
SECTION 8
APPENDIX

CONTACT PERSONS TO ACCESS PROPERTIES

Lake County Land Reutilization Corp.

Linda S. Fredebaugh: 440-350-2133
8 North State Street, Ste. 215, Painesville, Ohio 44077

BUILDING DEPARTMENT CONTACTS FOR REMAINDER OF PROPERTIS

City of Mentor

Tom Vermilye
(440) 974-5785 building@cityofmentor.com

City of Painesville Township

Harley DeLeon
(440) 352-1442 hdeleon@painesviletownship.com

City of Willowick

Sean Brennan
(440) 516-3000 sbrennan@cityofwillowick.com

Pre-demolition Photos
120 Johnnycake Ridge Rd., Painesville Township



Pre-demolition Photos
120 Johnnycake Ridge Rd., Painesville Township



Pre-demolition Photos
120 Johnnycake Ridge Rd., Painesville



Pre-demolition Photos
120 Johnnycake Ridge Rd., Painesville



Pre-demolition Photos
120 Johnnycake Ridge Rd., Painesville



ASBESTOS SURVEY

120 Johnnycake Ridge Road
Painesville, Lake County, Ohio

March 20, 2024

Prepared for:
CT Consultants, Inc.
8150 Sterling Court
Mentor, Lake County, Ohio 44060

Prepared by:



6105 Heisley Road ♦ Mentor, Ohio 44060
440-357-1260 ♦ Fax 440-357-1510



HZW
Environmental
Consultants

March 20, 2024

Ms. Phyllis Dunlap
CT Consultants, Inc.
8150 Sterling Court
Mentor, Ohio 44060

Subject: Report of Findings from an Asbestos Survey Conducted at One (1) Residential Property Located at 120 Johnnycake Ridge Road, Painesville, Lake County, Ohio (HZW Project No. H21094-08)

Dear Ms. Dunlap:

HZW Environmental Consultants, LLC (HZW) is pleased to submit this letter report that presents the findings from an asbestos survey conducted at the property located at 120 Johnnycake Ridge Road, Painesville, Ohio. There are three (3) structures located at the property, a house, barn and shed, herein referred to as the “subject structures”. As indicated by CT Consultants, Inc. (the Client) the subject structures are scheduled to be demolished. The purpose of the asbestos survey was to identify asbestos-containing materials (ACMs) located at the subject structures prior to demolition activities being performed. A Goggle™ aerial showing the subject structures is provided below.



Photograph 01
Aerial of the Structures Located at
120 Johnnycake Ridge Road, Painesville, Lake County, Ohio

METHODS OF INVESTIGATION

General

During February 2024, a representative of HZW, certified as an Asbestos Hazard Evaluation Specialist (AHES), performed an asbestos survey of the subject structures. This certification is required to be maintained by the inspector in accordance with the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) and the Ohio Environmental Protection Agency (Ohio EPA) asbestos regulations.

The asbestos survey was conducted in accordance with the Environmental Protection Agency’s (EPA) National Emissions Standard for Hazardous Air Pollutants (NESHAP) survey protocol. NESHAP regulations require no specific survey protocol be followed; however, the Asbestos Hazard Emergency Response Act (AHERA) protocol is recommended. Therefore, the asbestos survey at each Structure was conducted in accordance with AHERA protocol. AHERA protocol requires that each building and/or building construction be surveyed separately for building materials suspect for containing asbestos. In addition, AHERA protocol requires that all functional spaces (specific area or building construction within a building) also be identified. Once the functional spaces are identified, then all homogeneous areas of building materials located in a specific functional space and suspect for containing asbestos are subsequently 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.

Bulk Sampling Protocol

In accordance with AHERA, HZW classified each homogeneous area/building material suspect for containing asbestos into one (1) of three (3) categories, based on the material’s ability to be crumbled, pulverized, or reduced to powder by hand pressure (herein referred as “friable”), prior to performing the bulk sampling activities. These three (3) categories are as follows:

Surfacing Materials	Thermal System Insulation (TSI)	Miscellaneous Friable and Nonfriable Materials
Examples include fireproofing and acoustical plaster.	Examples include, but are not limited to pipe lagging, pipe wrap, block insulation, batt insulation and mudded fitting insulation.	Examples of miscellaneous friable materials include, but are not limited to ceiling tile, drywall and joint compound. Examples of nonfriable materials include, but are not limited to, floor tile and mastic, roofing materials and transite.

Once categorized, HZW subsequently determined the quantity of each homogeneous area/building material within each specific functional space. HZW based the bulk sampling protocol on the AHERA category assigned to a specific homogeneous area/building material and the quantity of that area/material identified. The bulk sampling protocol performed at the subject structures consisted of the following:

- For Surfacing Materials, if the quantity of the homogeneous area/material is less than 1,000 square feet (ft²), then HZW collects a minimum of three (3) samples from this area/material. If the size of the homogeneous area/material is between 1,000 and 5,000 ft², then HZW collects a minimum of five (5) samples from this area/material. If the size of the homogeneous area/material is greater than 5,000 ft², then HZW collects a minimum of seven (7) samples from this area/material.
- For TSI, HZW either assumes the suspect material contains asbestos or collects at least three (3) bulk samples from each specific homogeneous area/material identified.
- For Miscellaneous Friable Materials and Nonfriable Materials, The number of bulk samples HZW collects of these materials is at the discretion of the inspector and in a “manner sufficient” to prove the asbestos content of the material.

Condition Categorization

In determining the condition of a material, HZW used the following guidelines:

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

Analytical Laboratory

Any bulk samples collected were submitted to CA Labs, LLC of Baton Rouge, Louisiana, for analysis of asbestos content by polarized light microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116. Building materials identified by PLM as containing three (3) percent asbestos or less were subsequently analyzed by 400 Point Count Methodology.

ASBESTOS REGULATIONS

Federal Regulations

The Occupational Safety and Health Administration’s (OSHA’s) Asbestos Standard for the Construction Industry (29 CFR 1926.1101) regulates all renovation and demolition work involving buildings materials which contain any amount of asbestos. Building owners and/or contractors who perform renovation and/or demolition activities which disturb buildings materials identified as containing asbestos are required to conduct these activities in accordance with OSHA’s Asbestos Standard. An asbestos-containing material (ACM), as defined by OSHA and the EPA, is any material containing more than one percent (1%) asbestos as determined by Polarized Light Microscopy (PLM).

The Asbestos NESHAP (40 C.F.R. Part 61, Subpart M) regulates which ACMs must be removed prior to renovation and demolition activities being performed. If the quantity of regulated ACMs (RACMs) to be disturbed as part of a renovation or demolition activity meets or exceeds 160 square feet on facility components, 260 linear feet on pipes or 35 cubic feet off facility components, then the activity would be regulated under the Asbestos NESHAP. RACMs are defined as 1) friable ACMs, 2) Category I Nonfriable ACMs that has become friable, 3) Category I Nonfriable ACMs that will be or have been subjected to sanding, grinding, cutting or abrading, or 4) Category II Nonfriable ACMs that have a high probability of becoming or have become crumbled, pulverized, or reduced to powder by the forces expected to act on the materials in the course of the demolition or renovation activities. A friable ACM is a material that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Examples of friable ACMs consist of asbestos-containing pipe insulation, fireproofing, and ceiling tile. Examples of Category I Nonfriable ACMs consist of asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products. Examples of Category II Nonfriable ACMs consist of any material, excluding Category I Nonfriable ACMs.

State Regulations

The Ohio EPA Asbestos regulations are under Chapter 3745-20 and 3745-22 of the Ohio Administrative Code (OAC) also referred to as the “Emission Control Rules”. Chapter 3745-20 is nearly identical to the Asbestos NESHAP, 40 CFR, Part 61, Subpart M, cited above. Chapter 3745-22 is the former Ohio Department of Health asbestos “Licensing Rules”, which on January 1, 2018, were adopted by the Ohio EPA. Chapter 3745-22 encompasses the rules governing asbestos hazard abatement contractors, specialists, project designers, workers, and training courses.

Under the Asbestos NESHAP and Ohio EPA Asbestos regulations the “Notification of Demolition and Renovation” form is required to be submitted ten (10) days prior to any of the following activities being performed:

- Demolition of a facility, regardless of whether asbestos is involved. This includes all structure that will be intentionally burned for fire training purposes.
- Renovation of a facility when the amount of RACM stripped, removed, dislodged, cut, drilled, or similarly disturbed exceeds 260 linear feet on pipes or 160 square feet on other facility components or 35 cubic feet off facility components.
- Abatement at a facility when the activity involves the removal, renovation, enclosure, repair or encapsulation of *friable* ACMs in an amount greater than 50 linear feet on pipes or 50 square feet on other facility components.

FINDINGS AND DISCUSSION

HZW’s Asbestos Bulk Sampling Information form and site sketches documenting the room designations and bulk sampling locations at the subject structures are included as **Attachment 1**. HZW’s Asbestos Bulk Sampling Information form documents the bulk sampling locations and each sample’s characterization (homogeneous area and functional space). In addition, for those materials identified as containing asbestos, the AHERA category, quantity, condition, and asbestos content is also documented on HZW’s Asbestos Bulk Sampling Information form.

Based on the laboratory analytical report for the bulk samples collected at the subject structures, three (3) building materials were identified as containing asbestos. These building materials consisted of the following:

Barn

- Window glazing (2 types - <1% asbestos)

House

- Floor sheeting (>1% asbestos)

Shed

No building materials were identified as containing asbestos.

The asbestos-containing floor sheeting (highlighted in “red” font on HZW’s Asbestos Bulk Sampling Information form) is classified as RACM by Lake County Air Pollution Control and is required to be abated prior to demolition activities being performed. The window glazings are not classified as ACMs and are therefore not regulated by the EPA. However, OSHA would regulate the handling of the window glazing regardless of its asbestos content. A copy of the laboratory analytical report for the bulk samples collected at the subject structures is included as **Attachment 2**.

The quantities of building materials identified as containing asbestos as presented on HZW’s Asbestos Bulk Sampling Information form in Attachment 1, are approximate. In addition, demolition of any of the subject structures’ ceilings and walls may reveal additional building materials suspected of containing asbestos.

RECOMMENDATIONS

Based on the findings of the asbestos survey the following recommendations are presented for consideration:

1. Notify any outside contractor(s) prior to them working at the barn and house of the presence of the building materials identified as containing asbestos. Contractors disturbing building materials identified as containing asbestos are required to conduct their activities in accordance with OSHA’s Asbestos Standard as well as the Asbestos NESHAP/Ohio EPA Asbestos regulations.
2. Contract with a licensed asbestos abatement contractor in the state of Ohio to abate the asbestos-containing floor sheeting highlighted in “red” font on HZW’s Asbestos Bulk Sampling Information form prior to demolition activities commencing.
3. Submit the Ohio EPA “Notification of Demolition and Renovation” form to the Ohio EPA 10 days prior to any of the following activities being performed.
 - Demolition of a facility, regardless of whether asbestos is involved. This includes all structure that will be intentionally burned for fire training purposes.
 - Abatement at a facility, when the activity involves the removal, renovation, enclosure, repair or encapsulation of friable ACM in an amount greater than 50 linear feet on pipes or 50 square feet on other facility components.

4. Ensure that the demolition activities are performed in accordance with Ohio EPA and OSHA regulations.
5. Ensure that the RACM is disposed of at a licensed asbestos landfill. The building materials identified as containing 1% or less asbestos can typically be disposed of at a C&D landfill. However, not all C&D landfills will accept waste containing asbestos. Therefore, the demolition contractor will need to confirm what types of asbestos-containing waste will be accepted at the landfill they anticipate using for the demolition project.

QUALIFICATIONS

The professional environmental consulting services were provided by HZW's licensed AHES, Mr. Matthew P. Fergus. Ms. Joan A. Sablar, HZW's Group Leader, was responsible for ensuring that the project was conducted in accordance with all applicable federal, state and local regulations as well as for generation of this report.

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

Sincerely,

HZW ENVIRONMENTAL CONSULTANTS, LLC

Matthew Fergus

Matthew P. Fergus
Asbestos Hazard Evaluation Specialist
(OEPA License No. ES 33794)

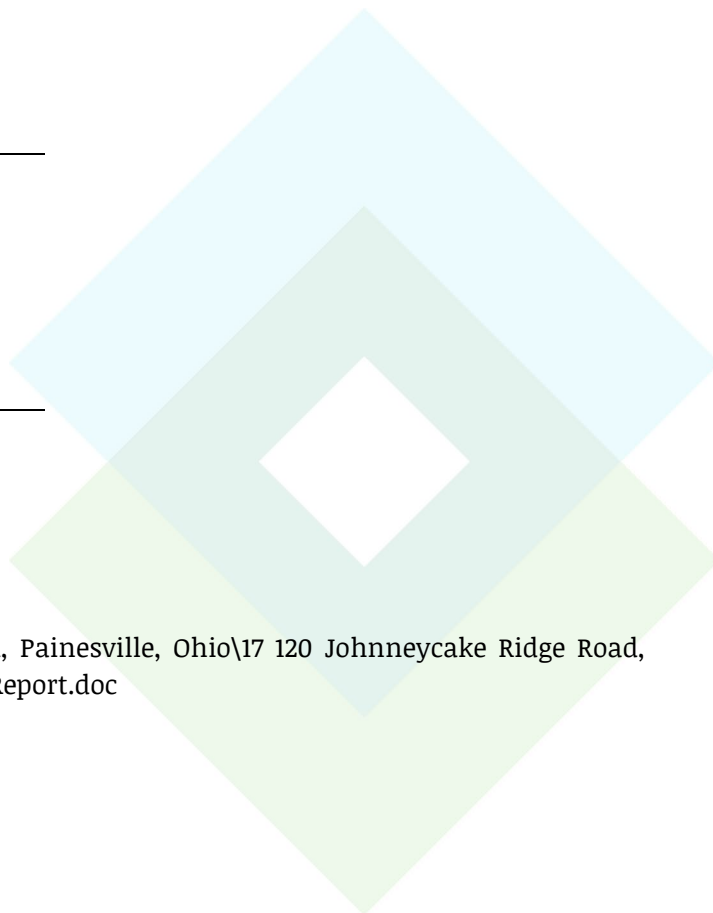
Joan Sablar

Joan A. Sablar
Asbestos Hazard Evaluation Specialist
(OEPA License No. ES 31652)

MPF:mpf\jas\H21094-08

Attachments

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ATTACHMENT 1

- ASBESTOS BULK SAMPLING INFORMATION FORM
- SITE DRAWINGS DOCUMENTING ROOM DESIGNATIONS AND BULK SAMPLING LOCATIONS

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 120 Johnnycake Ridge Road, Painesville, Lake County, Ohio

HA	MATERIAL	HOMOGENEOUS			AHERA CATEGORY			QUANTITY & CONDITION			RESULT ASBESTOS %	
		LOCATION	VALIDATION FOR SAMPLING	BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR		
A	Window Glazing	Barn Lower Level	Minimum 2 Samples	01						0.5 sq.ft.	0.25	
				02							0.25	
B	Window Glazing	Barn Upper Level	Minimum 2 Samples	03						0.25 sq.ft.	Trace	
				04							0.25	
C	Asphalt Shingles	Barn Roof	Minimum 2 Samples	05							ND	
				06								ND
D	Drywall	House Upper Level	Minimum 3 Samples	07							ND	
				08								ND
				09								
E	Textured Drywall - Ceiling	House Upper Level	Minimum 3 Samples	10							ND	
				11								ND
				12								

ND = No Asbestos Detected; NA = Not Analyzed;
 HZW Project No. H21094-08

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 120 Johnnycake Ridge Road, Painesville, Lake County, Ohio

HA	MATERIAL	HOMOGENEOUS		AHERA CATEGORY			QUANTITY & CONDITION			RESULT ASBESTOS %				
		LOCATION	VALIDATION FOR SAMPLING	BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR		POOR			
F	Ceiling Plaster	House Upper Level	<1,000 sq.ft.	13							ND			
				14								ND		
				15									ND	
G	Wall Plaster	House Upper Level	>1,000 sq.ft. <5,000 sq.ft.	16								ND		
				17									ND	
				18										ND
				19										ND
				20										ND
H	Drywall System - Ceiling and Wall	House Upper Level	Minimum 3 Samples	21								ND		
				22									ND	
				23										ND

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 120 Johnnycake Ridge Road, Painesville, Lake County, Ohio

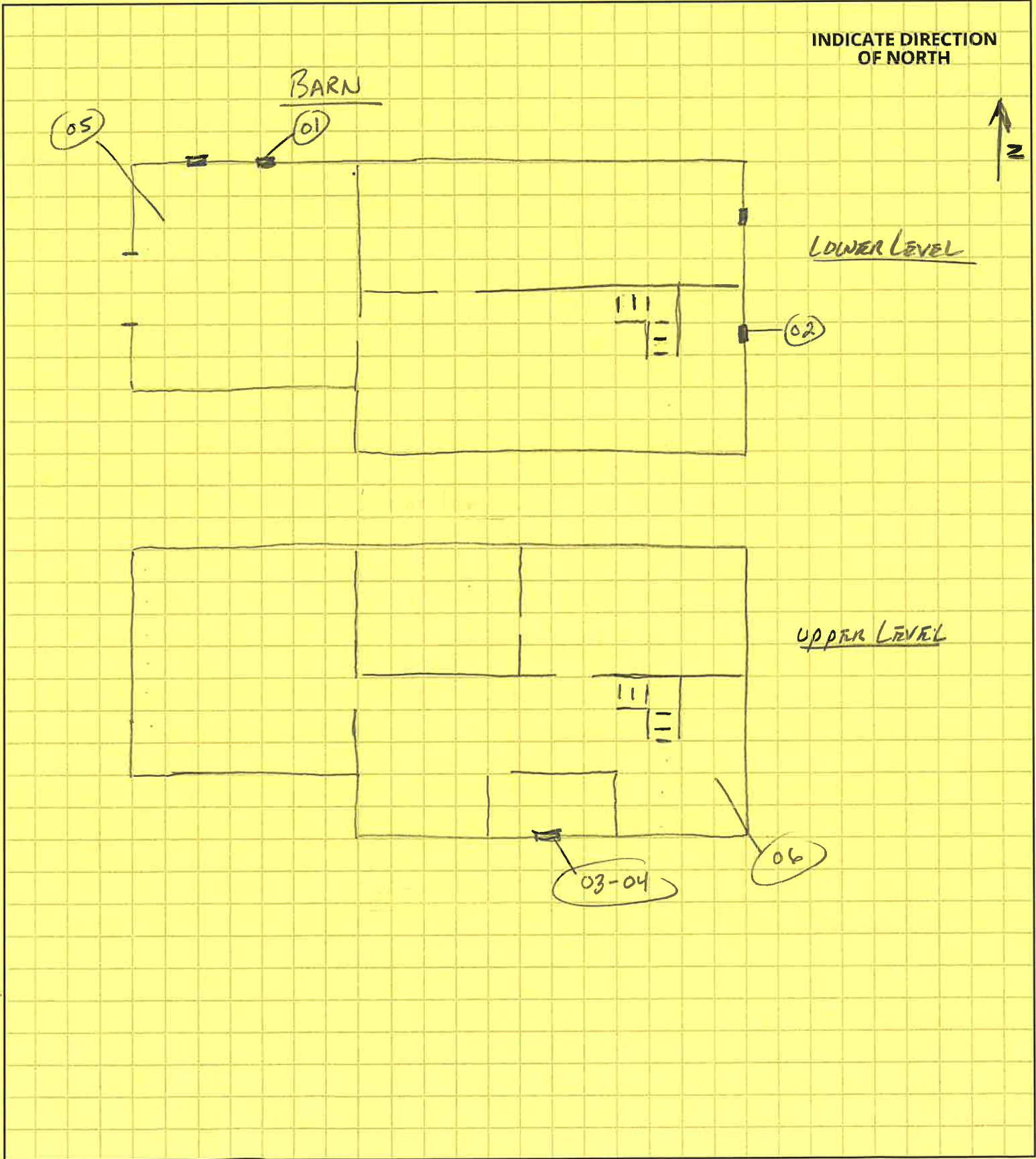
HA	MATERIAL	HOMOGENEOUS			AHERA CATEGORY			QUANTITY & CONDITION			RESULT ASBESTOS %	
		LOCATION	VALIDATION FOR SAMPLING	BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR		
I	Floor Sheeting	House Upper Level	Minimum 2 Samples	24			X	84 sq.ft.				15
				25								
J	Tar Felt Paper	House Roof	Minimum 2 Samples	26								ND
				27								
K	Asphalt Shingles	House Roof	Minimum 2 Samples	28								ND
				29								
L	Asphalt Shingles	House Roof	Minimum 2 Samples	30								ND
				31								
M	Asphalt Shingles	Shed Roof	Minimum 2 Samples	32								ND
				33								



