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 <u>building@cityofmentor.com</u>

City of Painesville Township

Harley DeLeon (440) 352-1442 <u>hdeleon@painesviletownship.com</u>

City of Willowick

Sean Brennan (440) 516-3000 <u>sbrennan@cityofwillowick.com</u>

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



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

6105 Heisley Road Mentor OH 44060 440-357-1260 800-804-8484

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	Examples include, but are	Examples of miscellaneous
fireproofing and acoustical	not limited to pipe lagging,	friable materials include,
plaster.	pipe wrap, block	but are not limited to
	insulation, batt insulation	ceiling tile, drywall and
	and mudded fitting	joint compound.
	insulation.	
		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 <u>Surfacing Materials</u>, 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	Criteria					
Category						
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 <u>any</u> 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 products. Examples of Category II Nonfriable ACMs consist of asbestos-containing products. Examples of Category II Nonfriable ACMs consist of ACMs consist of 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. Ms. Phyllis Dunlap March 20, 2024 Page 6

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

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

oan Sablar

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

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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

ASBESTOS RESULT Trace 0.25 0.25 0.25 Ŋ Ŋ Ŋ g 22 22 <u>a</u> % QUANTITY & CONDITION 0.25 sq.ft. 0.5 sq.ft. POOR FAIR GOOD MISC. F/NF AHERA CATEGORY TSI SUR. SAMPLE NO. BULK 02 03 04 05 90 07 08 60 0 12 10 Π Minimum 2 Minimum 3 Minimum 2 Minimum 2 Minimum 3 VALIDATION SAMPLING Samples Samples Samples Samples Samples FOR HOMOGENEOUS LOCATION **House** Upper Level Lower Level Upper Level Upper Level House Barn Barn **Barn** Roof Textured Drywall -Window Glazing Window Glazing Asphalt Shingles MATERIAL Drywall Ceiling HA В Ω A J щ

ASBESTOS BULK SAMPLING INFORMATION FORM Client: CT Consultants, Inc.

Client: CT Consultants, Inc. **Site:** 120 Johnnycake Ridge Road, Painesville, Lake County, Ohio

RESULT	ASBESTOS	%		ND		ND	DN	ND	ND	ND	ND	ND	ND	UN UN	ND	UN UN	DN
NDITION	POOR																
rity & cor	FAIR																
QUANT	GOOD																
ORY	MISC.	F/NF															
RA CATEG	IST																
AHE	SUR.																
	BULK	SAMPLE NO.		13		14	15	16	17	18	19	20	21		22		23
	VALIDATION FOR SAMPLING			<1,000 sq.ft.				>1,000 sq.ft. <5,000 sq.ft.					Minimum 3	Samples			
HOMOGENEOUS	LOCATION			House	Upper Level			House Upper Level					House	Upper Level			
	MATERIAL			Ceiling Plaster				Wall Plaster					Drywall System –	Ceiling and Wall			
	HA			щ				ი					Н				

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

RESULT	ASBESTOS	%		15		NA	ND	ND	ND	ND	ND	ND	ND	ΔN
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rity & con	FAIR													
QUANT	GOOD			84	sq.ft.									
RY	MISC.	F/NF		х										
A CATEG	ISI													
AHEF	SUR.													
	BULK	SAMPLE NO.		24		25	26	27	28	29	30	31	32	33
	VALIDATION	FOR	SAMPLING	Minimum 2	Samples		Minimum 2 Samples		Minimum 2 Samples		Minimum 2 Samples		Minimum 2 Samples	
HOMOGENEOUS	LOCATION			House	Upper Level		House Roof		House Roof		House Roof		Shed Roof	
	MATERIAL			Floor Sheeting			Tar Felt Paper		Asphalt Shingles		Asphalt Shingles		Asphalt Shingles	
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ND = No Asbestos Detected; NA = Not Analyzed; *HZW Project No. H21094-08*

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ATTACHMENT 2

➢ LABORATORY ANALYTICAL REPORT

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 SablarCustomer Project:120 Johnnycake Ridge Road; H21094-08Reference #:CBR24021147Date:

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 preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

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

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

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

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

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

Qualifications

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

	CA Labs, L.L.C.		
CA Labs	12232 Industriplex, Suite 32		NVLAP #200772-0
Dedicated to	Baton Rouge, LA 70809	Labs	TDSHS #300370
Quality	Phone 225-751-5632		CDPHE #AL-18111
•	Fax 225-751-5634		LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project	:	120 Johnnycake Ridge Road; H	21094-08	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
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other

pe - perlite qu - quartz fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

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.

