior Analyst
 Alicia Stretz

Laboratory Director
 Chris Williams

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

CA Labs Project #:
 CBR20031378
Date: 3/25/2020
Samples Received: 3/19/2020
Date Of Sampling: 3/18/2020
Purchase Order #: A20017

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
5		5-1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		5-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
6		6-1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		6-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
7		7-1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		7-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
8		8-1	Pink Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, 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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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

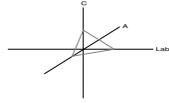
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		8-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
9		9-1	Pink Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		9-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
10		10-1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		10-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
11		11-1	White Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca
		11-2	White Finishing Plaster	Y	None Detected		100% qu, gy, ma, ca

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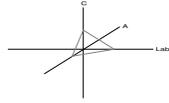
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		11-3		Tan Plaster	Y	None Detected		100% qu, ma, ca
12		12-1		White Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca
13		13-1		White Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca
		13-2		White Finishing Plaster	Y	None Detected		100% qu, gy, ma, ca
		13-3		Tan Plaster	Y	None Detected		100% qu, ma, ca
14		14-1		Tan Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca
15		15-1		Tan Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca

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ma - matrix	qu - quartz	sy - synthetic	

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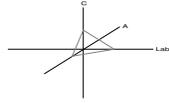
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Phone # 330-208-2717
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Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
16		16-1		Tan Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca
17		17-1		Tan Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca
18		18-1		Tan Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca
19		19-1		Tan Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		19-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
20		20-1		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
21		21-1		Tan Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca

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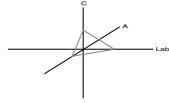

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Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		21-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
22		22-1		Tan Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		22-2		Tan Plaster	Y	None Detected		100% qu, ma, ca
23		23-1		Tan Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		23-2		Tan Plaster	Y	None Detected		100% qu, ma, ca
24		24-1		Tan Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		24-2		Tan Plaster	Y	None Detected		100% qu, ma, ca

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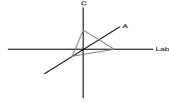
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 Canton, OH 44708
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Date: 3/25/2020
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
25		25-1	White Surfacing	Y	None Detected		100% qu, bi
		25-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
26		26-1	White Surfacing	Y	None Detected		100% qu, bi
		26-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
27		27-1	White Surfacing	Y	None Detected		100% qu, bi
		27-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
28		28-1	Tan Plaster	Y	None Detected		100% qu, ma, ca

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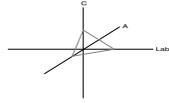
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Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
29		29-1		White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		29-2		Tan Plaster	Y	None Detected		100% qu, ma, ca
30		30-1		White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, ma, bi, ca
		30-2		Tan Plaster	Y	None Detected		100% qu, ma, ca
31		31-1		Black Shingle with Red Gravel	Y	None Detected	15% ce	85% qu, bi
		31-2		Brown Fibrous Insulation	Y	None Detected	100% ce	
32		32-1		Black Shingle with Red Gravel	Y	None Detected	15% ce	85% qu, bi

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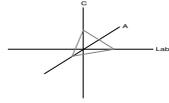
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CA Labs
Dedicated to
Quality

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

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CR 20031378

Asbestos Bulk Sample Chain of Custody

Project Name: **EnviroScience Asbestos Inspections** HZWP Project Number: **A20017**
 Project Address: **129 Rawcut Ct, NW, Canton, Ohio 44708** Sample Collection Date: **3/18/2020**

Sample #	HA	Material Description	Location	Condition	Frable (Y/N)	Comment
1		Smooth Plaster on Lath Walls	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Stop at First Positive
2		Smooth Plaster on Lath Walls	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Stop at First Positive
3		Smooth Plaster on Lath Walls	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Stop at First Positive
4		Smooth Plaster on Lath Walls	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Stop at First Positive
5		Smooth Plaster on Lath Walls	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Stop at First Positive
6		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Stop at First Positive
7		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Stop at First Positive
8		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Stop at First Positive
9		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Stop at First Positive
10		Smooth Plaster on Lath Ceilings	Rooms 1, 2, 3, 4, 5, 6, Stairs 1, 2, Kitchen	Good	Yes	Stop at First Positive
11		Heavy Stipple Textured Surfacing Material on Ceilings	Room 1	Good	Yes	Stop at First Positive
12		Heavy Stipple Textured Surfacing Material on Ceilings	Room 1	Good	Yes	Stop at First Positive
13		Heavy Stipple Textured Surfacing Material on Ceilings	Room 1	Good	Yes	Stop at First Positive
14		Stipple Textured Surfacing Material on Walls and Ceilings	Rooms 2, 3, 4, 5, 6, Stairs 2, Bathroom, Kitchen	Good	Yes	Stop at First Positive
15		Stipple Textured Surfacing Material on Walls and Ceilings	Rooms 2, 3, 4, 5, 6, Stairs 2, Bathroom, Kitchen	Good	Yes	Stop at First Positive
16		Stipple Textured Surfacing Material on Walls and Ceilings	Rooms 2, 3, 4, 5, 6, Stairs 2, Bathroom, Kitchen	Good	Yes	Stop at First Positive
17		Stipple Textured Surfacing Material on Walls and Ceilings	Rooms 2, 3, 4, 5, 6, Stairs 2, Bathroom, Kitchen	Good	Yes	Stop at First Positive
18		Stipple Textured Surfacing Material on Walls and Ceilings	Rooms 2, 3, 4, 5, 6, Stairs 2, Bathroom, Kitchen	Good	Yes	Stop at First Positive
19		Drywall System with Joint Compound	Room 4, Bathroom, Kitchen	Good	Yes	Stop at First Positive
20		Drywall System with Joint Compound	Room 4, Bathroom, Kitchen	Good	Yes	Stop at First Positive
21		Drywall System with Joint Compound	Room 4, Bathroom, Kitchen	Good	Yes	Stop at First Positive
22		Dripping Textured Surfacing Material	Room 3 and Hall	Good	Yes	Stop at First Positive
23		Dripping Textured Surfacing Material	Room 3 and Hall	Good	Yes	Stop at First Positive
24		Dripping Textured Surfacing Material	Room 3 and Hall	Good	Yes	Stop at First Positive
25		Thin Drywall	Room 6 Closet	Good	Yes	Stop at First Positive
26		Thin Drywall	Room 6 Closet	Good	Yes	Stop at First Positive
27		Thin Drywall	Room 6 Closet	Good	Yes	Stop at First Positive
28		Plaster on Brick	Room 3 Closet, Room 5	Good	Yes	Stop at First Positive
29		Plaster on Brick	Room 3 Closet, Room 5	Good	Yes	Stop at First Positive
30		Plaster on Brick	Room 3 Closet, Room 5	Good	Yes	Stop at First Positive
31		Asphalt Shingle Siding	Exterior Siding	Good	No	Stop at First Positive
32		Asphalt Shingle Siding	Exterior Siding	Good	No	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, chro@hzwenv.com
 Relinquished by: (sign & print name) *Chris B. ...* Date: **3-18-20**
 Received by: *Chris B. ...* Date: **3-18-20**