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CONSULTANTS, LLC

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Fax 440-357-1510
A Woman-Owned Business Enterprise

PROJECT 120 Johnny cake Ridge Ross, Pointersville
PROJECT NO. H21094-08
PAGE NO. _____ OF _____
FIELD REPRESENTATIVE mjc DATE 2/15/24
SCALE _____

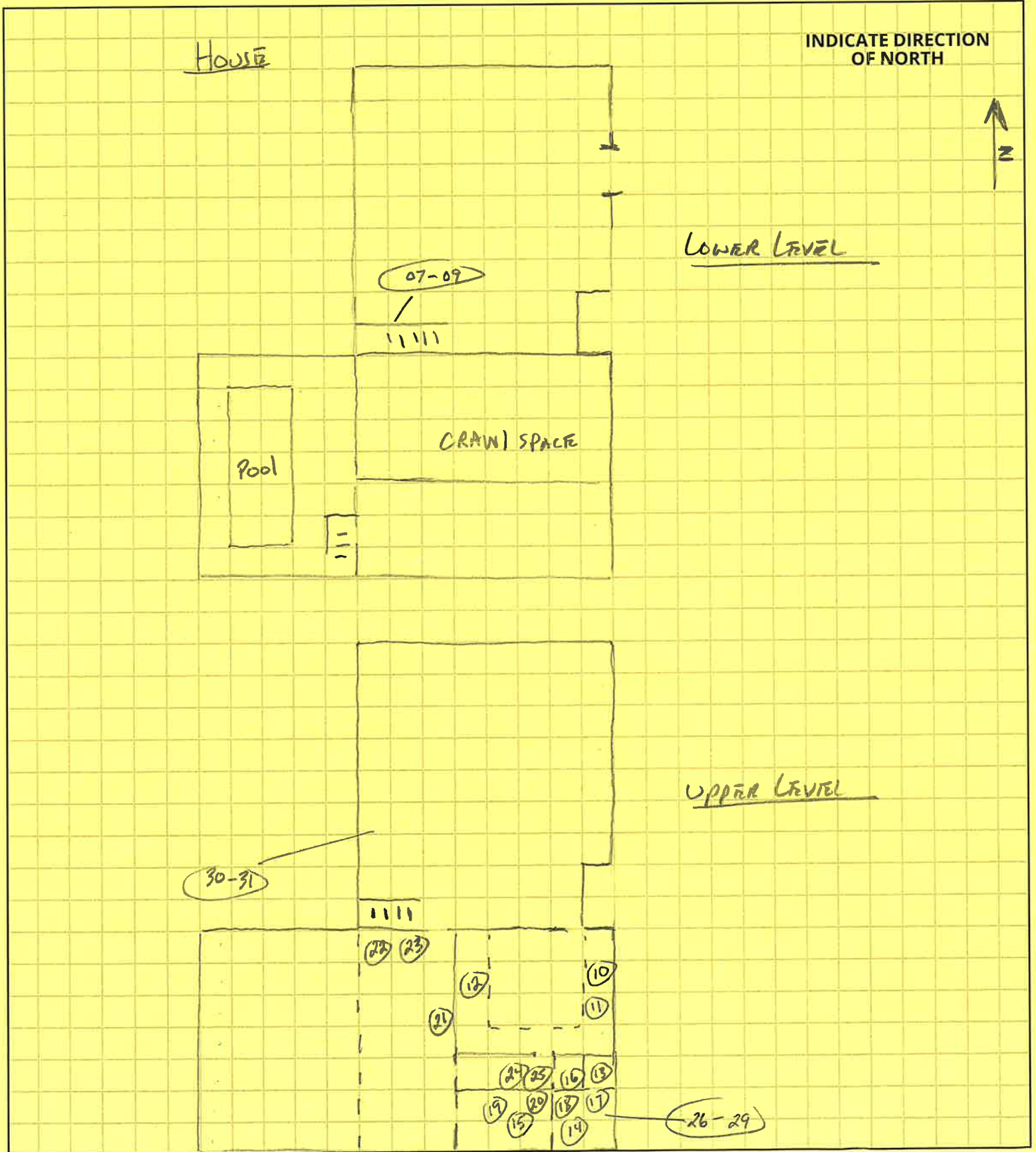




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PROJECT 120 Johnnycake Ridge Road, PAINESVILLE
PROJECT NO. 1421094-08
PAGE NO. _____ OF _____
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SCALE _____





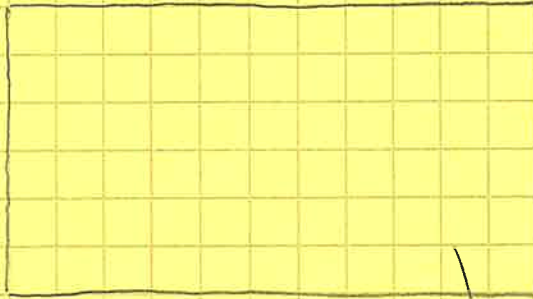
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PROJECT 120 JOHNNYCAKE RIDGE ROAD, PAINVILLE
PROJECT NO. 1121094-08
PAGE NO. _____ OF _____
FIELD REPRESENTATIVE MP DATE 2/15/24
SCALE _____

INDICATE DIRECTION
OF NORTH

SHED



32-33

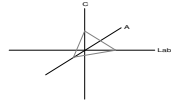


ATTACHMENT 2

➤ LABORATORY ANALYTICAL REPORT

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

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

HZW Environmental Consultants

6105 Heisley Rd.
Mentor, OH 44060

Attn: Joan Sablar

Customer Project: 120 Johnnycake Ridge Road; H21094-08

Reference #: CBR24021147

Date: 2/27/2024

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.

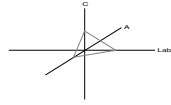
Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

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 Industriplex, Suite 32 Baton Rouge, LA 70809.



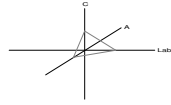
Overview of Project Sample Material Containing Asbestos

Customer Project:		120 Johnnycake Ridge Road; H21094-08		CA Labs Project #: CBR24021147	
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
01	01-1		Brown Surfaced White Sealant	2% Chrysotile	Brown Surfaced White Sealant Brown Surfaced Gray Sealant Tan Linoleum
02	02-1		Brown Surfaced White Sealant	2% Chrysotile	
03	03-1		Brown Surfaced Gray Sealant	2% Chrysotile	
04	04-1		Brown Surfaced Gray Sealant	2% Chrysotile	
24	24-2		Tan Linoleum	15% Chrysotile	

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

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

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Joan Sablar
HZW Environmental Consultants
 6105 Heisley Rd.
 Mentor, OH 44060

Customer Project: **CA Labs Project #:**
 120 Johnnycake Ridge Road; CBR24021147
 H21094-08

Phone # 440-357-1260
 Fax # 440-357-1510


Turnaround Time: 5 day **Date:** 2/27/2024
Samples Received: 2/22/2024
Date Of Sampling:
Purchase Order #: 2024-03


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
01		01-1	Brown Surfaced White Sealant	N	2% Chrysotile		98% qu, ma, bi, ca
02		02-1	Brown Surfaced White Sealant	N	2% Chrysotile		98% qu, ma, bi, ca
03		03-1	Brown Surfaced Gray Sealant	N	2% Chrysotile		98% qu, ma, bi, ca
04		04-1	Brown Surfaced Gray Sealant	N	2% Chrysotile		98% qu, ma, bi, ca
05		05-1	Black Shingle with Black Gravel	N	None Detected	15% ce	85% qu, bi
06		06-1	Black Shingle with Black Gravel	N	None Detected	15% ce	85% qu, bi
07		07-1	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy


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

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:

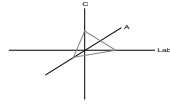

 Zo Andriampenomanana
 Analyst


 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: Joan Sablar
HzW Environmental Consultants
 6105 Heisley Rd.
 Mentor, OH 44060

Customer Project: 120 Johnnycake Ridge Road; H21094-08
CA Labs Project #: CBR24021147

Phone # 440-357-1260
 Fax # 440-357-1510

Turnaround Time: 5 day
Date: 2/27/2024
Samples Received: 2/22/2024
Date Of Sampling:
Purchase Order #: 2024-03

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
08		08-1	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
09		09-1	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
10		10-1	White Finishing Plaster	Y	None Detected		100% qu, ma, ca
		10-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
11		11-1	White Finishing Plaster	Y	None Detected		100% qu, ma, ca
		11-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
12		12-1	White Finishing Plaster	Y	None Detected		100% qu, 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:

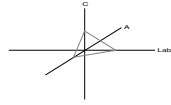
Zo Andriampenomanana
 Analyst

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: Joan Sablar
HzW Environmental Consultants
6105 Heisley Rd.
Mentor, OH 44060

Customer Project:
120 Johnnycake Ridge Road;
H21094-08

CA Labs Project #:
CBR24021147

Phone # 440-357-1260
Fax # 440-357-1510

Turnaround Time: 5 day


Date: 2/27/2024
Samples Received: 2/22/2024
Date Of Sampling:
Purchase Order #: 2024-03


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
			12-2 White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
13		13-1	Gray Plaster	Y	None Detected		100% qu, ma, ca
14		14-1	Gray Plaster	Y	None Detected		100% qu, ma, ca
15		15-1	Gray Plaster	Y	None Detected		100% qu, ma, ca
16		16-1	White and Gray Plaster	N	None Detected		100% qu, ma, ca
17		17-1	White and Gray Plaster	N	None Detected		100% qu, ma, ca
18		18-1	White and Gray Plaster	N	None Detected		100% qu, 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.

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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

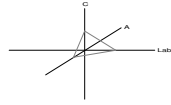

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Alicia Stretz


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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Joan Sablar
HzW Environmental Consultants
 6105 Heisley Rd.
 Mentor, OH 44060

Customer Project:
 120 Johnnycake Ridge Road;
 H21094-08

CA Labs Project #:
 CBR24021147

Turnaround Time: 5 day

Date: 2/27/2024
Samples Received: 2/22/2024
Date Of Sampling:
Purchase Order #: 2024-03

Phone # 440-357-1260
 Fax # 440-357-1510

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	White and Gray Plaster	N	None Detected		100% qu, ma, ca
20		20-1	White and Gray Plaster	N	None Detected		100% qu, ma, ca
21		21-1	White Compound	Y	None Detected		100% qu, mi, ca
			White Compound Beneath				
		21-2	Tape	Y	None Detected		100% qu, mi, ca
		21-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
22		22-1	White Compound	Y	None Detected		100% qu, mi, ca
			White Compound Beneath				
		22-2	Tape	Y	None Detected		100% qu, mi, ca

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

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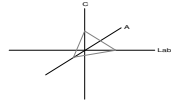
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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Joan Sablar
HzW Environmental Consultants
6105 Heisley Rd.
Mentor, OH 44060

Customer Project: 120 Johnnycake Ridge Road; H21094-08
CA Labs Project #: CBR24021147

Phone # 440-357-1260
Fax # 440-357-1510


Turnaround Time: 5 day
Date: 2/27/2024
Samples Received: 2/22/2024
Date Of Sampling:
Purchase Order #: 2024-03


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
			22-3 White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
23			23-1 White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
24	4		24-1 Yellow Mastic				
			24-2 Tan Linoleum	N	15% Chrysotile	10% ce	75% qu, ma, ot
25	4		25-1 Yellow Mastic				
			25-2 Tan Linoleum	N	Positive Stop		
26			26-1 Black Felt	N	None Detected	60% ce	40% qu, bi

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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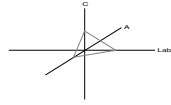
Approved Signatories:


Zo Andriampenomanana
Analyst


Senior Analyst
Alicia Stretz
Laboratory Director
Chris Williams

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Joan Sablar
HzW Environmental Consultants
 6105 Heisley Rd.
 Mentor, OH 44060

Customer Project: **CA Labs Project #:**
 120 Johnnycake Ridge Road; CBR24021147
 H21094-08

Phone # 440-357-1260
 Fax # 440-357-1510


Turnaround Time: 5 day **Date:** 2/27/2024
Samples Received: 2/22/2024
Date Of Sampling:
Purchase Order #: 2024-03


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
27		27-1		Black Felt	N	None Detected	60% ce	40% qu, bi
28		28-1		Black Shingle with Black Gravel	N	None Detected	15% ce	85% qu, bi
29		29-1		Black Shingle with Black Gravel	N	None Detected	15% ce	85% qu, bi
30		30-1		Black Shingle with Black Gravel	N	None Detected	15% ce	85% qu, bi
31		31-1		Black Shingle with Black Gravel	N	None Detected	15% ce	85% qu, bi
32		32-1		Black Shingle with Brown Gravel	N	None Detected	15% ce	85% qu, bi
33		33-1		Black Shingle with Brown Gravel	N	None Detected	15% ce	85% qu, bi


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	

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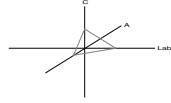

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Polarized Light Asbestiform Materials Point Count
Laboratory Analysis Report - Point Count

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: Joan Sablar
HzW Environmental Consultants
 6105 Heisley Rd.
 Mentor, OH 44060

Customer Project:
 120 Johnnycake Ridge Road;
 H21094-08

CA Labs Project #:
 CBR24021147

Phone # 440-357-1260
 Fax # 440-357-1510

Turnaround Time: 5 day

Date: 2/27/2024
Samples Received: 2/22/2024
Date Of Sampling:
Purchase Order #: 2024-03

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
01	01-1	<i>Brown Surfaced</i> White Sealant	N	0.25% Chrysotile
02	02-1	<i>Brown Surfaced</i> White Sealant	N	0.25% Chrysotile
03	03-1	<i>Brown Surfaced Gray</i> Sealant	N	Trace 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:

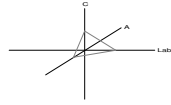
Zo Andriampenomanana
 Analyst

Senior Analyst
 Alicia Stretz

Laboratory Director
 Chris Williams

CA Labs
Dedicated to
Quality

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



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

Polarized Light Asbestiform Materials Point Count
Laboratory Analysis Report - Point Count

Customer Info: Attn: Joan Sablar
HzW Environmental Consultants
 6105 Heisley Rd.
 Mentor, OH 44060

Phone # 440-357-1260
 Fax # 440-357-1510

Customer Project:
 120 Johnnycake Ridge Road;
 H21094-08

Turnaround Time: 5 day

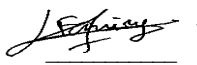
CA Labs Project #:
 CBR24021147

Date: 2/27/2024
Samples Received: 2/22/2024
Date Of Sampling:
Purchase Order #: 2024-03


Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
04	04-1	<i>Brown Surfaced Gray Sealant</i>	N	0.25% Chrysotile

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Approved Signatories:


 Zo Andriampenomanana
 Analyst

Senior Analyst
 Alicia Stretz


 Laboratory Director
 Chris Williams

Chain of Custody

Client Name: AZUL Environmental CA Labs job # CBR 24021147
 Client Address: 6105 HERSHEY ROAD Billing Address: _____
Mentor, OH 44060 (if different) _____
 phone number: 440 357-1260
 fax number: 440 357-1510 Send Reports to: Mfergus@hzwenv.com
 Project Number: H21094-08 Project Name: 120 Johnnycake Ridge Road
 Contact: JOAN SMIZAR Reports Results VIA: EMAIL FAX _____ VERBAL _____

Total # Samples Submitted: <u>33</u>	Total # Samples to be Analyzed: _____	Material Matrix: Air / <u>Bulk</u> / Water
---	--	---

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>		Allergen Particle:	2 hour
AHERA	4 hour	Improved	4 hour	tape/bulk/swab	4 hour
EPA Level II	8 hour	Interim	8 hour	Cyclex-d cassettes	8 hour
Drinking Water	16 hour		16 hour	Air-o-cell cassettes	16 hour
Wipe	24 hour	AHERA	24 hour	Anderson cultures	24 hour
Micro-vac	2 days		2 days	Bulk/swab cultures	2 days
NIOSH 7402	3 days	Point Count -	3 days	Bacteria cultures	3 days
Chatfield Bulk	5 days	(NESHAPS)	<u>5 days</u>	PCM: NIOSH 7400	5-10 days

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	TCLP
TA Time:	8 hour	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L):
01	Window glazing		
02	"		
03	Window glazing		
04	"		

Custody Information:
 Samples relinquished: Matt Jy 2/16/24 Signature / Date / Time
 Samples received: Carey Bracey Signature / Date / Time 1:20 2/22/24
 Samples relinquished: _____ Signature / Date / Time
 Samples received: _____ Signature / Date / Time
A Stop at first positive PC group / Point Count at 3% or less

Client Name: H2W CA Labs job # CBR 24021147
 Client Address: _____ Billing Address: _____
 (if different) _____
 phone number: _____
 fax number: _____ Send Reports to: _____
 Project Number: H21094-08 Project Name: 120 Johnnycake Ridge Court
 Reports Results
 Contact: _____ VIA: EMAIL _____ FAX _____ VERBAL _____

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
05	Asphalt shingles		
06	"		
07	Drywall		
08	"		
09	"		
10	Textured Drywall		
11	"		
12	"		
13	Ceiling Plaster		
14	"		
15	"		
16	Wall Plaster		
17	"		
18	"		
19	"		
20	"		
21	Drywall systems	} + COMPACT Analysis	
22	"		
23	"		
24	Floor Sheeting		
25	"		
26	Tar Felt paper		
27	"		

For internal use:
Any initial changes regarding project (indicate yes by checking line) _____

Custody Information:
 Samples relinquished: _____ Signature / Date / Time
 Samples received: Careli Krane 1:20 2/22/24
 Signature / Date / Time
 Samples relinquished: _____ Signature / Date / Time
 Samples received: _____ Signature / Date / Time



12232 Industriplex
Suite 32
Baton Rouge, LA 70809

Phone: 225-751-5632
Fax: 225-751-5634
After hours Mobile: 225-993-3471

Client Name: H2W CA Labs job # CBR24021147
 Client Address: _____ Billing Address: _____
 (if different) _____
 phone number: _____
 fax number: _____ Send Reports to: _____
 Project Number: H21094-08 Project Name: 120 Johnnycotte Ridge Road
 Reports Results
 Contact: _____ VIA: EMAIL FAX VERBAL

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
28	Asphalt Samples		
29	"		
30	Asphalt Samples		
31	"		
32	Asphalt Samples		
33	"		

For internal use:
Any initial changes regarding project (indicate yes by checking line) _____

Custody Information:
 Samples relinquished: _____ Signature / Date / Time
 Samples received: Caree Krayer 2/22/24 1:20
 Signature / Date / Time
 Samples relinquished: _____ Signature / Date / Time
 Samples received: _____ Signature / Date / Time

Pre-demolition Photos
1220 Madison Ave., Painesville Township



Pre-demolition Photos
1220 Madison Ave., Painesville Township



COMPREHENSIVE ASBESTOS SURVEY

1220 Madison Avenue
Painesville, Lake County, Ohio

October 27, 2023

Prepared for:
CT Consultants, Inc.
8150 Sterling Court
Mentor, Lake County, Ohio 44060

Prepared by:



6105 Heisley Road ♦ Mentor, Ohio 44060
440-357-1260 ♦ Fax 440-357-1510



HZW
Environmental
Consultants

October 27, 2023

Ms. Phyllis Dunlap
CT Consultants, Inc.
8150 Sterling Court
Mentor, Ohio 44060

Subject: *Report of Findings from a Comprehensive Asbestos Survey Conducted at One (1) Residential Structure Located at 1220 Madison Avenue, Painesville, Lake County, Ohio (HZW Project No. H21094-08)*

Dear Ms. Dunlap:

HZW Environmental Consultants, LLC (HZW) is pleased to submit this letter report that presents the findings from a comprehensive asbestos survey conducted at 1220 Madison Avenue, Painesville, Ohio, herein referred to as the “subject structure”. As indicated by CT Consultants, Inc. (the Client) the subject structure is scheduled to be demolished. The purpose of the asbestos survey was to identify asbestos-containing materials (ACMs) located at the subject structure prior to demolition activities being performed. A photograph depicting the exterior of the subject structure is provided below.