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Joan Sablar			Custom	er Project:	CA Labs Project #:		
HzW Envi 6105 Heisle	i ronme ey Rd.	ental C	Consultants	120 Joh H21094	nnycake Ridge Road; -08	CBR24021147	
Mentor, OH	44060					Date:	2/27/2024
Phone #	440-3	357-126	30	Turnaro	ound Time: 5 day	Samples Received:	2/22/2024
Fax #	440-3	857-151	0			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	Ν	2% Chrysotile		98% qu, ma, bi, ca
05		05-1	Black Shingle with Black Gravel	Ν	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

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

Zo Andriampenomanana

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

identification of asbestos types by dispersion attaining / becke line method. ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willis

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Analyst

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

Favorable scenario for water separation on vermiculite for possible analysis by another method
 <1% Result point counted positive

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials

10. TEM analysis suggested

Page 3 of 10

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer HzW Env	Sustomer Info: Attn: Joan Sablar IzW Environmental Consultants 105 Heisley Rd.				nycake Ridge Road;	CA Labs Project #: CBR24021147	
Mentor OF	ey Ra. 1 44060			1121034	-00	Deter	2/27/2024
Phone #	440-3	357-126	50	Turnarc	ound Time: 5 day	Samples Received:	2/22/2024
Fax #	440-3	357-151	10			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
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 gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

Zo Andriampenomanana

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willis

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

 Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials Favorable scenario for water separation on vermiculite for possible analysis by another method
 <1% Result point counted positive

Dedicated to Quality

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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn:		Attn:	Joan Sablar	Custom	er Project:	CA Labs Project #:		
HzW Envi 6105 Heisle	ronme ey Rd.	ental C	Consultants	120 Joh H21094	nnycake Ridge Road; -08	CBR24021147		
Mentor, OH	44060					Date:	2/27/2024	
					und Time: 5 day	Samples Received:	2/22/2024	
Phone # 440-357-1260		50			Date Of Sampling:			
Fax #	440-3	57-151	10			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	
		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	Ŷ	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	Ν	None Detected		100% qu, ma, ca	
17		17-1	White and Gray Plaster	Ν	None Detected		100% qu, ma, ca	
18		18-1	White and Gray Plaster	Ν	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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Laboratory Director Chris Williams

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Dedicated to Quality

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

Polarized Light Asbestiform Materials Characterization

Customer HzW Env 6105 Heisl	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	0/07/0004	
Mentor, Or	H 44060			Turnaround Time: 5 day		Date: Samples Received:	2/27/2024 2/22/2024
Phone #	Phone # 440-357-1260		60 10			Date Of Sampling:	0004.00
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
		21-2	White Compound Beneath Tape	Ŷ	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
		22-2	White Compound Beneath 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.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

Zo Andriampenomanana

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willis

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages effecting fibrous percentages

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4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials

Favorable scenario for water separation on vermiculite for possible analysis by another method
 <1% Result point counted positive

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer HzW Env 6105 Heisle	Customer Info:Attn: Joan SablarHzW Environmental Consultants6105 Heisley Rd.Mentor, OH 44060		: Joan Sablar Consultants	Custon 120 Joh H21094	ner Project: nnnycake Ridge Road; I-08	CA Labs Project #: CBR24021147		
Mentor, OF	44060					Date:	2/27/2024	
Phone #	440-3	857-120	60	Turnar	ound Time: 5 day	Samples Received: Date Of Sampling:	2/22/2024	
Fax #	440-3	857-15 ⁻	10			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	
		Preparati	Analysis Method: Interim (40CFR Par on Method: HCL acid washing for carbonate bas identification of asbestor ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot - other or - organic pe - perlite ma - matrix qu - quartz	t 763 Appendix sed samples, cl s types by disp fg - fibergla mw - minera wo - wollasi ta - talc sy - synthet	k E to Subpart E) / Improved (EPA- hemical reduction for organically be rersion attaining / becke line metho ss ce - cellulose al wool br - brucite tinite ka - kaolin (clay pa - palygorskit ic	600 / R-93/116) bund components, oil immersion fo d. ') e (clay) Appro	or oved Signatories:	
			Jerging .				Chris Willi-	
			Zo Andriampenomanana			Senior Analyst	Laboratory Director	
1 Eine Damann i	diama ()		Analyst			Alicia Stretz	Chris Williams	
 Fire Damage sign Fire Damage no s Actinolite in associ 	significant fiber d significant fibe ciation with Ve	amage - re er damages ermiculite	ported percentages reflect unaltered fibers effecting fibrous percentages		 Antrophyllite in association with Fibro Contamination suspected from other Favorable scenario for water separation 	טיש ואוכ building materials ion on vermiculite for possible analysis by	/ another method	

Actinolite in association with vernincular 4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

8. Favorable scenario for water separati
 9. < 1% Result point counted positive
 10. TEM analysis suggested

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer HzW Envi 6105 Heisle	Customer Info: Attn: Joan Sablar HzW Environmental Consultants 6105 Heisley Rd.		Customer Project: 120 Johnnycake Ridge Road; H21094-08		CA Labs Project #: CBR24021147		
Mentor, OH	1 44060)				Date:	2/27/2024
Phone # 440-357-1260		50 0	Turnaround Time: 5 day S		Samples Received: Date Of Sampling: Purchase Order #:	2/22/2024	
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
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 identification of asbestos types by dispersion attaining / becke line method.