Photograph 01

Exterior View of the Structure Located at
1220 Madison Avenue, Painesville, Lake County, Ohio

METHODS OF INVESTIGATION

General

During October 2023, a representative of HZW, certified as an Asbestos Hazard Evaluation Specialist (AHES), performed a comprehensive asbestos survey at the subject structure. This certification is required to be maintained by the inspector in accordance with the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) and the Ohio Environmental Protection Agency (Ohio EPA) asbestos regulations.

The asbestos survey was conducted in accordance with the Environmental Protection Agency's (EPA) National Emissions Standard for Hazardous Air Pollutants (NESHAP) survey protocol. NESHAP regulations require no specific survey protocol be followed; however, the Asbestos Hazard Emergency Response Act (AHERA) protocol is recommended. Therefore, the asbestos survey at the subject structure was conducted in accordance with AHERA protocol. AHERA protocol requires that each building and/or building construction be surveyed separately for building materials suspect for containing asbestos. In addition, AHERA protocol requires that all functional spaces (specific area or building construction within a building) also be identified. Once the functional spaces are identified, then all homogeneous areas of building materials located in a specific functional space and suspect for containing asbestos are subsequently 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.

Bulk Sampling Protocol

In accordance with AHERA, HZW classified each homogeneous area/building material suspect for containing asbestos into one (1) of three (3) categories, based on the material's ability to be crumbled, pulverized, or reduced to powder by hand pressure (herein referred as "friable"), prior to performing the bulk sampling activities. These three (3) categories are as follows:

Surfacing Materials	Thermal System Insulation (TSI)	Miscellaneous Friable and Nonfriable Materials
Examples include fireproofing and acoustical plaster.	Examples include, but are not limited to pipe lagging, pipe wrap, block insulation, batt insulation and mudded fitting insulation.	Examples of miscellaneous friable materials include, but are not limited to ceiling tile, drywall and joint compound. Examples of nonfriable materials include, but are not limited to, floor tile and mastic, roofing materials and transite.

Once categorized, HZW subsequently determined the quantity of each homogeneous area/building material within each specific functional space. HZW based the bulk sampling protocol on the AHERA category assigned to a specific homogeneous area/building material and the quantity of that area/material identified. The bulk sampling protocol performed at the subject structure consisted of the following:

- For Surfacing Materials, if the quantity of the homogeneous area/material is less than 1,000 square feet (ft²), HZW collects a minimum of three (3) samples from this area/material. If the size of the homogeneous area/material is between 1,000 and 5,000 ft², then HZW collects a minimum of five (5) samples from this area/material. If the size of the homogeneous area/material is greater than 5,000 ft², then HZW collects a minimum of seven (7) samples from this area/material.
- For TSI, HZW either assumes the suspect material contains asbestos or collects at least three (3) bulk samples from each specific homogeneous area/material identified. Duct insulation was not sampled and was therefore assumed to contain asbestos.
- For Miscellaneous Friable Materials and Nonfriable Materials, The number of bulk samples HZW collects of these materials is at the discretion of the inspector and in a “manner sufficient” to prove the asbestos content of the material. Flooring materials and roofing materials identified in good to fair condition were not sampled and were therefore assumed to contain asbestos.

Condition Categorization

In determining the condition of a material, HZW used the following guidelines:

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

Analytical Laboratory

Any bulk samples collected were submitted to CA Labs, LLC of Baton Rouge, Louisiana, for analysis of asbestos content by polarized light microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116. Building materials identified by PLM as containing two (2) percent asbestos or less were subsequently analyzed by 400 Point Count Methodology.

ASBESTOS REGULATIONS

Federal Regulations

The Occupational Safety and Health Administration’s (OSHA’s) Asbestos Standard for the Construction Industry (29 CFR 1926.1101) regulates all renovation and demolition work involving buildings materials which contain any amount of asbestos. Building owners and/or contractors who perform renovation and/or demolition activities which disturb buildings materials identified as containing asbestos are required to conduct these activities in accordance with OSHA’s Asbestos Standard. An asbestos-containing material (ACM), as defined by OSHA and the EPA, is any material containing more than one percent (1%) asbestos as determined by Polarized Light Microscopy (PLM).

The Asbestos NESHAP (40 C.F.R. Part 61, Subpart M) regulates which ACMs must be removed prior to renovation and demolition activities being performed. If the quantity of regulated ACMs (RACMs) to be disturbed as part of a renovation or demolition activity meets or exceeds 160 square feet on facility components, 260 linear feet on pipes or 35 cubic feet off facility components, then the activity would be regulated under the Asbestos NESHAP. RACMs are defined as 1) friable ACMs, 2) Category I Nonfriable ACMs that has become friable, 3) Category I Nonfriable ACMs that will be or have been subjected to sanding, grinding, cutting or abrading, or 4) Category II Nonfriable ACMs that have a high probability of becoming or have become crumbled, pulverized, or reduced to powder by the forces expected to act on the materials in the course of the demolition or renovation activities. A friable ACM is a material that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Examples of friable ACMs consist of asbestos-containing pipe insulation, fireproofing, and ceiling tile. Examples of Category I Nonfriable ACMs consist of asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products. Examples of Category II Nonfriable ACMs consist of any material, excluding Category I Nonfriable ACMs.

State Regulations

The Ohio EPA Asbestos regulations are under Chapter 3745-20 and 3745-22 of the Ohio Administrative Code (OAC) also referred to as the “Emission Control Rules”. Chapter 3745-20 is nearly identical to the Asbestos NESHAP, 40 CFR, Part 61, Subpart M, cited above. Chapter 3745-22 is the former Ohio Department of Health asbestos “Licensing Rules”, which on January 1, 2018, were adopted by the Ohio EPA. Chapter 3745-22 encompasses the rules governing asbestos hazard abatement contractors, specialists, project designers, workers, and training courses.

Under the Asbestos NESHAP and Ohio EPA Asbestos regulations the “Notification of Demolition and Renovation” form is required to be submitted ten (10) days prior to any of the following activities being performed:

- Demolition of a facility, regardless of whether asbestos is involved. This includes all structure that will be intentionally burned for fire training purposes.
- Renovation of a facility when the amount of RACM stripped, removed, dislodged, cut, drilled, or similarly disturbed exceeds 260 linear feet on pipes or 160 square feet on other facility components or 35 cubic feet off facility components.
- Abatement at a facility when the activity involves the removal, renovation, enclosure, repair or encapsulation of *friable* ACMs in an amount greater than 50 linear feet on pipes or 50 square feet on other facility components.

FINDINGS AND DISCUSSION

HZW’s Asbestos Bulk Sampling Information form and a site sketch documenting the room designations and bulk sampling locations at the subject structure are included as **Attachment 1**. HZW’s Asbestos Bulk Sampling Information form documents the bulk sampling locations, each sample’s characterization (homogeneous area and functional space), sample validation, sample number, AHERA category, quantity/condition (if identified as containing asbestos) and asbestos content for each sample. The building materials highlighted in “red” font on HZW’s Asbestos Bulk Sampling Information form are required to be abated prior to demolition activities being performed. The wall plaster and window glazing identified as containing from a trace to less than one percent (<1%) are not considered ACM’s and are therefore not regulated by the EPA. However,

OSHA would regulate the wall plaster and window glazing regardless of its asbestos content. Any assumed Category I Nonfriable ACMs identified in good to fair condition on HZW's Asbestos Bulk Sampling Information form can remain within the subject structure during the demolition activities as long as the demolition activities do not cause these materials to become friable. A copy of the laboratory analytical report for the bulk samples collected at the subject structure is included as **Attachment 2**.

Special Conditions:

During the asbestos survey only the first floor and basement were accessible due to a portion of the roof has collapsed into the second-floor level of the subject structure. Access to the second-floor level was not able to be performed due to the unsafe conditions of the structure. Demolition activities performed at the structure may reveal additional building materials suspected of containing asbestos.

The quantities of building materials identified as containing asbestos or assumed to contain asbestos, as presented on HZW's Asbestos Bulk Sampling Information form in Attachment 1, are approximate and represent the majority of accessible building materials that could be quantified during the survey. In addition, demolition of any of the subject structure's ceilings and walls may reveal additional building materials suspected of containing asbestos.

RECOMMENDATIONS

Based on the findings of the comprehensive asbestos survey conducted at the subject structure, the following recommendations are presented for consideration:

1. Notify any outside contractor(s) prior to them working at the subject structure of the presence of the building materials assumed to contain asbestos. Contractors disturbing building materials assumed to contain asbestos are required to conduct their activities in accordance with OSHA's Asbestos Standard as well as the Asbestos NESHAP/Ohio EPA Asbestos regulations.
2. Submit the Ohio EPA "Notification of Demolition and Renovation/Abatement" form to the Ohio EPA 10 days prior to any of the following activities being performed.
 - Demolition of a facility, regardless of whether asbestos is involved. This includes all structure that will be intentionally burned for fire training purposes.
 - Renovation of a facility, when the amount of RACM stripped, removed, dislodged, cut, drilled, or similarly disturbed exceeds 260 linear feet on pipes or 160 square feet on other facility components or 35 cubic feet off facility components.
 - Abatement at a facility, when the activity involves the removal, renovation, enclosure, repair or encapsulation of friable ACM in an amount greater than 50 linear feet on pipes or 50 square feet on other facility components.
3. Ensure that the demolition activities are performed in accordance with Ohio EPA and OSHA regulations.

QUALIFICATIONS

The professional environmental consulting services were provided by HZW's licensed AHES, Mr. Matthew P. Fergus. Ms. Joan A. Sablar, HZW's Group Leader, was responsible for ensuring that the project was conducted in accordance with all applicable federal, state and local regulations as well as for generation of this report.

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

Sincerely,

HZW ENVIRONMENTAL CONSULTANTS, LLC

Matthew P. Fergus

Matthew P. Fergus

Asbestos Hazard Evaluation Specialist
(OEPA License No. ES 33228)

Joan A. Sablar

Joan A. Sablar
Group Leader

MPF;mpf\H21094-08

Attachments

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ATTACHMENT 1

- ASBESTOS BULK SAMPLING INFORMATION FORM
- SITE DRAWING DOCUMENTING ROOM DESIGNATIONS AND BULK SAMPLING LOCATIONS

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 1220 Madison Avenue, Painesville, Lake County, Ohio

HA	MATERIAL	HOMOGENEOUS		AHERA CATEGORY			QUANTITY & CONDITION			RESULT ASBESTOS %			
		LOCATION	VALIDATION FOR SAMPLING	BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR		POOR		
A	Ceiling Plaster on Wood Lath	Entire First & Second Floor	>1,000 sq.ft. <5,000 sq.ft.	01							ND		
				02								ND	
				03									ND
				04									ND
				05									ND
B	Wall Plaster on Wood Lath	Entire First & Second Floor	>1,000 sq.ft. <5,000 sq.ft.	06						4,200 Sq.ft.	ND		
				07							Trace		
				08								ND	
				09								0.25	
				10								ND	

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 1220 Madison Avenue, Painesville, Lake County, Ohio

HA	MATERIAL	HOMOGENEOUS			AHERA CATEGORY			QUANTITY & CONDITION			RESULT ASBESTOS %
		LOCATION	VALIDATION FOR SAMPLING	BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	
C	Window Glazing	First Floor & Second Floor Windows	Minimum 2 Samples	11						12 Sq.ft.	0.50
				12							
D	Window Glazing	Basement Windows	Minimum 2 Samples	13							ND
				14							
E	Asphalt Shingles	House Roof	Minimum 2 Samples	15							ND
				16							
F	Floor Tile - 12-inch by 12-inch White, Mastic	Stairwell 1, Room 2, Kitchen	Category I Non-friable in Good Condition, Not Sampled							192 sq.ft.	Assumed

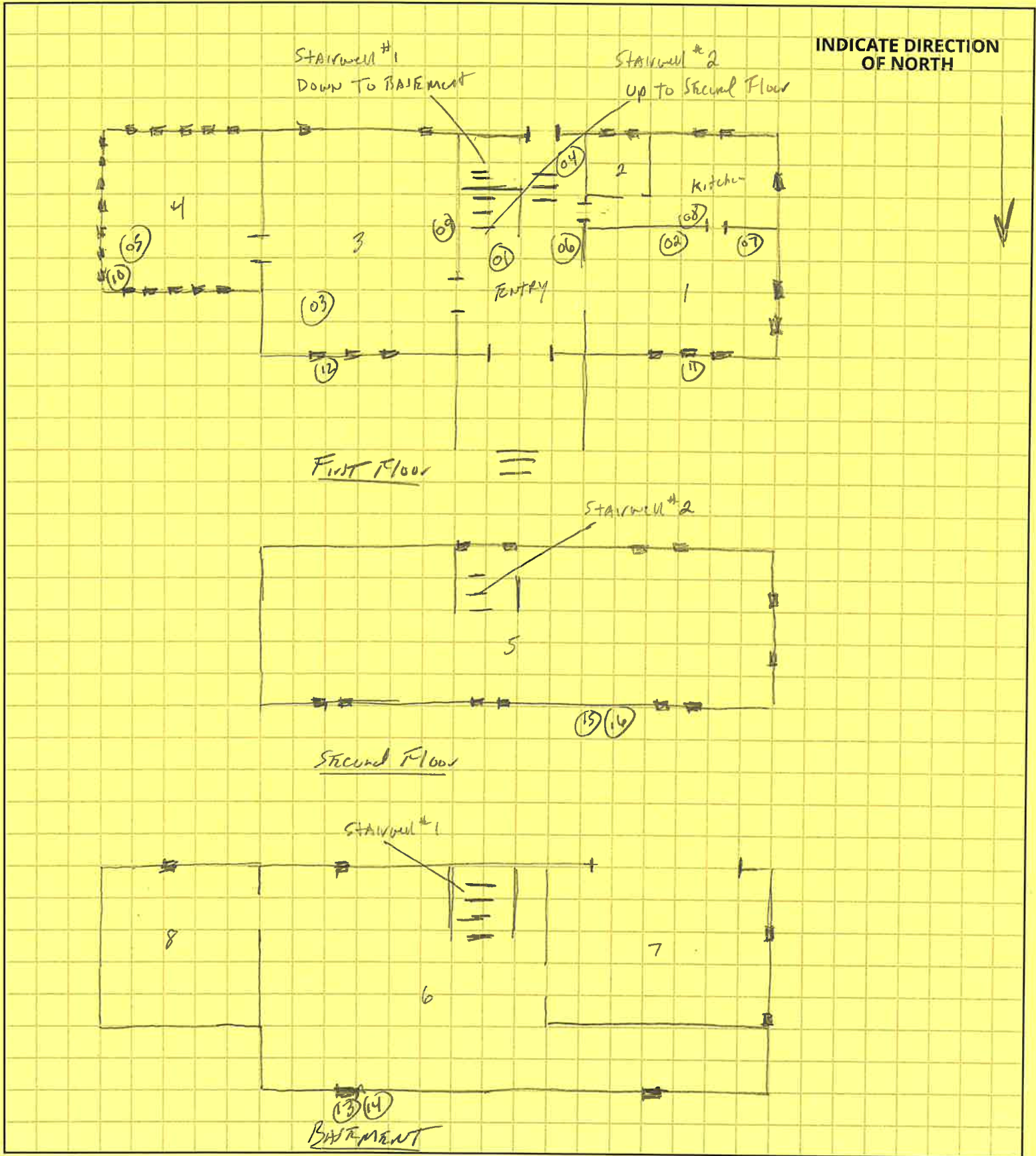
Note: Portion of roof has collapsed into the second-floor level, access to second floor was not obtained due to unsafe conditions.



HZW ENVIRONMENTAL
CONSULTANTS, LLC

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

PROJECT CT 1220 Madison Ave, Paintsville
PROJECT NO. H21094-08
PAGE NO. 1 OF 1
FIELD REPRESENTATIVE mpc DATE 10/3/23
SCALE _____



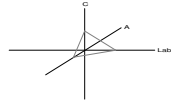


ATTACHMENT 2

➤ **LABORATORY ANALYTICAL REPORT**

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

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

HZW Environmental Consultants

6105 Heisley Rd.
Mentor, OH 44060

Attn: Joan Sablar

Customer Project: 1220 Madison Ave; H21094-08

Reference #: CBR23107789

Date: 10/12/2023

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.

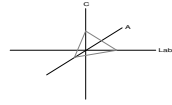
Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

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: 1220 Madison Ave; H21094-08 **CA Labs Project #:** CBR23107789

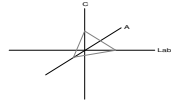
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
----------	---------	----------	-----------------------------------	--	--

06	06-2		Gray Plaster	2% Chrysotile	Gray Plaster Green Surfaced Tan Sealant
07	07-2		Gray Plaster	<1% Chrysotile	
08	08-2		Gray Plaster	2% Chrysotile	
09	09-2		Gray Plaster	2% Chrysotile	
10	10-2		Gray Plaster	2% Chrysotile	
11	11-1		Green Surfaced Tan Sealant	2% Chrysotile	
12	12-1		Green 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 - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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, AIHA LAP, LLC, 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.



Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Joan Sablar
HzW Environmental Consultants
6105 Heisley Rd.
Mentor, OH 44060

Customer Project:
1220 Madison Ave; H21094-08

CA Labs Project #:
CBR23107789

Phone # 440-357-1260
Fax # 440-357-1510

Turnaround Time: 5 day

Date: 10/12/2023
Samples Received: 10/6/2023
Date Of Sampling:
Purchase Order #: 2023-03

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
01		01-1	White Finishing Plaster	Y	None Detected		100% qu, ma, ca
		01-2	Gray Plaster	Y	None Detected		100% qu, ma, ca
02		02-1	White Finishing Plaster	Y	None Detected		100% qu, ma, ca
		02-2	Gray Plaster	Y	None Detected		100% qu, ma, ca
03		03-1	White Finishing Plaster	Y	None Detected		100% qu, ma, ca
		03-2	Gray Plaster	Y	None Detected		100% qu, ma, ca
04		04-1	White Finishing Plaster	Y	None Detected		100% qu, 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:

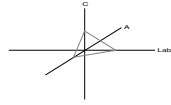
Zo Andriampenomanana
Analyst

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

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		04-2	Gray Plaster	Y	None Detected		100% qu, ma, ca
05		05-1	White Finishing Plaster	Y	None Detected		100% qu, ma, ca
		05-2	Gray Plaster	Y	None Detected		100% qu, ma, ca
06		06-1	Pink Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca
		06-2	Gray Plaster	Y	2% Chrysotile		98% qu, ma, ca
07		07-1	Pink Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca
		07-2	Gray Plaster	Y	<1% Chrysotile		100% qu, 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.

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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	

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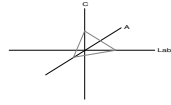
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
08		08-1	Pink Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca
		08-2	Gray Plaster	Y	2% Chrysotile		98% qu, ma, ca
09		09-1	Pink Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca
		09-2	Gray Plaster	Y	2% Chrysotile		98% qu, ma, ca
10		10-1	Pink Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, ca
		10-2	Gray Plaster	Y	2% Chrysotile		98% qu, ma, ca
11		11-1	Green Surfaced Tan Sealant	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)
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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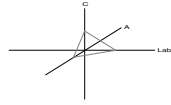
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Date Of Sampling:
Purchase Order #: 2023-03

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
12		12-1	Green Surfaced Tan Sealant	N	2% Chrysotile		98% qu, ma, bi, ca
13		13-1	White Sealant	Y	None Detected		100% qu, ma, ca
14		14-1	White Sealant	Y	None Detected		100% qu, ma, ca
15		15-1	Black Shingle with Brown Gravel	N	None Detected	15% fg	85% qu, bi
		15-2	Black Felt	Y	None Detected	60% ce	40% qu, bi
16		16-1	Black Shingle with Brown Gravel	N	None Detected	15% fg	85% qu, bi
		16-2	Black Felt	Y	None Detected	60% ce	40% qu, bi

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	

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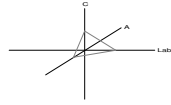
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 9. < 1% Result point counted positive
 10. TEM analysis suggested



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.

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 Mentor, OH 44060

Customer Project:
 1220 Madison Ave; H21094-08

CA Labs Project #:
 CBR23107789

Phone # 440-357-1260
 Fax # 440-357-1510

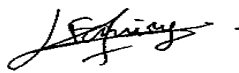
Turnaround Time: 5 day


Date: 10/12/2023
Samples Received: 10/6/2023
Date Of Sampling:
Purchase Order #: 2023-03


Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
07	07-2	Gray Plaster	Y	Trace Chrysotile

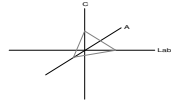
This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These 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:


 Zo Andriampenomanana
 Analyst


 Senior Analyst
 Alicia Stretz


 Laboratory Director
 Chris Williams



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: Joan Sablar
HzW Environmental Consultants
 6105 Heisley Rd.
 Mentor, OH 44060

Customer Project:
 1220 Madison Ave; H21094-08

CA Labs Project #:
 CBR2310778B

Phone # 440-357-1260
 Fax # 440-357-1510

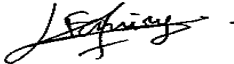
Turnaround Time: 24 hr


Date: 10/26/2023
Samples Received: 10/6/2023
Date Of Sampling:
Purchase Order #: 2023-03


Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
06	06-2	Gray Plaster	Y	0.25% Chrysotile
08	08-2	Gray Plaster	Y	0.25% Chrysotile
09	09-2	Gray Plaster	Y	0.50% Chrysotile

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Approved Signatories:

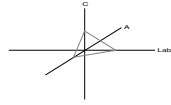

 Zo Andriampenomanana
 Analyst


 Senior Analyst
 Alicia Stretz


 Laboratory Director
 Chris Williams

CA Labs
Dedicated to
Quality

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



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

Polarized Light Asbestiform Materials Point Count
Laboratory Analysis Report - Point Count

Customer Info: Attn: Joan Sablar
HzW Environmental Consultants
 6105 Heisley Rd.
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 1220 Madison Ave; H21094-08

CA Labs Project #:
 CBR2310778B

Phone # 440-357-1260
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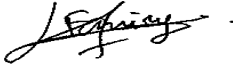
Turnaround Time: 24 hr

Date: 10/26/2023
Samples Received: 10/6/2023
Date Of Sampling:
Purchase Order #: 2023-03


Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
10	10-2	Gray Plaster	Y	0.25% Chrysotile
11	11-1	Green Surfaced Tan Sealant	N	0.50% Chrysotile
12	12-1	Green Surfaced Tan Sealant	N	0.50% Chrysotile

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Approved Signatories:


 Zo Andriampenomanana
 Analyst

Senior Analyst
 Alicia Stretz


 Laboratory Director
 Chris Williams

Chain of Custody

Client Name: HZal Fenwickmentals CA Labs job #: CBR 23107789

Client Address: 6105 Hensley Road Billing Address: _____
Mentor, OH 44060 (if different) _____

phone number: _____

fax number: _____ Send Reports to: mfergus@hzincav.com

Project Number: 1421094-08 Project Name: 1220 Madison Ave

Contact: _____ Reports Results VIA: EMAIL _____ FAX _____ VERBAL _____

Total # Samples Submitted: <u>16</u>	Total # Samples to be Analyzed: _____	Material Matrix: Air / <u>Bulk</u> / Water
---	--	---

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	<i>2 hour</i>	Allergen Particle:	<i>2 hour</i>
AHERA	4 hour	Improved	4 hour	tape/bulk/swab	4 hour
EPA Level II	8 hour	Interim	8 hour	Cyclex-d cassettes	8 hour
Drinking Water	16 hour		16 hour	Air-o-cell cassettes	16 hour
Wipe	24 hour	AHERA	24 hour	Anderson cultures	24 hour
Micro-vac	2 days		2 days	Bulk/swab cultures	2 days
NIOSH 7402	3 days	Point Count -	3 days	Bacteria cultures	3 days
Chatfield Bulk	5 days	(NESHAPS)	<u>5 days</u>	PCM: NIOSH 7400	5-10 days

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	TCLP
TA Time:	<u>8 hour</u>	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
<u>01</u>	<u>ceiling plaster</u>		
<u>02</u>			
<u>03</u>			
<u>04</u>			
<u>05</u>			

Custody Information:

Samples relinquished: Matt P [Signature] 10/3/23
Signature / Date / Time

Samples received: Carey Bracey 11:40
Signature / Date / Time

Samples relinquished: _____
Signature / Date / Time

Samples received: _____
Signature / Date / Time



12232 Industriplex
Suite 32
Baton Rouge, LA 70809

Phone: 225-751-5632
Fax: 225-751-5634
After hours Mobile: 225-993-3471

Client Name: H2O Environmental CA Labs job # CBR23107789
 Client Address: _____ Billing Address: _____
 (if different) _____
 phone number: _____
 fax number: _____ Send Reports to: _____
 Project Number: HQ1094-08 Project Name: 1220 MADISON AVE
 Reports Results
 Contact: _____ VIA: EMAIL FAX VERBAL

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
06	wall plaster		
07	}		
08			
09			
10			
11	windows glazing		
12	}		
13		windows glazing	
14	}		
15		Asphalt Shingles	
16			

For internal use:
Any initial changes regarding project (indicate yes by checking line) _____

Custody Information:
 Samples relinquished: _____ Signature / Date / Time
 Samples received: Carey Braver ^{11:40} 10/6/23
 Signature / Date / Time
 Samples relinquished: _____ Signature / Date / Time
 Samples received: _____ Signature / Date / Time

Pre-construction Photos
30417 Lake Shore Blvd., Willowick



Pre-construction Photos
30417 Lake Shore Blvd., Willowick



COMPREHENSIVE ASBESTOS SURVEY

30417 Lakeshore Boulevard
Willowick, Lake County, Ohio

July 20, 2023

Prepared for:
CT Consultants, Inc.
8150 Sterling Court
Mentor, Lake County, Ohio 44060

Prepared by:



6105 Heisley Road ♦ Mentor, Ohio 44060
440-357-1260 ♦ Fax 440-357-1510



HZW
Environmental
Consultants

July 20, 2023

Ms. Phyllis Dunlap
CT Consultants, Inc.
8150 Sterling Court
Mentor, Ohio 44060

Subject: *Report of Findings from a Comprehensive Asbestos Survey Conducted at One (1) Residential Structure Located at 30417 Lakeshore Boulevard, Willowick, Lake County, Ohio (HZW Project No. H21094-08)*

Dear Ms. Dunlap:

HZW Environmental Consultants, LLC (HZW) is pleased to submit this letter report that presents the findings from a comprehensive asbestos survey conducted at 30417 Lakeshore Boulevard, Willowick, Ohio, herein referred to as the “subject structure”. As indicated by CT Consultants, Inc. (the Client) the subject structure is scheduled to be demolished. The purpose of the asbestos survey was to identify asbestos-containing materials (ACMs) located at the subject structure prior to demolition activities being performed. A photograph depicting the exterior of the subject structure is provided below.



Photograph 01

Exterior View of the Structure Located at
30417 Lakeshore Boulevard, Willowick, Lake County, Ohio

METHODS OF INVESTIGATION

General

During June 2023, a representative of HZW, certified as an Asbestos Hazard Evaluation Specialist (AHES), performed a comprehensive asbestos survey at the subject structure. This certification is required to be maintained by the inspector in accordance with the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) and the Ohio Environmental Protection Agency (Ohio EPA) asbestos regulations.

The asbestos survey was conducted in accordance with the Environmental Protection Agency's (EPA) National Emissions Standard for Hazardous Air Pollutants (NESHAP) survey protocol. NESHAP regulations require no specific survey protocol be followed; however, the Asbestos Hazard Emergency Response Act (AHERA) protocol is recommended. Therefore, the asbestos survey at the subject structure was conducted in accordance with AHERA protocol. AHERA protocol requires that each building and/or building construction be surveyed separately for building materials suspect for containing asbestos. In addition, AHERA protocol requires that all functional spaces (specific area or building construction within a building) also be identified. Once the functional spaces are identified, then all homogeneous areas of building materials located in a specific functional space and suspect for containing asbestos are subsequently 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.

Bulk Sampling Protocol

In accordance with AHERA, HZW classified each homogeneous area/building material suspect for containing asbestos into one (1) of three (3) categories, based on the material's ability to be crumbled, pulverized, or reduced to powder by hand pressure (herein referred as "friable"), prior to performing the bulk sampling activities. These three (3) categories are as follows:

Surfacing Materials	Thermal System Insulation (TSI)	Miscellaneous Friable and Nonfriable Materials
Examples include fireproofing and acoustical plaster.	Examples include, but are not limited to pipe lagging, pipe wrap, block insulation, batt insulation and mudded fitting insulation.	Examples of miscellaneous friable materials include, but are not limited to ceiling tile, drywall and joint compound. Examples of nonfriable materials include, but are not limited to, floor tile and mastic, roofing materials and transite.

Once categorized, HZW subsequently determined the quantity of each homogeneous area/building material within each specific functional space. HZW based the bulk sampling protocol on the AHERA category assigned to a specific homogeneous area/building material and the quantity of that area/material identified. The bulk sampling protocol performed at the subject structure consisted of the following:

- For Surfacing Materials, if the quantity of the homogeneous area/material is less than 1,000 square feet (ft²), HZW collects a minimum of three (3) samples from this area/material. If the size of the homogeneous area/material is between 1,000 and 5,000 ft², then HZW collects a minimum of five (5) samples from this area/material. If the size of the homogeneous area/material is greater than 5,000 ft², then HZW collects a minimum of seven (7) samples from this area/material.
- For TSI, HZW either assumes the suspect material contains asbestos or collects at least three (3) bulk samples from each specific homogeneous area/material identified. Duct insulation was not sampled and was therefore assumed to contain asbestos.
- For Miscellaneous Friable Materials and Nonfriable Materials, The number of bulk samples HZW collects of these materials is at the discretion of the inspector and in a “manner sufficient” to prove the asbestos content of the material. Flooring materials and roofing materials identified in good to fair condition were not sampled and were therefore assumed to contain asbestos.

Condition Categorization

In determining the condition of a material, HZW used the following guidelines:

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

Analytical Laboratory

Any bulk samples collected were submitted to CA Labs, LLC of Baton Rouge, Louisiana, for analysis of asbestos content by polarized light microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116. Building materials identified by PLM as containing two (2) percent asbestos or less were subsequently analyzed by 400 Point Count Methodology.

ASBESTOS REGULATIONS

Federal Regulations

The Occupational Safety and Health Administration’s (OSHA’s) Asbestos Standard for the Construction Industry (29 CFR 1926.1101) regulates all renovation and demolition work involving buildings materials which contain any amount of asbestos. Building owners and/or contractors who perform renovation and/or demolition activities which disturb buildings materials identified as containing asbestos are required to conduct these activities in accordance with OSHA’s Asbestos Standard. An asbestos-containing material (ACM), as defined by OSHA and the EPA, is any material containing more than one percent (1%) asbestos as determined by Polarized Light Microscopy (PLM).

The Asbestos NESHAP (40 C.F.R. Part 61, Subpart M) regulates which ACMs must be removed prior to renovation and demolition activities being performed. If the quantity of regulated ACMs (RACMs) to be disturbed as part of a renovation or demolition activity meets or exceeds 160 square feet on facility components, 260 linear feet on pipes or 35 cubic feet off facility components, then the activity would be regulated under the Asbestos NESHAP. RACMs are defined as 1) friable ACMs, 2) Category I Nonfriable ACMs that has become friable, 3) Category I Nonfriable ACMs that will be or have been subjected to sanding, grinding, cutting or abrading, or 4) Category II Nonfriable ACMs that have a high probability of becoming or have become crumbled, pulverized, or reduced to powder by the forces expected to act on the materials in the course of the demolition or renovation activities. A friable ACM is a material that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Examples of friable ACMs consist of asbestos-containing pipe insulation, fireproofing, and ceiling tile. Examples of Category I Nonfriable ACMs consist of asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products. Examples of Category II Nonfriable ACMs consist of any material, excluding Category I Nonfriable ACMs.

State Regulations

The Ohio EPA Asbestos regulations are under Chapter 3745-20 and 3745-22 of the Ohio Administrative Code (OAC) also referred to as the “Emission Control Rules”. Chapter 3745-20 is nearly identical to the Asbestos NESHAP, 40 CFR, Part 61, Subpart M, cited above. Chapter 3745-22 is the former Ohio Department of Health asbestos “Licensing Rules”, which on January 1, 2018, were adopted by the Ohio EPA. Chapter 3745-22 encompasses the rules governing asbestos hazard abatement contractors, specialists, project designers, workers, and training courses.

Under the Asbestos NESHAP and Ohio EPA Asbestos regulations the “Notification of Demolition and Renovation” form is required to be submitted ten (10) days prior to any of the following activities being performed:

- Demolition of a facility, regardless of whether asbestos is involved. This includes all structure that will be intentionally burned for fire training purposes.
- Renovation of a facility when the amount of RACM stripped, removed, dislodged, cut, drilled, or similarly disturbed exceeds 260 linear feet on pipes or 160 square feet on other facility components or 35 cubic feet off facility components.
- Abatement at a facility when the activity involves the removal, renovation, enclosure, repair or encapsulation of *friable* ACMs in an amount greater than 50 linear feet on pipes or 50 square feet on other facility components.

FINDINGS AND DISCUSSION

HZW’s Asbestos Bulk Sampling Information form and a site sketch documenting the room designations and bulk sampling locations at the subject structure are included as **Attachment 1**. HZW’s Asbestos Bulk Sampling Information form documents the bulk sampling locations, each sample’s characterization (homogeneous area and functional space), sample validation, sample number, AHERA category, quantity/condition (if identified as containing asbestos) and asbestos content for each sample. The building materials highlighted in “red” font on HZW’s Asbestos Bulk Sampling Information form are required to be abated prior to demolition activities being performed. The vermiculite wall insulation identified as containing from one percent to less than one percent (<1%) are not considered ACM’s and are therefore not regulated by the EPA. However,

OSHA would regulate the vermiculite wall insulation regardless of its asbestos content. Any assumed Category I Nonfriable ACMs identified in good to fair condition on HZW's Asbestos Bulk Sampling Information form can remain within the subject structure during the demolition activities as long as the demolition activities do not cause these materials to become friable. A copy of the laboratory analytical report for the bulk samples collected at the subject structure is included as **Attachment 2**.

The quantities of building materials identified as containing asbestos or assumed to contain asbestos, as presented on HZW's Asbestos Bulk Sampling Information form in Attachment 1, are approximate and represent the majority of accessible building materials that could be quantified during the survey. In addition, demolition of any of the subject structure's ceilings and walls may reveal additional building materials suspected of containing asbestos.

RECOMMENDATIONS

Based on the findings of the comprehensive asbestos survey the following recommendations are presented for consideration:

1. Notify any outside contractor(s) prior to them working at the subject structure of the presence of the building materials identified or assumed to contain asbestos. Contractors disturbing building materials identified or assumed to contain asbestos are required to conduct their activities in accordance with OSHA's Asbestos Standard as well as the Asbestos NESHAP/Ohio EPA Asbestos regulations.
2. Contract with a licensed asbestos abatement contractor in the state of Ohio to abate the building materials highlighted in "red" font on HZW's Asbestos Bulk Sampling Information form prior to demolition activities commencing.
3. Submit the Ohio EPA "Notification of Demolition and Renovation" form to the Ohio EPA 10 days prior to any of the following activities being performed.
 - Demolition of a facility, regardless of whether asbestos is involved. This includes all structure that will be intentionally burned for fire training purposes.
 - Renovation of a facility, when the amount of RACM stripped, removed, dislodged, cut, drilled, or similarly disturbed exceeds 260 linear feet on pipes or 160 square feet on other facility components or 35 cubic feet off facility components.
 - Abatement at a facility, when the activity involves the removal, renovation, enclosure, repair or encapsulation of friable ACM in an amount greater than 50 linear feet on pipes or 50 square feet on other facility components.
4. Ensure that the demolition activities are performed in accordance with Ohio EPA and OSHA regulations.

QUALIFICATIONS

The professional environmental consulting services were provided by HZW's licensed AHES, Mr. Carmen Rocco. Ms. Joan A. Sablar, HZW's Group Leader, was responsible for ensuring that the project was conducted in accordance with all applicable federal, state and local regulations as well as for generation of this report.

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

Sincerely,

HZW ENVIRONMENTAL CONSULTANTS, LLC

Carmen Rocco

Carmen Rocco
Asbestos Hazard Evaluation Specialist
(OEPA License No. ES 33794)

Joan A. Sablar

Joan A. Sablar
Group Leader

CR;cr\mpf\H21094-08

Attachments

I:\2021\H21094-08\13 30417 Lakeshore Boulevard, Willowick, Ohio\13 30417 Lakeshore Boulevard, Willowick, Lake County, Ohio Report.doc





ATTACHMENT 1

- ASBESTOS BULK SAMPLING INFORMATION FORM
- SITE DRAWING DOCUMENTING ROOM DESIGNATIONS AND BULK SAMPLING LOCATIONS

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 30417 Lakeshore Boulevard, Willowick, Lake County, Ohio

HA	HOMOGENEOUS		VALIDATION FOR SAMPLING		AHERA CATEGORY			QUANTITY & CONDITION			RESULT ASBESTOS %			
	MATERIAL	LOCATION			BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR		POOR		
A	Ceiling Plaster with Skim Coat - Smooth, Over Drywall Board	Throughout First and Second Floors (Except Room 3, Hallway 1 Closets and Stairwell 2)	>1,000 sq.ft. <5,000 sq.ft.		01							ND		
					02								ND	
					03									ND
					04									ND
					05									ND
B	Wall Plaster with Skim Coat - Smooth, Over Wire Mesh	Throughout First and Second Floor (Except Hallway 1 Closets and Stairwell 2)	>1,000 sq.ft. <5,000 sq.ft.		06							ND		
					07								ND	
					08									ND
					09									ND
					10									ND

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 30417 Lakeshore Boulevard, Willowick, Lake County, Ohio

HA	MATERIAL	HOMOGENEOUS			AHERA CATEGORY			QUANTITY & CONDITION			RESULT ASBESTOS %
		LOCATION	VALIDATION FOR SAMPLING	BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	
C	Vermiculite Insulation - Wall	Throughout First and Second Floor Exterior Walls	Minimum 3 Samples	11					2,100 sq.ft.		0.75
				12							1.00
				13							
D	Sink Insulation - White Single Basin	Room 3	Minimum 2 Samples	14							ND
				15							ND
E	Vinyl Sheet Flooring - Gray Slate with 9- inch Square Pattern, Mastic (Over Wood Flooring)	Room 3	Minimum 2 Samples	16							ND
				17							ND
F	Ceiling Tile - 1-foot by 1-foot, with Fissure Pattern	Room 11	Minimum 2 Samples	18							ND
				19							ND
I	Window Glazing - Wood Frame	House Windows	Minimum 2 Samples	20							ND
				21							ND
J	Storm Windows - Wood Frame	House Windows	Minimum 2 Samples	22							ND
				23							ND
K	Drywall System - Wall	Throughout Garage	Number of Samples Determined by Inspector	24							ND
				25							ND

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 30417 Lakeshore Boulevard, Willowick, Lake County, Ohio

HA	MATERIAL	HOMOGENEOUS			AHERA CATEGORY			QUANTITY & CONDITION			RESULT
		LOCATION	VALIDATION FOR SAMPLING	BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	
L	Sink Insulation - White, Double Basin	Garage	Minimum 2 Samples	26							ND
				27							ND
N	Drywall System - Ceiling	Room 3	Number of Samples Determined by Inspector	28							ND
				29							ND
G	Rolled Asphalt Roofing System - Black	Sun Porch	Category I Non-friable in Good Condition, Not Sampled				X		190 sq.ft.		Assumed
H	Asphalt Shingle Roofing System - Black	House Roof	Category I Non-friable in Good Condition, Not Sampled				X		800 sq.ft.		Assumed
M	Asphalt Shingle Roofing System - Black	Garage Roof	Category I Non-friable in Good Condition, Not Sampled				X		627 sq.ft.		Assumed