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

fg - fiberglass

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

qu - quartz

Zo Andriampenomanana

mi - mica

ot -other

pe - perlite

ve - vermiculite

Analyst

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

Senior Analyst

Alicia Stretz

Laboratory Director Chris Williams

Chris Willis

Approved Signatories:

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials

ce - cellulose

ka - kaolin (clay)

pa - palygorskite (clay)

br - brucite

Favorable scenario for water separation on vermiculite for possible analysis by another method
 <1% Result point counted positive

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

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

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

Analysis and Method

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

Qualifications

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

Customer Info:Attn: Joan SablarHzW Environmental Consultants6105 Heisley Rd.			Customer Project: 120 Johnnycake Ridge Road H21094-08	CA Labs Project #: d; CBR24021147		
Mentor, OH	44060	1			Date:	2/27/2024
				Turnaround Time: 5 day	Samples Received:	2/22/2024
Phone #	440-3	357-1260			Date Of Sampling:	
Fax #	440-3	357-1510			Purchase Order #:	2024-03
Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type		
01	01-1	Brown Surfaced White Sealant	N	0.25% Chrysotile		
02	02-1	Brown Surfaced White Sealant	Ν	0.25% Chrysotile		
03	03-1	Brown Surfaced Gray 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:

Chris 22

Laboratory Director Chris Williams

ð	Echicy .
70 Ar	ndriampenomanana

Analyst

Senior Analyst Alicia Stretz

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

HzW Envir 6105 Heisle	ronmental Consultants y Rd.		120 Johnnycake Ridge Road; H21094-08	CA Labs Project #: CBR24021147	
Mentor, OH	44060			Date:	2/27/2024
Phone #	440-357-1260		Turnaround Time: 5 day	Samples Received: Date Of Sampling:	2/22/2024
Fax #	440-357-1510			Purchase Order #:	2024-03
Sample #	Layer Analysts Physical # Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type		
04	Brown Surfaced Gray 04-1 Sealant	N	0.25% Chrysotile		
Fax # Sample # 04	440-357-1510 Layer Analysts Physical # Description of Subsample Brown Surfaced Gray 04-1 Sealant	Homo-geneous (Y/N) <i>N</i>	Point Counted % / Asbestos Type 0.25% Chrysotile	Purchase Order #:	

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Zo Andriampenomanana Analyst

Senior Analyst Alicia Stretz Approved Signatories:

Chris Wills

Laboratory Director Chris Williams



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:	HOW TEM	lianadential	CA Labs job #	CBR 24021147
Client Address:	-6105 HEI Mentor,	SLEY LOAN OUT 44060	Billing Address: (if different)	
phone number: fax number: Project Number: Contact:	<u>440</u> 35 <u>440</u> 35 НЯС Тог	7-12/00 7-1510 94-08 W Mizian	Send Reports to: Project Name: Reports Results VIA:	Mfergus@hzweny, com 120 Johnnycake Ridge Rom EMAIL A FAX VERBAL
Total # Samples	Submitted:	Total # Sample	es to be Analyzed:	Material Matrix: Air / Bulk / Water

		niease cali ahead	nlease call ahead for availability of all rush and/or after hours samples.				
ASDESIOS.	TA Time	PLM	TA Time	Optical / IAQ	TA Time		
Circle analysis and TA time		Circle analysis and TA time	2 hour	Allergen Particle:	2 hour		
	Abour	Improved	4 hour	tape/bulk/swab	4 hour		
AHERA	4 11001 9 hour	Interim	8 hour	Cyclex-d cassettes	8 hour		
EPA Level II	16 hour		16 hour	Air-o-cell cassettes	16 hour		
Drinking water	10 110 ur	AHERA	24 hour	Anderson cultures	24 hour		
Wipe	24 HOUL	AIDIGI	2 davs	Bulk/swab cultures	2 days		
Micro-vac	2 days	Point Count -	3 davs	Bacteria cultures	3 days		
NIOSH 7402	3 days	(NIESUADS)	5 days	PCM: NIOSH 7400	5-10 days		
Chatfield Bulk	5 days	(NEORAPS)	Course -				