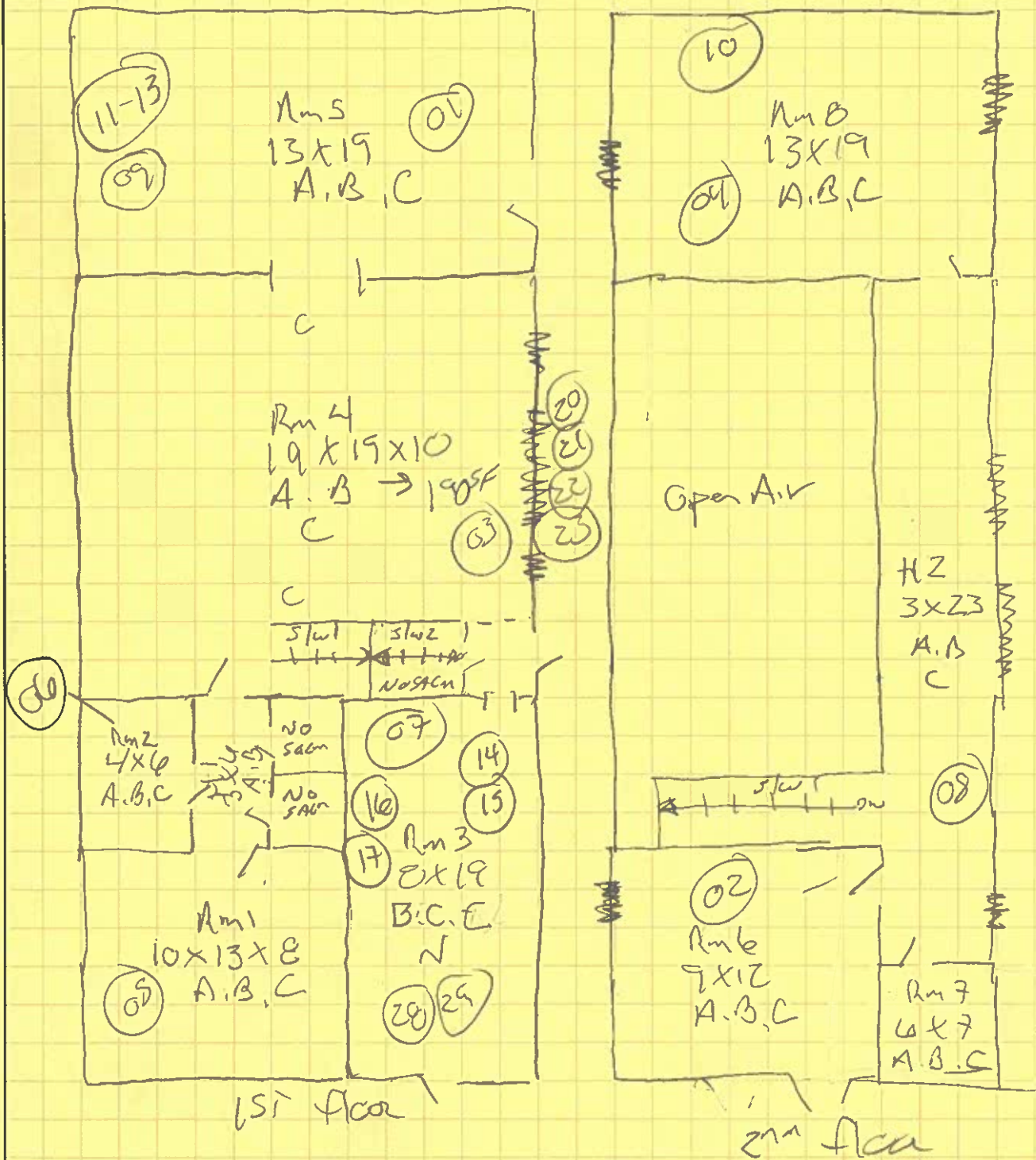


HZW ENVIRONMENTAL
CONSULTANTS, LLC

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

PROJECT 30417 Lakeshore Blvd.
PROJECT NO. 421094-08
PAGE NO. _____ OF _____
FIELD REPRESENTATIVE CR DATE 02/09/11
SCALE _____

INDICATE DIRECTION
OF NORTH





**HZW ENVIRONMENTAL
CONSULTANTS, LLC**

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

PROJECT 30417 Lakeshore Blvd.

PROJECT NO. HC1094-08

PAGE NO. _____

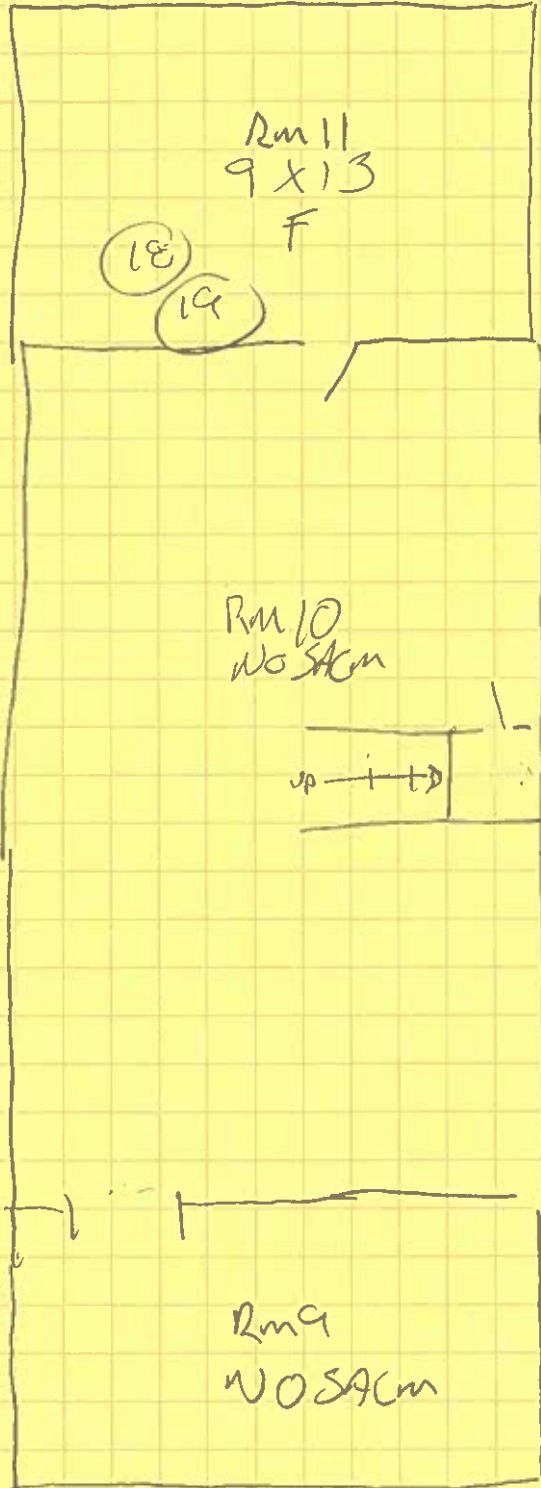
OF _____

FIELD REPRESENTATIVE ca

DATE 06/09/10

SCALE _____

INDICATE DIRECTION
OF NORTH



Basement

Garage

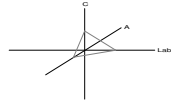


ATTACHMENT 2

➤ **LABORATORY ANALYTICAL REPORT**

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

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

HZW Environmental Consultants

6105 Heisley Rd.
Mentor, OH 44060

Attn: Joan Sablar

Customer Project: 30417 Lakeshore Blvd; H21094-08
Reference #: CBR23064621

Date: 6/23/2023

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.

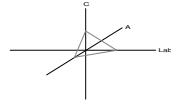
Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

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:	30417 Lakeshore Blvd; H21094-08		CA Labs Project #:	CBR23064621
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

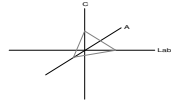
Gold Vermiculite Insulation

11	11-1	Gold Vermiculite Insulation	2% Tremolite
12	12-1	Gold Vermiculite Insulation	2% Tremolite
13	13-1	Gold Vermiculite Insulation	2% Tremolite

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)	

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, AIHA LAP, LLC, 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.



Polarized Light Asbestiform Materials Characterization

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HzW Environmental Consultants
 6105 Heisley Rd.
 Mentor, OH 44060

Customer Project:
 30417 Lakeshore Blvd;
 H21094-08

CA Labs Project #:
 CBR23064621

Turnaround Time: 5 days

Date: 6/23/2023
Samples Received: 6/19/2023
Date Of Sampling:
Purchase Order #: 2023-03

Phone # 440-357-1260
 Fax # 440-357-1510

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
01				White Surfaced White Finishing				
		01-1		Plaster	N	None Detected		100% qu, gy, bi, ca
		01-2		Tan Plaster	Y	None Detected		100% qu, ma, ca
02				White Surfaced White Finishing				
		02-1		Plaster	N	None Detected		100% qu, gy, bi, ca
		02-2		Tan Plaster	Y	None Detected		100% qu, ma, ca
03				Green Surfaced White				
		03-1		Finishing Plaster	N	None Detected		100% qu, gy, 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:

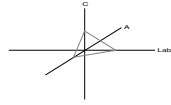
Sidney Pinkerton
 Analyst

Senior Analyst
 Alicia Stretz

Laboratory Director
 Chris Williams

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 2. Fire Damage no significant fiber damages effecting fibrous percentages
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 5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
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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



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		03-2		Tan Plaster	Y	None Detected		100% qu, ma, ca
		03-3		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
04		04-1		White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, bi, ca
		04-2		Tan Plaster	Y	None Detected		100% qu, ma, ca
		04-3		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
05		05-1		White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, bi, ca
		05-2		Tan Plaster	Y	None Detected		100% qu, ma, ca

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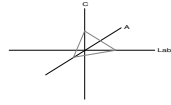
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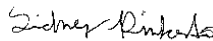
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		05-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
06		06-1	Tan Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, bi, ca
		06-2	Gray Plaster	Y	None Detected		100% qu, ma, ca
07		07-1	Gray Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, bi, ca
		07-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
08		08-1	Green Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, bi, ca
		08-2	Tan Plaster	Y	None Detected		100% qu, ma, ca

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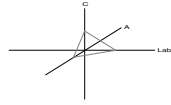
Approved Signatories:


 Sidney Pinkerton
 Analyst


 Senior Analyst
 Alicia Stretz
 Laboratory Director
 Chris Williams

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09		09-1	Gray Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, bi, ca
		09-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
10		10-1	Brown Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, bi, ca
		10-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
11	8,10	11-1	Gold Vermiculite Insulation	Y	2% Tremolite		98% ve
12	8,10	12-1	Gold Vermiculite Insulation	Y	2% Tremolite		98% ve
13	8,10	13-1	Gold Vermiculite Insulation	Y	2% Tremolite		98% ve

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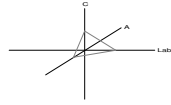
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14		14-1	Tan Sealant	Y	None Detected	5% ce	95% qu, ma, bi, ca
15		15-1	White Sealant	Y	None Detected	5% ce	95% qu, ma, bi, ca
16		16-1	Gray Linoleum	Y	None Detected	20% ce	80% qu, ma
		16-2	White Mastic	Y	None Detected		100% qu, bi
		16-3	Tan Linoleum	Y	None Detected	20% ce	80% qu, ma
17		17-1	Gray Linoleum	Y	None Detected	20% ce	80% qu, ma
		17-2	White Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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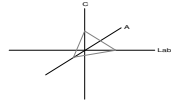
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		17-3	Tan Linoleum	Y	None Detected	20% ce	80% qu, ma
		17-4	White Mastic	Y	None Detected		100% qu, bi
18		18-1	Brown Ceiling Tile	Y	None Detected	90% ce	10% qu, bi
19		19-1	Brown Ceiling Tile	Y	None Detected	90% ce	10% qu, bi
20		20-1	Tan Sealant	Y	None Detected		100% qu, ma, ca
21		21-1	Tan Sealant	Y	None Detected		100% qu, ma, ca
22		22-1	Tan Sealant	Y	None Detected		100% qu, ma, ca

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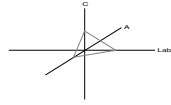
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23		23-1	White Sealant	Y	None Detected		100% qu, ma, ca
24		24-1	Tan Surfaced White Compound	N	None Detected		100% qu, pe, bi, ca
		24-2	White Compound Beneath Tape	Y	None Detected		100% qu, pe, ca
		24-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
25		25-1	Tan Surfaced White Compound	N	None Detected		100% qu, pe, bi, ca
		25-2	White Compound Beneath Tape	Y	None Detected		100% qu, pe, ca
		25-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

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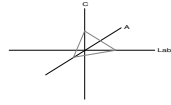
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26		26-1	Tan Sealant	Y	None Detected	5% ce	95% qu, ma, bi, ca
27		27-1	Tan Sealant	Y	None Detected	5% ce	95% qu, ma, bi, ca
28		28-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		28-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
29		29-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		29-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

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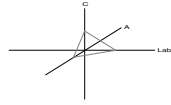
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1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous 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 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: Joan Sablar
HzW Environmental Consultants
 6105 Heisley Rd.
 Mentor, OH 44060

Customer Project:
 30417 Lakeshore Blvd;
 H21094-08

CA Labs Project #:
 CBR23064621

Phone # 440-357-1260
 Fax # 440-357-1510

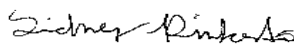
Turnaround Time: 5 days

Date: 6/23/2023
Samples Received: 6/19/2023
Date Of Sampling:
Purchase Order #: 2023-03


Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
11	11-1	Gold Vermiculite Insulation	Y	0.75% Tremolite
12	12-1	Gold Vermiculite Insulation	Y	1.00% Tremolite
13	13-1	Gold Vermiculite Insulation	Y	0.75% Tremolite

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

Chain of Custody

Client Name: HW Environmental Consultants, LLC CA Labs job # CBR 23064621
 Client Address: 6105 Heistley Rd Billing Address: _____
Mentor, Ohio (if different) _____
44060
 phone number: (440) 357-1260
 fax number: (440) 357-1510 Send Reports to: MTFerguson@HWEnv.com
 Project Number: H21094-08 Project Name: 30417 Lakeshore Blvd.
 Contact: Jean Seabier Reports Results VIA: EMAIL FAX _____ VERBAL _____

Total # Samples Submitted: <u>29</u>	Total # Samples to be Analyzed: <u>29</u>	Material Matrix: Air / Bulk / Water
---	--	--

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	<i>2 hour</i>	Allergen Particle:	<i>2 hour</i>
AHERA	4 hour	Improved	4 hour	tape/bulk/swab	4 hour
EPA Level II	8 hour	Interim	8 hour	Cyclex-d cassettes	8 hour
Drinking Water	16 hour		16 hour	Air-o-cell cassettes	16 hour
Wipe	24 hour	AHERA	24 hour	Anderson cultures	24 hour
Micro-vac	2 days		2 days	Bulk/swab cultures	2 days
NIOSH 7402	3 days	Point Count -	3 days	Bacteria cultures	3 days
Chatfield Bulk	5 days	(NESHAPS)	5 days	PCM: NIOSH 7400	5-10 days

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	TCLP
TA Time:	8 hour	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
01	Ceiling flash at SIC		
02	car DW board		
03			
04			
05			

Custody Information:
 Samples relinquished: [Signature] / 06-16-03 / 2:00pm
 Signature / Date / Time
 Samples received: Carey Bracey / 6/19/23 / 9:40
 Signature / Date / Time

STOP AT 1ST (+)
 Later / Composite / P.C. when indicated.
 Point count 3% or less



12232 Industriplex
Suite 32
Baton Rouge, LA 70809

Phone: 225-751-5632
Fax: 225-751-5634
After hours Mobile: 225-993-3471

Client Name: _____

CA Labs job # **CBR 23064621**

Client Address: _____

Billing Address: _____

(if different) _____

phone number: _____

fax number: _____

Send Reports to: _____

Project Number: #21094-08

Project Name: 30517 Lakeshore Blvd

Reports Results

Contact: _____

VIA: EMAIL ___ FAX ___ VERBAL ___

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
06	Wall splash of stc		
07)		
08			
09			
10			
11	vermiculite		
12)		
13			
14	smk fins		
15)		
16		VSF w/mas	
17			
18	ceiling tile		
19			
20	window glazing		
21			
22	window glazing		
23)		
24		D/w system J Layer (composite) / P.C.	
25			
26	smk fins		
27)		
28		D/w system J Layer (composite) / P.C.	
29			

For internal use:

Any initial changes regarding project (indicate yes by checking line) _____

Custody Information:

Samples relinquished:

[Signature]
Signature / Date / Time
06-16-23 / 2:00pm

Samples received:

9:40
[Signature]
Signature / Date / Time
6/19/23

Samples relinquished:

Signature / Date / Time

Samples received:

Signature / Date / Time

Pre-construction Photos
4968 Orchard, Mentor



Pre-construction Photos
4968 Orchard, Mentor



COMPREHENSIVE ASBESTOS SURVEY

4968 Orchard Road
Mentor, Lake County, Ohio

August 15, 2023

Prepared for:
CT Consultants, Inc.
8150 Sterling Court
Mentor, Lake County, Ohio 44060

Prepared by:



6105 Heisley Road ♦ Mentor, Ohio 44060
440-357-1260 ♦ Fax 440-357-1510



HZW
Environmental
Consultants

August 15, 2023

Ms. Phyllis Dunlap
CT Consultants, Inc.
8150 Sterling Court
Mentor, Ohio 44060

Subject: *Report of Findings from a Comprehensive Asbestos Survey Conducted at One (1) Residential Structure Located at 4968 Orchard Road, Mentor, Lake County, Ohio (HZW Project No. H21094-08)*

Dear Ms. Dunlap:

HZW Environmental Consultants, LLC (HZW) is pleased to submit this letter report that presents the findings from a comprehensive asbestos survey conducted at 4968 Orchard Road, Mentor, Ohio, herein referred to as the “subject structure”. As indicated by CT Consultants, Inc. (the Client) the subject structure is scheduled to be demolished. The purpose of the asbestos survey was to identify asbestos-containing materials (ACMs) located at the subject structure prior to demolition activities being performed. A photograph depicting the exterior of the subject structure is provided below.



Photograph 01

Exterior View of the Structure Located at
4968 Orchard Road, Mentor, Lake County, Ohio

METHODS OF INVESTIGATION

General

During May 2023, a representative of HZW, certified as an Asbestos Hazard Evaluation Specialist (AHES), performed a comprehensive asbestos survey at the subject structure. This certification is required to be maintained by the inspector in accordance with the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) and the Ohio Environmental Protection Agency (Ohio EPA) asbestos regulations.

The asbestos survey was conducted in accordance with the Environmental Protection Agency's (EPA) National Emissions Standard for Hazardous Air Pollutants (NESHAP) survey protocol. NESHAP regulations require no specific survey protocol be followed; however, the Asbestos Hazard Emergency Response Act (AHERA) protocol is recommended. Therefore, the asbestos survey at the subject structure was conducted in accordance with AHERA protocol. AHERA protocol requires that each building and/or building construction be surveyed separately for building materials suspect for containing asbestos. In addition, AHERA protocol requires that all functional spaces (specific area or building construction within a building) also be identified. Once the functional spaces are identified, then all homogeneous areas of building materials located in a specific functional space and suspect for containing asbestos are subsequently 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.

Bulk Sampling Protocol

In accordance with AHERA, HZW classified each homogeneous area/building material suspect for containing asbestos into one (1) of three (3) categories, based on the material's ability to be crumbled, pulverized, or reduced to powder by hand pressure (herein referred as "friable"), prior to performing the bulk sampling activities. These three (3) categories are as follows:

Surfacing Materials	Thermal System Insulation (TSI)	Miscellaneous Friable and Nonfriable Materials
Examples include fireproofing and acoustical plaster.	Examples include, but are not limited to pipe lagging, pipe wrap, block insulation, batt insulation and mudded fitting insulation.	Examples of miscellaneous friable materials include, but are not limited to ceiling tile, drywall and joint compound. Examples of nonfriable materials include, but are not limited to, floor tile and mastic, roofing materials and transite.

Once categorized, HZW subsequently determined the quantity of each homogeneous area/building material within each specific functional space. HZW based the bulk sampling protocol on the AHERA category assigned to a specific homogeneous area/building material and the quantity of that area/material identified. The bulk sampling protocol performed at the subject structure consisted of the following:

- For Surfacing Materials, if the quantity of the homogeneous area/material is less than 1,000 square feet (ft²), HZW collects a minimum of three (3) samples from this area/material. If the size of the homogeneous area/material is between 1,000 and 5,000 ft², then HZW collects a minimum of five (5) samples from this area/material. If the size of the homogeneous area/material is greater than 5,000 ft², then HZW collects a minimum of seven (7) samples from this area/material.
- For TSI, HZW either assumes the suspect material contains asbestos or collects at least three (3) bulk samples from each specific homogeneous area/material identified. Duct insulation was not sampled and was therefore assumed to contain asbestos.
- For Miscellaneous Friable Materials and Nonfriable Materials, The number of bulk samples HZW collects of these materials is at the discretion of the inspector and in a “manner sufficient” to prove the asbestos content of the material. Flooring materials and roofing materials identified in good to fair condition were not sampled and were therefore assumed to contain asbestos.

Condition Categorization

In determining the condition of a material, HZW used the following guidelines:

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

Analytical Laboratory

Any bulk samples collected were submitted to CA Labs, LLC of Baton Rouge, Louisiana, for analysis of asbestos content by polarized light microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116. Building materials identified by PLM as containing two (2) percent asbestos or less were subsequently analyzed by 400 Point Count Methodology.

ASBESTOS REGULATIONS

Federal Regulations

The Occupational Safety and Health Administration’s (OSHA’s) Asbestos Standard for the Construction Industry (29 CFR 1926.1101) regulates all renovation and demolition work involving buildings materials which contain any amount of asbestos. Building owners and/or contractors who perform renovation and/or demolition activities which disturb buildings materials identified as containing asbestos are required to conduct these activities in accordance with OSHA’s Asbestos Standard. An asbestos-containing material (ACM), as defined by OSHA and the EPA, is any material containing more than one percent (1%) asbestos as determined by Polarized Light Microscopy (PLM).

The Asbestos NESHAP (40 C.F.R. Part 61, Subpart M) regulates which ACMs must be removed prior to renovation and demolition activities being performed. If the quantity of regulated ACMs (RACMs) to be disturbed as part of a renovation or demolition activity meets or exceeds 160 square feet on facility components, 260 linear feet on pipes or 35 cubic feet off facility components, then the activity would be regulated under the Asbestos NESHAP. RACMs are defined as 1) friable ACMs, 2) Category I Nonfriable ACMs that has become friable, 3) Category I Nonfriable ACMs that will be or have been subjected to sanding, grinding, cutting or abrading, or 4) Category II Nonfriable ACMs that have a high probability of becoming or have become crumbled, pulverized, or reduced to powder by the forces expected to act on the materials in the course of the demolition or renovation activities. A friable ACM is a material that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Examples of friable ACMs consist of asbestos-containing pipe insulation, fireproofing, and ceiling tile. Examples of Category I Nonfriable ACMs consist of asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products. Examples of Category II Nonfriable ACMs consist of any material, excluding Category I Nonfriable ACMs.

State Regulations

The Ohio EPA Asbestos regulations are under Chapter 3745-20 and 3745-22 of the Ohio Administrative Code (OAC) also referred to as the “Emission Control Rules”. Chapter 3745-20 is nearly identical to the Asbestos NESHAP, 40 CFR, Part 61, Subpart M, cited above. Chapter 3745-22 is the former Ohio Department of Health asbestos “Licensing Rules”, which on January 1, 2018, were adopted by the Ohio EPA. Chapter 3745-22 encompasses the rules governing asbestos hazard abatement contractors, specialists, project designers, workers, and training courses.

Under the Asbestos NESHAP and Ohio EPA Asbestos regulations the “Notification of Demolition and Renovation” form is required to be submitted ten (10) days prior to any of the following activities being performed:

- Demolition of a facility, regardless of whether asbestos is involved. This includes all structure that will be intentionally burned for fire training purposes.
- Renovation of a facility when the amount of RACM stripped, removed, dislodged, cut, drilled, or similarly disturbed exceeds 260 linear feet on pipes or 160 square feet on other facility components or 35 cubic feet off facility components.
- Abatement at a facility when the activity involves the removal, renovation, enclosure, repair or encapsulation of *friable* ACMs in an amount greater than 50 linear feet on pipes or 50 square feet on other facility components.

FINDINGS AND DISCUSSION

HZW’s Asbestos Bulk Sampling Information form and a site sketch documenting the room designations and bulk sampling locations at the subject structure are included as **Attachment 1**. HZW’s Asbestos Bulk Sampling Information form documents the bulk sampling locations, each sample’s characterization (homogeneous area and functional space), sample validation, sample number, AHERA category, quantity/condition (if identified as containing asbestos) and asbestos content for each sample. The building materials highlighted in “red” font on HZW’s Asbestos Bulk Sampling Information form are required to be abated prior to demolition activities being performed. Any building materials identified as containing less than one (1) percent asbestos or any assumed Category I Nonfriable ACMs identified in good condition on HZW’s Asbestos Bulk

Sampling Information form can remain within the subject structure during the demolition activities. A copy of the laboratory analytical report for the bulk samples collected at the subject structure is included as **Attachment 2**.

The quantities of building materials identified as containing asbestos or assumed to contain asbestos, as presented on HZW's Asbestos Bulk Sampling Information form in Attachment 1, are approximate and represent the majority of accessible building materials that could be quantified during the survey. In addition, demolition of any of the subject structure's ceilings and walls may reveal additional building materials suspected of containing asbestos.

RECOMMENDATIONS

Based on the findings of the comprehensive asbestos survey the following recommendations are presented for consideration:

1. Notify any outside contractor(s) prior to them working at the subject structure of the presence of the building materials identified or assumed to contain asbestos. Contractors disturbing building materials identified or assumed to contain asbestos are required to conduct their activities in accordance with OSHA's Asbestos Standard as well as the Asbestos NESHAP/Ohio EPA Asbestos regulations.
2. Contract with a licensed asbestos abatement contractor in the state of Ohio to abate the building materials highlighted in "red" font on HZW's Asbestos Bulk Sampling Information form prior to demolition activities commencing.
3. Submit the Ohio EPA "Notification of Demolition and Renovation" form to the Ohio EPA 10 days prior to any of the following activities being performed.
 - Demolition of a facility, regardless of whether asbestos is involved. This includes all structure that will be intentionally burned for fire training purposes.
 - Renovation of a facility, when the amount of RACM stripped, removed, dislodged, cut, drilled, or similarly disturbed exceeds 260 linear feet on pipes or 160 square feet on other facility components or 35 cubic feet off facility components.
 - Abatement at a facility, when the activity involves the removal, renovation, enclosure, repair or encapsulation of friable ACM in an amount greater than 50 linear feet on pipes or 50 square feet on other facility components.
4. Ensure that the demolition activities are performed in accordance with Ohio EPA and OSHA regulations.

QUALIFICATIONS

The professional environmental consulting services were provided by HZW's licensed AHES, Mr. Carmen Rocco. Ms. Joan A. Sablar, HZW's Group Leader, was responsible for ensuring that the project was conducted in accordance with all applicable federal, state and local regulations as well as for generation of this report.

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

Sincerely,

HZW ENVIRONMENTAL CONSULTANTS, LLC

Carmen Rocco

Carmen Rocco
Asbestos Hazard Evaluation Specialist
(OEPA License No. ES 33794)

Joan A. Sablar

Joan A. Sablar
Group Leader

CR;cr\mpf\H21094-08

Attachments

I:\2021\H21094-08\12 4968 Orchard Road, Mentor, Ohio\12 4968 Orchard Road, Mentor, Lake County, Ohio Report.doc





ATTACHMENT 1

- ASBESTOS BULK SAMPLING INFORMATION FORM
- SITE DRAWING DOCUMENTING ROOM DESIGNATIONS AND BULK SAMPLING LOCATIONS

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 4968 Orchard Road, Mentor, Lake County, Ohio

HA	HOMOGENEOUS			AHERA CATEGORY			QUANTITY & CONDITION			RESULT ASBESTOS %		
	MATERIAL	LOCATION	VALIDATION FOR SAMPLING	BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR		POOR	
A	Drywall System – Ceiling and Wall	Front Room, Den, Dining Room, Kitchen, Bathroom 1, Bedrooms 1 and 2 and Hallway 3	Number of Samples Determined by Inspector	01							ND	
				02								ND
				03								
B	Skim Coat – Ceiling, Blotch Pattern (Over HA-A)	Den	Minimum 3 Samples	04							ND	
				05								ND
				06								
C	Skim Coat – Ceiling and Wall, Smear Pattern (Over HAS-A and H)	Dining Room and Recreation Room, Bathroom 2 and Room 2 (C) Bedroom 3 (C&W)	Minimum 3 Samples	07							ND	
				08								ND
				09								
E	Vinyl Sheet Flooring – White with Blue Diamonds, Mastic (Over Wood Flooring)	Bathroom 1	Minimum 2 Samples	10							ND	
				11								ND

ND = No Asbestos Detected; NA = Not Analyzed; C = Ceiling; W = Wall
 HZW Project No. H21094-08

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 4968 Orchard Road, Mentor, Lake County, Ohio

HA	MATERIAL	HOMOGENEOUS			AHERA CATEGORY			QUANTITY & CONDITION			RESULT ASBESTOS %
		LOCATION	VALIDATION FOR SAMPLING	BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	
F	Drywall System – Ceiling and Wall, Unfinished	Hallway 1 (c&w) Hallway 2 (c)	Number of Samples Determined by Inspector	12							ND
				13							
G	Skim Coat – Ceiling and Wall, Rough Blotch Pattern (Over HA-A)	Utility Room	Minimum 3 Samples	14		X				316 sq.ft.	2.00
				15							NA
				16							NA
H	Drywall System – Ceiling and Wall	Recreation Room, Bathroom 2, Bedroom 3, Rooms 1, 2 and Stairwell 1	Number of Samples Determined by Inspector	17							ND
				18							ND
				19							ND
				20							ND
				21						ND	

ASBESTOS BULK SAMPLING INFORMATION FORM

Client: CT Consultants, Inc.

Site: 4968 Orchard Road, Mentor, Lake County, Ohio

HA	MATERIAL	HOMOGENEOUS			AHERA CATEGORY			QUANTITY & CONDITION			RESULT ASBESTOS %	
		LOCATION	VALIDATION FOR SAMPLING	BULK SAMPLE NO.	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR		
I	Skim Coat – Ceiling and Wall, Rough Texture (Over HA-H)	Bathroom 2 (W) Stairwell 1 (C) Room 1 and Closet 1 (C&W)	Minimum 3 Samples	22							ND	
				23								ND
				24								
J	Vinyl Sheet Flooring – Yellow Brick Pattern, Mastic (Over Concrete Flooring)	Closet 1	Minimum 2 Samples	25			X		21 sq.ft.		20	
				26								NA
K	Rolled Asphalt Roofing System - Black	Garage Roof	Minimum 2 Samples	27							ND	
				28								ND
M	Window Glazing – Wood Frame	Structure Windows	Minimum 2 Samples	29							ND	
				30								ND
DI- D3	Floor Tile – 12-inch by 12-inch, Mastic (3-types, Over Wood Flooring)	Dining Room, Kitchen, Bathroom 2, Room 2, and Bedroom 3	Category I Non-friable in Good Condition, Not Sampled				X		802 sq.ft.		Assumed	
J	Asphalt Shingle Roofing System - Brown	House Roof	Category I Non-friable in Good Condition, Not Sampled				X		1,300 sq.ft.		Assumed	

ND = No Asbestos Detected; NA = Not Analyzed; C = Ceiling; W = Wall

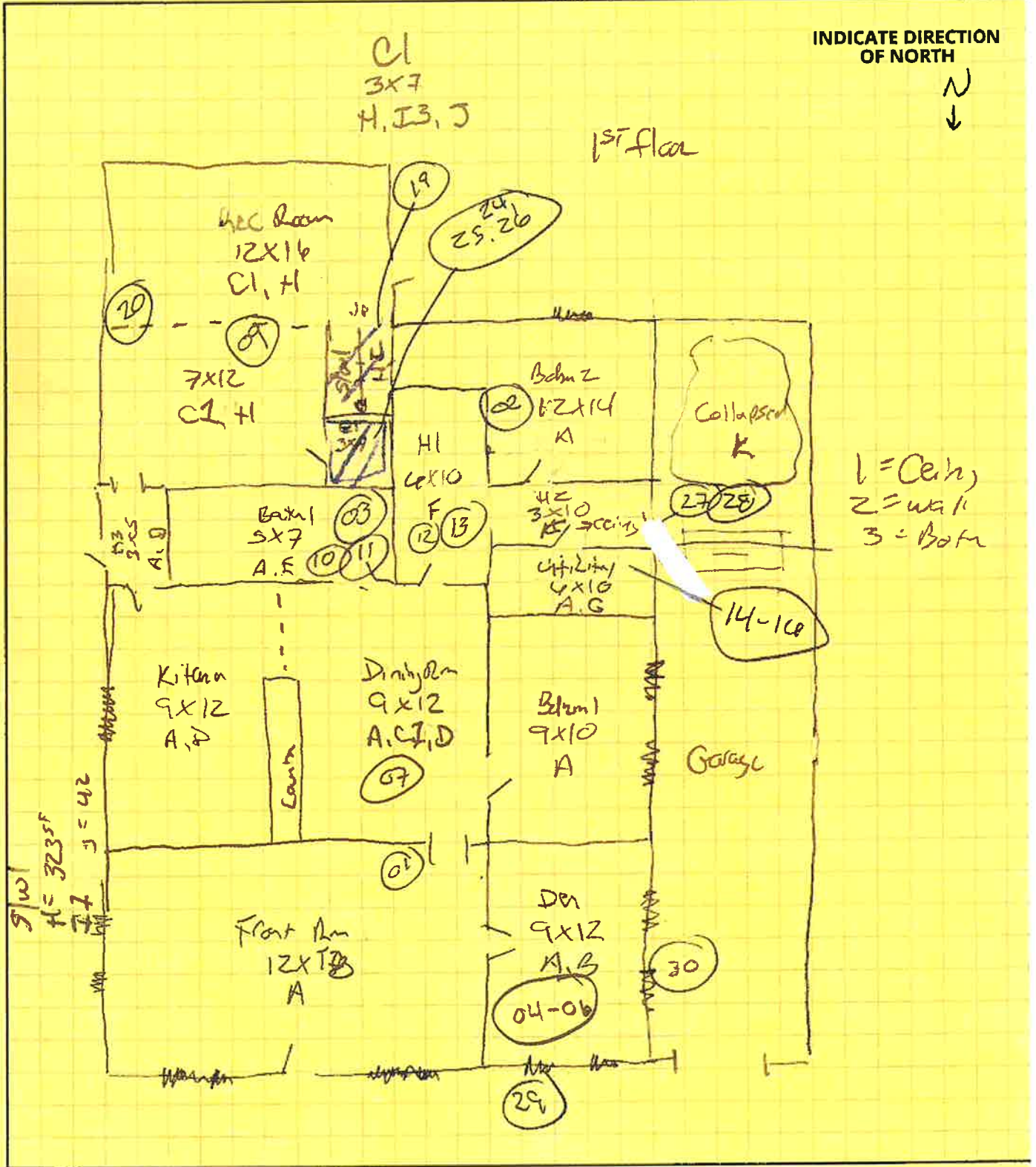
HZW Project No. H21094-08



HZW ENVIRONMENTAL
CONSULTANTS, LLC

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

PROJECT 4968 Orchard Rd. Wala
PROJECT NO. HZ1094-08
PAGE NO. _____ OF _____
FIELD REPRESENTATIVE ca DATE 05/24/08
SCALE _____ (W)



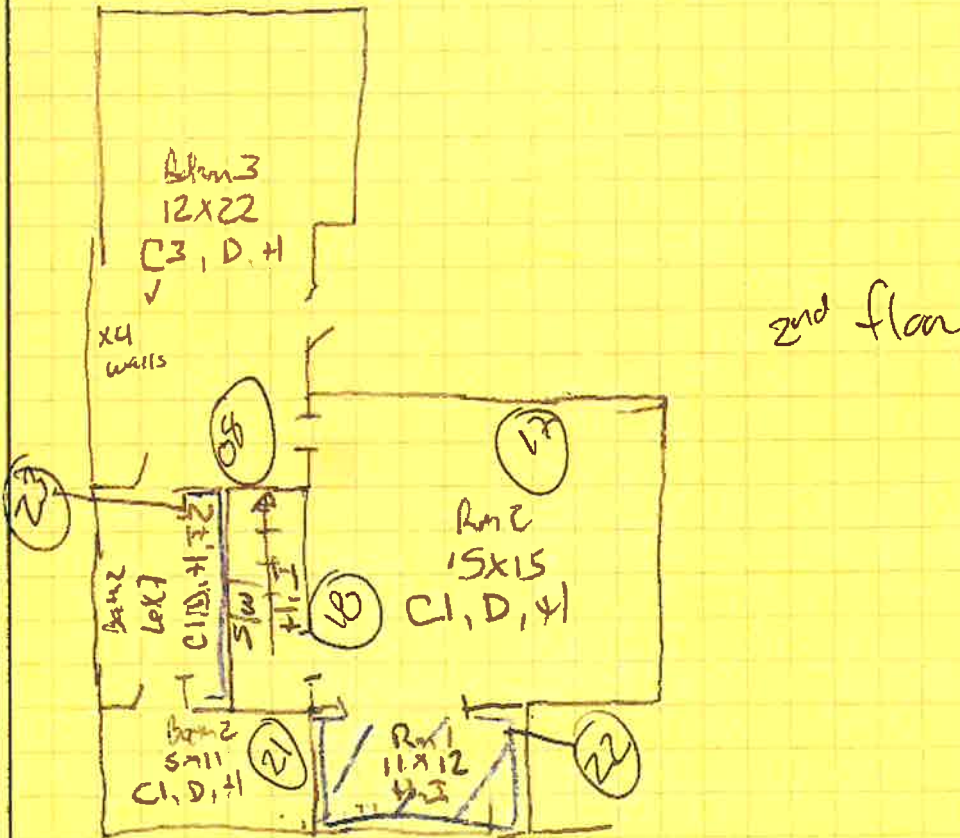
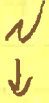


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Fax 440-357-1510
A Woman-Owned Business Enterprise

PROJECT 4968 Orchard Rd. Mentor
PROJECT NO. HZ1094-08
PAGE NO. _____ OF _____
FIELD REPRESENTATIVE CR DATE 05/24/11
SCALE _____ (W)

INDICATE DIRECTION
OF NORTH



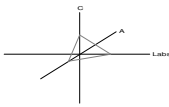


ATTACHMENT 2

➤ **LABORATORY ANALYTICAL REPORT**

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

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

HZW Environmental Consultants

6105 Heisley Rd.
Mentor, OH 44060

Attn: Joan Sablar

Customer Project: 4968 Orchard Rd., Mentor; H21094-08
Reference #: CBR23064109

Date: 6/12/2023

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.

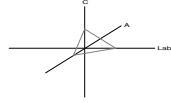
Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In 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 Industriplex, Suite 32 Baton Rouge, LA 70809.

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

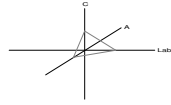
Overview of Project Sample Material Containing Asbestos

Customer Project:	4968 Orchard Rd., Mentor; H21094-08		CA Labs Project #:	CBR23064109	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
14	14-1	<i>Tan Surfaced White Compound</i>	3% Chrysotile	<i>Tan Surfaced White Compound</i> <i>Tan Linoleum</i>	
25	25-1	<i>Tan Linoleum</i>	20% Chrysotile		

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

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

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, AIHA LAP, LLC, 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.



Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Joan Sablar
HzW Environmental Consultants
6105 Heisley Rd.
Mentor, OH 44060

Customer Project:
4968 Orchard Rd., Mentor;
H21094-08

CA Labs Project #:
CBR23064109

Turnaround Time: 5 day

Date: 6/12/2023
Samples Received: 6/6/2023
Date Of Sampling:
Purchase Order #: 2023-03

Phone # 440-357-1260
Fax # 440-357-1510

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
01		01-1		White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		01-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
02		02-1		Blue Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		02-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
03		03-1		Tan Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		03-2		White Compound Beneath Tape	Y	None Detected		100% qu, mi, ca
		03-3		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)
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:

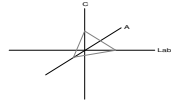
David Darby
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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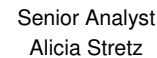
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
04		04-1	White Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca
05		05-1	White Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca
06		06-1	White Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca
07		07-1	Brown Textured Surfacing	N	None Detected		100% qu, mi, bi, ca
		07-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
08		08-1	Gray Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
09		09-1	Gray 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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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:

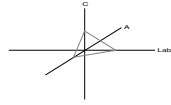

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 Analyst


 Senior Analyst
 Alicia Stretz


 Laboratory Director
 Chris Williams

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	09-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
10	10-1		White Linoleum	Y	None Detected	20% ce	80% qu, ma
11	11-1		White Linoleum	Y	None Detected	20% ce	80% qu, ma
	11-2		Tan Mastic	Y	None Detected		100% qu, bi
12	12-1		White Compound	Y	None Detected		100% qu, mi, ca
	12-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
13	13-1		White Compound	Y	None Detected		100% qu, mi, ca


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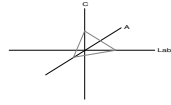

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				13-2 White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
14		14-1		Tan Surfaced White Compound	N	3% Chrysotile		97% qu, mi, bi, ca
15		15-1		Tan Surfaced White Compound	N	Positive Stop		
16		16-1		Tan Surfaced White Compound	N	Positive Stop		
17		17-1		White Compound	Y	None Detected		100% qu, mi ,ca
				White Compound Beneath				
		17-2		Tape	Y	None Detected		100% qu, mi ,ca
				17-3 White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

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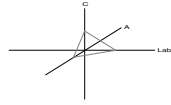
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18		18-1	White Compound	Y	None Detected		100% qu, mi, ca
		18-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
			Brown Surfaced White				100% qu, mi, bi, ca
19		19-1	Compound	N	None Detected		
		19-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
20		20-1	White Compound	Y	None Detected		100% qu, mi, ca
		20-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
			Blue Surfaced White				100% qu, mi, bi, ca
21		21-1	Compound	N	None Detected		


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ma - matrix	qu - quartz	sy - synthetic	

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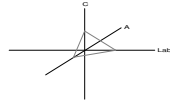

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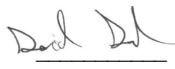
Phone # 440-357-1260
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	21-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
22	22-1		Purple Textured Surfacing	N	None Detected		100% qu, mi, bi, ca
23	23-1		White Textured Surfacing	N	None Detected		100% qu, mi, bi, ca
	23-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
24	24-1		White Textured Surfacing	N	None Detected		100% qu, mi, bi, ca
	24-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
25	25-1		Tan Linoleum	Y	20% Chrysotile		80% qu, ma

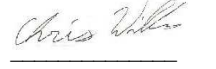
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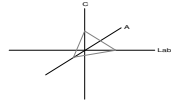

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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
26		26-1	Tan Linoleum	Y	Positive Stop		
27		27-1	Black Shingle with Black Gravel	Y	None Detected	70% fg	30% qu, ma, bi
28		28-1	Black Shingle with Black Gravel	Y	None Detected	70% fg	30% qu, ma, bi
29		29-1	Gray Sealant	Y	None Detected		100% qu, ma, ca
30		30-1	Gray Sealant	Y	None Detected		100% qu, ma, ca


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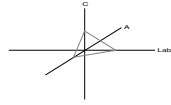

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Polarized Light Asbestiform Materials Point Count
Laboratory Analysis Report - Point Count

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.

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Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
14	14-1	Tan Surfaced White Compound	N	2.00% Chrysotile

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C.A. Labs, LLC.
12232 Industriplex
Suite 32
Baton Rouge, LA 70809

Phone: 225-751-5632
Fax: 225-751-5634
Mobile: 225-993-3471

Chain of Custody

Client Name: H2W Environmental Consultants, LLC CA Labs job # CBR23064109
 Client Address: 6105 Heisley Rd Billing Address: _____
Mentor, OHIO (if different) _____
44060
 phone number: (440) 357-1260
 fax number: (440) 357-1510 Send Reports to: M.Ferguson@H2WEnv.com
 Project Number: H21094-08 Project Name: 4968 O. Ornd Rd. Mentor
 Contact: Jean Seabler Reports Results VIA: EMAIL FAX _____ VERBAL _____

Total # Samples Submitted: 30	Total # Samples to be Analyzed:	Material Matrix: Air / Bulk / Water
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Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	<i>2 hour</i>	Allergen Particle:	<i>2 hour</i>
AHERA	4 hour	Improved	4 hour	tape/bulk/swab	4 hour
EPA Level II	8 hour	Interim	8 hour	Cyclax-d cassettes	8 hour
Drinking Water	16 hour		16 hour	Air-o-cell cassettes	16 hour
Wipe	24 hour	AHERA	24 hour	Anderson cultures	24 hour
Micro-vac	2 days		2 days	Bulk/swab cultures	2 days
NIOSH 7402	3 days	Point Count -	3 days	Bacteria cultures	3 days
Chatfield Bulk	5 days	(NESHAPS)	5 days	PCM: NIOSH 7400	5-10 days

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	TCLP
TA Time:	8 hour	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
01	DWS/SK		
02			
03			

Custody Information:
 Samples relinquished: [Signature] / 06-05-23 / 9:00 AM Samples received: Carey Braney / 6/6/23 / 10:10
 Signature / Date / Time Signature / Date / Time
 Samples relinquished: _____ Samples received: _____
 Signature / Date / Time Signature / Date / Time

STOP AT 1ST (+) Point count 3% or less
 layer / Composite / A.C. when Indicated



12232 Industriplex
Suite 32
Baton Rouge, LA 70809

Phone: 225-751-5632
Fax: 225-751-5634
After hours Mobile: 225-993-3471

Client Name: _____
Client Address: _____
phone number: _____
fax number: _____
Project Number: H21094-08
Contact: _____

CA Labs job # CBR 23064109
Billing Address: _____
(if different) _____
Send Reports to: _____
Project Name: 4968 Orchard Rd. Mania
Reports Results
VIA: EMAIL _____ FAX _____ VERBAL _____

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
04	SKIN COAT		
05)		
06			
07	SKIN COAT		
08)		
09			
10	USF w/mgs		
11)		
12	D/W system]	Layer/compask/P-C	
13			
14	SKIN COAT		
15)		
16			
17	D/W system]		
18)		
19		Layer/compask/P-C	
20			
21			
22	SKIN COAT		
23)		
24			
25	USF w/mgs		
26)		

For internal use:
Any initial changes regarding project (indicate yes by checking line) _____

Custody Information:
Samples relinquished: [Signature]
Signature / Date / Time

Samples received: [Signature] 10:10
Signature / Date / Time 6/6/23

Samples relinquished: _____
Signature / Date / Time

Samples received: _____
Signature / Date / Time

Pre-demolition Photos
7525 Lauren J Drive, Mentor



Pre-demolition Photos
7525 Lauren J Drive, Mentor



Pre-demolition Photos
7525 Lauren J Drive, Mentor



Pre-demolition Photos
7525 Lauren J Drive, Mentor



NESHAP Asbestos Survey



PROJECT LOCATION

7525 Lauren J Drive
Mentor, Ohio

PREPARED FOR

Lake County Land
Reutilization Corp.

8 North State Street
Painesville, Ohio

ISSUED: April 5, 2024

April 5, 2024

Project No. 241185-20

John Rogers, Executive Director
Lake County Land Reutilization Corp.
8 North State Street
Painesville, Ohio 44077

**NESHAP Asbestos Survey
7525 Lauren J Drive
Mentor, Ohio**

Dear Mr. Rogers:

CT Consultants, Inc. (CT) performed a non-destructive United States Environmental Protection Agency (U.S. EPA) National Emission Standard for Hazardous Air Pollutants (NESHAP) asbestos survey for the house located at 7525 Lauren J Drive, Mentor, Ohio, (site) on March 21, 2024. The asbestos survey was performed for Lake County Land Reutilization Corp. (LCLRC) in accordance with CT's Contract Amendment dated January 31, 2024.

The purpose of the NESHAP asbestos regulation is to protect human health and the environment by minimizing the release of asbestos when facilities that contain asbestos-containing materials (ACM) are renovated or demolished. The U.S. EPA defined an ACM as a material that contains greater than one-percent asbestos by visual estimation of weight.

CT appreciates the opportunity to provide LCLRC with our engineering, consulting, and testing services and we look forward to working with you in the future. Should you have any questions concerning this report, please contact John Zampino (440) 591-4942.

Sincerely,

CT CONSULTANTS, INC.



Rob Serlin
Associate Hazard Evaluation Specialist



John Zampino
Senior Environmental Program
Manager

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Report.docxH:\2024\241185\PHASE\20 7525 Lauren J, Mentor\Report\241185-20 NESHAP Asbestos Survey Report.docx

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Appendices

- Appendix A: CT Certification
- Appendix B: NESHAP Asbestos Survey Summary Table
- Appendix C: Asbestos Analytical Report
- Appendix D: Asbestos Sample Location Maps

1.0 INTRODUCTION

The objective of this project was to collect the data necessary to comply with the NESHAP renovation/demolition inspection requirements at the site structure. To meet this objective, Mr. Robert Serlin of CT Consultants, Inc. (CT) conducted a non-destructive NESHAP asbestos survey of the accessible interior and exterior areas of the house located at 7525 Lauren J Drive, Mentor, Ohio. The subject structure is scheduled to be demolished.

Mr. Serlin is certified by the State of Ohio Environmental Protection Agency (OEPA) –Asbestos Program as an Asbestos Hazardous Evaluation Specialist. A copy of Mr. Serlin’s certification is included in Appendix A.

2.0 ASBESTOS SURVEY

The asbestos survey included the identification of suspect materials and the definition of homogeneous sampling areas (HSA), assessment of the condition of each material, estimation of approximate quantity of the suspect ACM, and collection and analysis of bulk samples from each identified HSA. An HSA is defined as a material that exhibited similar physical characteristics (e.g., texture, surface color, and appearance) and was applied or installed at the same time (if known) as observed by the inspection team utilizing professional judgment and experience.

The samples were collected using a coring device or other means, as appropriate, to collect a cross section of the suspect material. The samples were placed into clean and unused sealable bags marked with unique sample identification numbers. The samples of suspect ACM were transported to EMSL Analytical, Inc. (EMSL) for analysis by Polarized Light Microscopy (PLM). EMSL is accredited by the National Voluntary Laboratory Accreditation Program (NVLP), which is administered by the National Institute of Standards and Technology (NIST).

2.1 Asbestos Survey Analytical Results

Twenty-one suspect ACMs were identified in the accessible areas of the site building from which a total of 43 samples (68 sample layers) were collected and analyzed. The following materials were identified as ACM:

- Approximately 75 s.f. (square feet) of linoleum with gold speckles flooring (HSA 241185-06)
- Approximately 20 s.f. of Lt. gray 6”x 6” square pattern linoleum flooring (HSA 241185-08)

- Approximately 60 s.f. of 12"x 12" square & diamond pattern floor tile and associated mastic (HSA 241185-10)
- Approximately 1,200 s.f. of 12"x 12" square & diamond pattern floor tile and associated mastic (HSA 241185-11)
- Approximately 10 l.f. (linear feet) of black roof flashing caulk (HSA 241185-18)
- Approximately 50 s.f. of mirror wall tile adhesive (HSA 241185-20), assumed
- Approximately 110 s.f. of 4"x 4" ceramic wall tile grout (HSA 241185-21), assumed

Refer to Appendix B for the NESHAP Asbestos Survey Summary Table. The analytical laboratory report is included in Appendix C. A map indicating the sample locations is located in Appendix D.

3.0 CONCLUSION AND RECOMMENDATIONS

The U.S. EPA defines regulated asbestos-containing material (RACM) as: (a) Friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

3.1 Asbestos Survey

The following friable ACM was identified and should be removed prior to demolition activities that would disturb the material:

- Approximately 75 s.f. (square feet) of linoleum with gold speckles flooring (HSA 241185-06); backing is friable
- Approximately 20 s.f. of Lt. gray 6"x 6" square pattern linoleum flooring (HSA 241185-08); backing is friable

The following non-friable Category II ACM was identified or assumed to be ACM and would need to be sampled to determine asbestos content or removed prior to demolition activities that would disturb the material:

- Approximately 10 l.f. (linear feet) of black roof flashing caulk (HSA 241185-18)
- Approximately 50 s.f. of mirror wall tile adhesive (HSA 241185-20), assumed
- Approximately 110 s.f. of 4"x 4" ceramic wall tile grout (HSA 241185-21), assumed

The following non-friable Category I ACM was identified and should be removed prior to

demolition activities that would subject the material to sanding, grinding, cutting, or abrading:

- Approximately 60 s.f. of 12"x 12" square & diamond pattern floor tile and associated mastic (HSA 241185-10)
- Approximately 1,200 s.f. of 12"x 12" square & diamond pattern floor tile and associated mastic (HSA 241185-11)

4.0 LIMITATIONS

CT has made reasonable efforts to identify and quantify suspect ACM based upon the standard of care in the environmental industry existing at the time of the survey. This survey only summarizes the potential presence and estimated quantities of visually observed ACM. Unless otherwise indicated, CT did not perform destructive testing and this survey is limited to areas that were accessible to and visually observed by CT at the time of the survey.

Additional material disturbed during renovation or demolition activities should be evaluated on a case-by-case basis, especially materials that were previously hidden, obscured, or inaccessible, to determine if the material is included in this survey. If a given material is not described in this survey or cannot be identified as a non-suspect material, the material should be assumed to contain asbestos and renovation and/or demolition activities should be halted until sampling and analysis can be accomplished. Parties conducting renovation and/or demolition activities should follow all applicable federal, state, and local regulations in handling identified and suspect ACM.

The information contained in this report was based upon specific parameters and regulations in force at the time of this survey. The information herein is only for the specific use of LCLRC and CT, unless written authorization is obtained from CT. CT accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein, nor does this report represent an instrument of regulatory compliance or an asbestos abatement specification.

Appendix A

CT Certification

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

**Robert
Serlin**



45738 Lakeview Ct, Apt 16104
Novi MI 48377

Certification Number Expiration Date

ES36371

10/24/24

DOB: 9/19/71

Card not Valid
if Altered

Appendix B

NESHAP Asbestos Survey Summary Table

NESHAP ASBESTOS SURVEY SUMMARY
7525 LAUREN J DR.
MENTOR, OH
CT PROJECT NO. 241185

HSA No.	HSA Material Description	Results	Friability	Approximate Quantity [square feet (s.f.)] [linear feet (l.f.)]	Functional Area(s)	Condition
1	Drywall with associated joint compound	N	NF-II	12,000 s.f.	Throughout 1 st floor and Basement laundry room area	Good
2	Beige diamond square pattern linoleum flooring with associated adhesive	N	NF-I	250 s.f.	Kitchen	Good
3	4" tan cove base with associated adhesive	N	NF-II	75 l.f.	Kitchen, Garage, Restroom 3, Laundry	Good
4	White sink undercoat	N	NF-II	1 Each	Kitchen	Good
5	Multi colors square and rectangle stone flooring grout	N	NF-I	30 s.f.	Living room	Good
6	Linoleum with gold speckles flooring associated adhesive	P	F (backing)	75 s.f.	1 st floor closets	Good
		N	NF-II			
7	8"x 8" beige ceramic floor tile grout	N	NF-I	60 s.f.	Restroom 1	Good
8	Lt. gray 6"x 6" square pattern linoleum flooring associated adhesive	P	F (backing)	20 s.f.	Restroom 2	Good
		N	NF-II			
9	18"x 18" rock pattern floor tile with associated adhesive	N	NF-I	300 s.f.	Laundry room, Restroom 3	Good
10	12"x 12" square & diamond pattern floor tile associated mastic	P	NF-I	60 s.f.	Pantry, Garage	Good
		P				
11	12"x 12" tan cracked pattern floor tile associated mastic	P	NF-I	1,200 s.f.	Basement main room	Good
		P				
12	4"x 4" ceiling board	N	NF-II	1,200 s.f.	Basement main room	Good
13	Window frame caulk	N	NF-II	175 l.f.	Exterior	Good
14	Door frame caulk	N	NF-II	90 l.f.	Exterior	Good
15	House roof shingles with associated black paper	N	NF-I	5,000 s.f.	House Roof	Good
16	Gray building caulk	N	NF-II	20 l.f.	Exterior	Good
17	White building caulk	N	NF-II	20 l.f.	Exterior	Good

RESULTS:
P: Positive
N: Negative
A: Assumed Positive

FRIABILITY:
F: Friable
NF-I: Non-Friable Category I
NF-II: Non-Friable Category II

CONDITION:
Good: Little or no damage
Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area
Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

NESHAP ASBESTOS SURVEY SUMMARY
7525 LAUREN J DR.
MENTOR, OH
CT PROJECT NO. 241185

HSA No.	HSA Material Description	Results	Friability	Approximate Quantity [square feet (s.f.)] [linear feet (l.f.)]	Functional Area(s)	Condition
18	Black roof flashing caulk	P	NF-II	10 l.f.	House Roof	Good
19	Shed roof shingles	N	NF-I	200 s.f.	Shed roof	Good
20	Mirror wall tile adhesive	A	NF-II	50 s.f.	Living room	Good
21	4"x 4" ceramic wall tile grout	A	NF-II	110 s.f.	Restroom 1, Restroom 2	Good

RESULTS:

P: Positive
N: Negative
A: Assumed Positive

FRIABILITY:

F: Friable
NF-I: Non-Friable Category I
NF-II: Non-Friable Category II

CONDITION:

Good: Little or no damage
Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area
Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Appendix C

Asbestos Analytical Report



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162406068

Customer ID: TTL63

Customer PO: 241185

Project ID:

Attention: Robert Serlin
CT Consultants Inc
1915 North 12th Street
Toledo, OH 43604

Phone: (419) 460-3632

Fax: (419) 321-6252

Received Date: 03/25/2024 9:06 AM

Analysis Date: 03/27/2024 - 03/28/2024

Collected Date:

Project: 7525 Lauren J Dr., Mentor OH / 241185

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
241185-01A-Drywall <small>162406068-0001</small>	Garage - Drywall with Joint Compound	Brown/White Fibrous Heterogeneous	10% Cellulose	80% Gypsum 10% Non-fibrous (Other)	None Detected
241185-01A-Joint Compound <small>162406068-0001A</small>	Garage - Drywall with Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-01B-Drywall <small>162406068-0002</small>	Kitchen - Drywall with Joint Compound	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
241185-01B-Joint Compound <small>162406068-0002A</small>	Kitchen - Drywall with Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-01C-Drywall <small>162406068-0003</small>	Living Room - Drywall with Joint Compound	White Non-Fibrous Homogeneous	5% Cellulose	85% Gypsum 10% Non-fibrous (Other)	None Detected
241185-01C-Joint Compound <small>162406068-0003A</small>	Living Room - Drywall with Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-01D-Drywall <small>162406068-0004</small>	Bedroom 1 - Drywall with Joint Compound	White Non-Fibrous Homogeneous	5% Cellulose	85% Gypsum 10% Non-fibrous (Other)	None Detected
241185-01D-Joint Compound <small>162406068-0004A</small>	Bedroom 1 - Drywall with Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-01E-Drywall <small>162406068-0005</small>	Bedroom 2 - Drywall with Joint Compound	White Non-Fibrous Homogeneous	5% Cellulose	85% Gypsum 10% Non-fibrous (Other)	None Detected
241185-01E-Joint Compound <small>162406068-0005A</small>	Bedroom 2 - Drywall with Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-01F-Drywall <small>162406068-0006</small>	Bedroom 1 - Drywall with Joint Compound	White Non-Fibrous Homogeneous		95% Gypsum 5% Non-fibrous (Other)	None Detected
241185-01F-Joint Compound <small>162406068-0006A</small>	Bedroom 1 - Drywall with Joint Compound	White Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
241185-01G-Drywall <small>162406068-0007</small>	Room 2 - Drywall with Joint Compound	White Non-Fibrous Homogeneous		95% Gypsum 5% Non-fibrous (Other)	None Detected
241185-01G-Joint Compound <small>162406068-0007A</small>	Room 2 - Drywall with Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 03/28/2024 13:58:23



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162406068
Customer ID: TTL63
Customer PO: 241185
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
241185-02A-Linoleum <small>162406068-0008</small>	Kitchen - Beige Diamond with Square Pattern Linoleum Flooring and Adhesive	Gray/Tan Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
241185-02A-Adhesive <small>162406068-0008A</small>	Kitchen - Beige Diamond with Square Pattern Linoleum Flooring and Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-02B-Linoleum <small>162406068-0009</small>	Kitchen - Beige Diamond with Square Pattern Linoleum Flooring and Adhesive	Tan Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
241185-02B-Adhesive <small>162406068-0009A</small>	Kitchen - Beige Diamond with Square Pattern Linoleum Flooring and Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-03A-Cove Base <small>162406068-0010</small>	Kitchen - 4" Tan Cove Base with Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-03A-Adhesive <small>162406068-0010A</small>	Kitchen - 4" Tan Cove Base with Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-03B-Cove Base <small>162406068-0011</small>	Kitchen - 4" Tan Cove Base with Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-03B-Adhesive <small>162406068-0011A</small>	Kitchen - 4" Tan Cove Base with Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-04A <small>162406068-0012</small>	Kitchen - White Sink Undercoat	White Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
241185-04B <small>162406068-0013</small>	Kitchen - White Sink Undercoat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-05A <small>162406068-0014</small>	Living Room - Multi-color Square and Rectangle Stone Flooring Grout	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	<1% Chrysotile
241185-05B <small>162406068-0015</small>	Living Room - Multi-color Square and Rectangle Stone Flooring Grout	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	<1% Chrysotile
241185-06A-Linoleum <small>162406068-0016</small>	Living Room Closet - Linoleum Flooring with Gold Specks and Adhesive	Gray/Tan/White Fibrous Heterogeneous	10% Cellulose	70% Non-fibrous (Other)	20% Chrysotile
241185-06A-Adhesive <small>162406068-0016A</small>	Living Room Closet - Linoleum Flooring with Gold Specks and Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-06B-Linoleum <small>162406068-0017</small>	Hallway Closet - Linoleum Flooring with Gold Specks and Adhesive				Positive Stop (Not Analyzed)

Initial report from: 03/28/2024 13:58:23



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162406068
Customer ID: TTL63
Customer PO: 241185
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
241185-06B-Adhesive <small>162406068-0017A</small>	Hallway Closet - Linoleum Flooring with Gold Specks and Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-07A <small>162406068-0018</small>	Restroom 1 - 8"x8" Beige Ceramic Floor Tile Grout	Tan Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
241185-07B <small>162406068-0019</small>	Restroom 1 - 8"x8" Beige Ceramic Floor Tile Grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-08A-Linoleum <small>162406068-0020</small>	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive	Gray/White Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
241185-08A-Adhesive <small>162406068-0020A</small>	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-08A-Linoleum <small>162406068-0020B</small>	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive	Gray Fibrous Heterogeneous	10% Cellulose	60% Non-fibrous (Other)	30% Chrysotile
241185-08A-Adhesive <small>162406068-0020C</small>	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-08B-Linoleum <small>162406068-0021</small>	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive	Gray/White Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
241185-08B-Adhesive <small>162406068-0021A</small>	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-08B-Linoleum <small>162406068-0021B</small>	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive				Positive Stop (Not Analyzed)
241185-08B-Adhesive <small>162406068-0021C</small>	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-09A-Floor Tile <small>162406068-0022</small>	Basement - Laundry Room - 18"x18" Rock Pattern Floor Tile with Adhesive	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-09A-Adhesive <small>162406068-0022A</small>	Basement - Laundry Room - 18"x18" Rock Pattern Floor Tile with Adhesive	Tan/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-09B-Floor Tile <small>162406068-0023</small>	Basement - Laundry Room - 18"x18" Rock Pattern Floor Tile with Adhesive	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-09B-Adhesive <small>162406068-0023A</small>	Basement - Laundry Room - 18"x18" Rock Pattern Floor Tile with Adhesive	Tan/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 03/28/2024 13:58:23



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

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EMSL Order: 162406068
Customer ID: TTL63
Customer PO: 241185
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
241185-10A-Floor Tile 162406068-0024	Basement - Pantry - 12"x12" Square/Diamond Pattern Floor Tile with Adhesive	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-10A-Adhesive 162406068-0024A	Basement - Pantry - 12"x12" Square/Diamond Pattern Floor Tile with Adhesive	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-10A-Floor Tile 162406068-0024B	Basement - Pantry - 12"x12" Square/Diamond Pattern Floor Tile with Adhesive	Tan/White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
241185-10A-Adhesive 162406068-0024C	Basement - Pantry - 12"x12" Square/Diamond Pattern Floor Tile with Adhesive	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
241185-10B-Floor Tile 162406068-0025	Basement - Pantry - 12"x12" Square/Diamond Pattern Floor Tile with Adhesive	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-10B-Adhesive 162406068-0025A	Basement - Pantry - 12"x12" Square/Diamond Pattern Floor Tile with Adhesive	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-10B-Floor Tile 162406068-0025B	Basement - Pantry - 12"x12" Square/Diamond Pattern Floor Tile with Adhesive				Positive Stop (Not Analyzed)
241185-10B-Adhesive 162406068-0025C	Basement - Pantry - 12"x12" Square/Diamond Pattern Floor Tile with Adhesive				Positive Stop (Not Analyzed)
241185-11A-Floor Tile 162406068-0026	Basement - Main Room - 12"x12" Tan Cracked Pattern Floor Tile with Adhesive	Tan/White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
241185-11A-Mastic 162406068-0026A	Basement - Main Room - 12"x12" Tan Cracked Pattern Floor Tile with Adhesive	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
241185-11B 162406068-0027	Basement - Main Room - 12"x12" Tan Cracked Pattern Floor Tile with Adhesive				Positive Stop (Not Analyzed)
241185-12A 162406068-0028	Basement - Main Room - 4'x4' Ceiling Board	Brown/White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
241185-12B 162406068-0029	Basement - Main Room - 4'x4' Ceiling Board	Brown/White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected

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EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162406068
Customer ID: TTL63
Customer PO: 241185
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
241185-13A <small>162406068-0030</small>	Exterior - Window Frame Caulk	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-13B <small>162406068-0031</small>	Exterior - Window Frame Caulk	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-14A <small>162406068-0032</small>	Exterior - Door Frame Caulk	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-14B <small>162406068-0033</small>	Exterior - Door Frame Caulk	Gray/Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-15A-Shingle <small>162406068-0034</small>	Roof - Roof Shingles with Black Paper	Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
241185-15A-Paper <small>162406068-0034A</small>	Roof - Roof Shingles with Black Paper	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
241185-15B-Shingle <small>162406068-0035</small>	Roof - Roof Shingles with Black Paper	Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
241185-15B-Paper <small>162406068-0035A</small>	Roof - Roof Shingles with Black Paper	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
241185-16A <small>162406068-0036</small>	Exterior - Gray Building Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-16B <small>162406068-0037</small>	Exterior - Gray Building Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-17A <small>162406068-0038</small>	Exterior - White Building Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-17B <small>162406068-0039</small>	Exterior - White Building Caulk	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-18A <small>162406068-0040</small>	Roof - Black Roof Caulk	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
241185-18B <small>162406068-0041</small>	Roof - Black Roof Caulk				Positive Stop (Not Analyzed)
241185-19A <small>162406068-0042</small>	Shed Roof - Shed Roof Shingle	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
241185-19B <small>162406068-0043</small>	Shed Roof - Shed Roof Shingle	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected

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Project ID:

Analyst(s)

Hannah Morgan (27)

Ross Matlock (40)

Asbestos Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262, A2LA Accredited - Certificate #2845.25

Initial report from: 03/28/2024 13:58:23



Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
6340 CastlePlace Dr.
Indianapolis, IN 46250

PHONE: (317) 803-2997
EMAIL: indianapolisl@emsl.com

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162406068

Customer Information	Customer ID:	TTL63			Billing Information	Billing ID:			
	Company Name:	CT Consultants, Inc.				Company Name:	CT Consultants, Inc.		
	Contact Name:	Robert Serlin				Billing Contact:	Cindy Smith		
	Street Address:	1915 N 12th Street				Street Address:	1915 N 12th Street		
	City, State, Zip:	Toledo, OH 43604	Country:	USA		City, State, Zip:	Toledo, OH 43604	Country:	USA
	Phone:	419-460-3632				Phone:	419-214-5092		
Email(s) for Report:	rserlin@ctconsultants.com, hsingh@ctconsultants.com			Email(s) for Invoice:	csmith@ctconsultants.com				

Project Information					
Project Name/No:	7525 Lauren J Dr., Mentor OH /241185		Purchase Order:	241185	
EMSL LIMS Project ID: <small>(If applicable, EMSL will provide)</small>	US State where samples collected	OH	State of Connecticut (CT) must select project location: <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)		
Sampled By Name:	Robert Serlin	Sampled By Signature:	Date Sampled:	3/21/24	
				No. of Samples in Shipment	43

Turn-Around-Time (TAT)

3 Hour
 6 Hour
 24 Hour
 32 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> POINT COUNT <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) <input type="checkbox"/> POINT COUNT w/ GRAVIMETRIC <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NYS 198.1 (Friable - NY) <input type="checkbox"/> NYS 198.6 NOB (Non-Friable - NY) <input type="checkbox"/> NYS 198.8 (Vermiculite SM-V)		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (Non-Friable - NY) <input type="checkbox"/> TEM EPA 600/R-93/116 w Milling Prep (0.1%) Other Tests (please specify)	
<input checked="" type="checkbox"/> Positive Stop - Clearly Identified Homogeneous Areas (HA)			

Sample Number	HA Number	Sample Location	Material Description
241185-01A		GARAGE	DRYWALL w/ JOINT COMPOUND
-01B		KITCHEN	" "
-01C		LIVING ROOM	" "
-01D		BEDROOM 1	" "
-01E		BEDROOM 2	" "
-01F		BEDROOM 1	" "
-01G		ROOM 2	" "
241185-02A		KITCHEN	BEDROE DRYWALL WITH SQUARE PAPER JOINT COMPOUND AND ADHESIVE
-02B		KITCHEN	" "
241185-03A		KITCHEN	4" TAN COVER BASE WITH ADHESIVE

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment:	Sample Condition Upon Receipt:
Relinquished by: <i>ROBERT SERLIN</i>	Received by: <i>[Signature]</i>
Date/Time: 3/22/24 - 1600	Date/Time: 3/22/24 9:00A
Relinquished by:	Received by:

Controlled Document - Asbestos Bulk R7 9/14/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



Asbestos Bulk Building Materials - Chain of Custody

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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	HA Number	Sample Location	Material Description
241185-03B		KITCHEN	4" TAN CORE BASE WITH ADHESIVE
241185-04A		KITCHEN	WHITE SAUK UNDERCOAT
04B		KITCHEN	" "
241185-05A		LIVING ROOM	MULTI COLORED SQUARE RECTANGLE STONE FLOORING GROUT
05B		" "	" "
241185-06A		LIVING ROOM CLOSET	LINOLEUM FLOORING WITH GOULD SPECKLES AND ADHESIVE
06B		HALLWAY CLOSET	" "
241185-07A		REST ROOM 1	8" x 8" BEIGE CERAMIC FLOOR TILE GROUT
07B		" "	" "
241185-08A		REST ROOM 2	LT. GRAY 6" x 6" SQUARE PATTERNS LINOLEUM w/ADHESIVE
08B		" "	" "
241185-09A		BASEMENT LAUNDRY ROOM	18" x 18" ROCK PATTERN FLOOR TILE w/ADHESIVE
09B		" "	" "
241185-10A		BASEMENT HALLWAY	12" x 12" SQUARE / DIAMOND PATTERN FLOOR TILE w/ADHESIVE
10B		" "	" "
241185-11A		BASEMENT MAIN ROOM	12" x 12" TAN CRACKED PATTERN FLOOR TILE w/ADHESIVE
11B		" "	" "
241185-12A		BASEMENT MAIN ROOM	4' x 4' CERAMIC BOARD
12B		" "	" "
241185-13A		EXTERNAL	WINDOW FRAME CAULK
13B		" "	" "
241185-14A		" "	DOOR FRAME CAULK
14B		" "	" "
241185-15A		ROOF	ROOF SHINGLES w/BLACK PAPER
15B		" "	" "

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: ROBERT SERLIN / [Signature]	Date/Time: 3/22/24 - 1600	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - Asbestos Bulk R7 09/14/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

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Appendix D

Asbestos Sample Location Maps

Project Name _____

Project No. 241185 -20

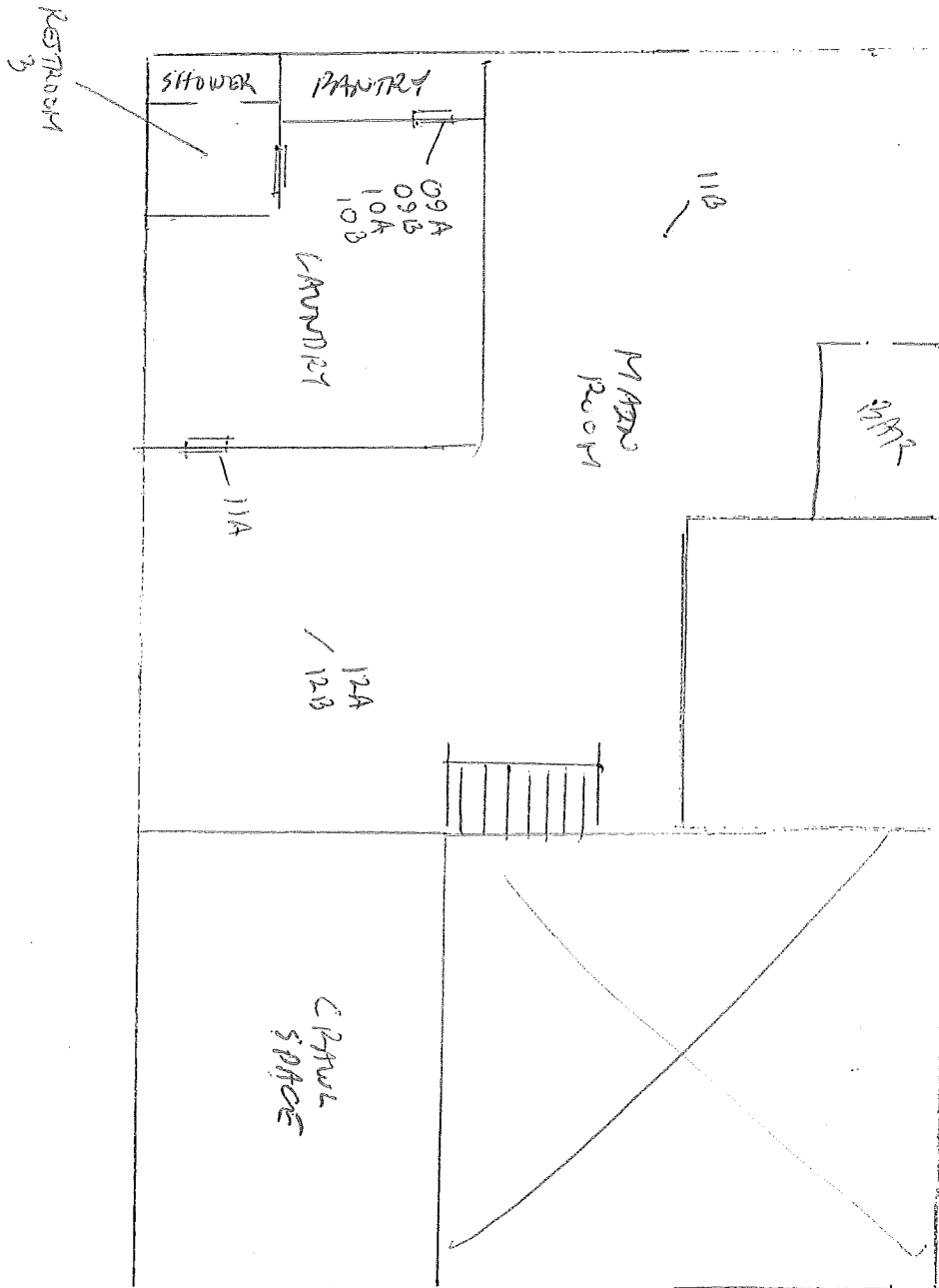
By R-SZELZON

Checked by/Date _____

Subject 7525 LAUREN S DR, MENTOR, OH - BASEMENT

ASBESTOS SAMPLE LOCATION MAP

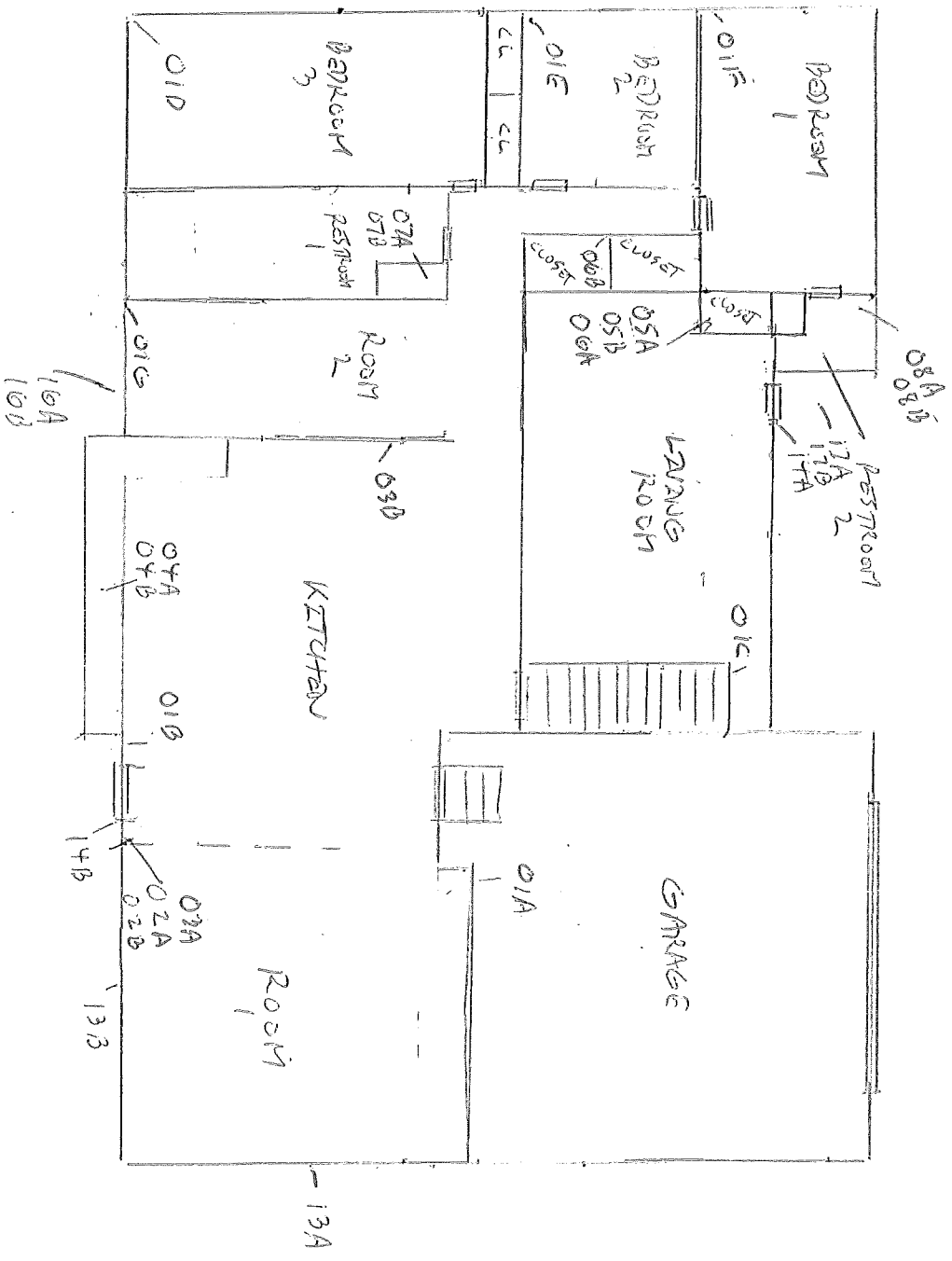
2



Project Name _____ Project No. 241185 -20
 By R-SERLIN Checked by/Date _____
 Subject 7525 LAUREN S DR, MENTOR, OH - 1ST FLOOR

ASBESTOS SAMPLE LOCATION MAP

②



Project Name _____

Project No. 241185 -20

By R-SERLIN

Checked by/Date _____

Subject 7525 LAUREN S DR, MENTOR, OH - ROOF

ASBESTOS SAMPLE LOCATION MAP

②