Lead:	Circle analysis and TA time			1		
Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	TCLP
TA Timo:	8 hour	1 day	2 days	3 days	5 days	6-10 days
TA time.	01104					

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L).
01	Window gluzing		
62	21		
03	6211402 glazing		
04	Li		
	edulum Revision 2 3/12/01	Page 1	<u></u>

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Revision 2 3/12/01

Custody Information: Samples relinquished:

<u>2/16/24</u> ne Samples received: Time Signature

ignature / Date / <u>LL</u> Time

Samples relinquished:

Samples received:

Signature / Date / Time Signature / Date / Time

1:20 2/22/24



12232 Industriplex Suite 32 Baton Rouge, LA 70809 Phone: 225-751-5632 Fax: 225-751-5634 After hours Mobile: 225-993-3471

Client Name:	1-1211	CA Labs job #	CBR 2	4021147
Client Address		Billing Address:		
		(if different)	<u></u>	
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		Sond Reports to-		
fax number:				
Project Number:	121094-08	Project Name:	120 Joh	waychke Kidge Konn
Contact:	·	Reports Results VIA: E	; EMAIL	FAXVERBAL
Sample Number:	Sample Location:	Sample Dat	e/Time:	Sample Volume (L)
05	Asphar shingles			
06				······································
07	Drywrll			
08				
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For internal use:

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

Custody Information: Samples relinguished:

Samples received:

Samples received:

2/22/24 : prare Signature / Date / Time

1:20

Signature / Date / Time

Samples relinquished:

Signature / Date / Time

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:	1+2-W	CA Labs job # CBR24021147
Client Address:		Billing Address:
<u></u>		(if different)
nhone number.		
fay number:		Send Reports to:
Drojoet Number	1101094-62	Project Name: 120 Themarks Ridge Zoul
Floject Number.	FIXI0 19 -3	Reports Results
Contact:		VIA: EMAILFAXVERBAL
Sample Number:	Sample Location:	Sample Date/Time: Sample Volume (L)
28	Alphalt Shimies	
29	4 90	
30	Asphait Shingles	
31	ži	
72	Asphilt Shingles	
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L I		
For internal use:		
Any initial changes rega	arding project (indicate yes by ch	necking line)

Custody Information: Samples relinguished:

Samples received:

2/22/24 are Signature / Date / Time

1:20

Signature / Date / Time

Samples received:

Samples relinquished:

Signature / Date / Time

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



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	Examples of miscellaneous friable materials include, but are not limited to
	insulation, batt insulation and mudded fitting insulation.	ceiling tile, drywall and joint compound.
		Examples of nonfriable materials include, but are not limited to, floor tile and mastic, roofing materials

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 <u>Surfacing Materials</u>, 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	Criteria					
Category						
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 products. Examples of Category II Nonfriable ACMs consist of asbestos-containing products. Examples of Category II Nonfriable ACMs consist of 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

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

Joan A. Sablar Group Leader

MPF;mpf\H21094-08 Attachments I:\2021\H21094-08\15 1220 Madison Avenue, Painesville, Ohio\15 1220 Madison Avenue, Painesville, Lake County, Ohio ACM 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.

Client: CT Consultants, Inc. **Site**: 1220 Madison Avenue, Painesville, Lake County, Ohio

RESULT	ASBESTOS	%		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	ND	Trace	ND	0.25	ND	0.50	ND	0.25
NOITION	POOR													4,200	Sq.ft.								
LITY & CON	FAIR																						
QUANT	GOOD																						
GRY	MISC.	F/NF																					
RA CATEC	IST																						
AHE	SUR.																						
	BULK	SAMPLE NO.		01		02		03		04		05		90		07		08		60		10	
	VALIDATION	FOR	SAMPLING	>1,000 sq.ft.	<5,000 sq.ft.									>1,000 sq.ft. <5,000 sq.ft.									
HOMOGENEOUS	LOCATION			Entire First & Second Floor										Entire First & Second Floor									
	MATERIAL			Ceiling Plaster on	Wood Lath									Wall Plaster on	Wood Lath								
	HA			А										В									

ND = No Asbestos Detected HZW Project No. H21094-08

ASBESTOS BULK SAMPLING INFORMATION FORM Client: CT Consultants, Inc.

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

					n		·		-				
RESULT	ASBESTOS	%		0.50	0.50	ND	ND	QN GN		ND	Assumed		
NOITION	POOR			12 5.2 ft									
rity & con	FAIR												
QUAN	GOOD										192	sq.ft.	
RY	MISC.	F/NF											
RA CATEG	ISI												
AHEI	SUR.												
	BULK	SAMPLE NO.		11	11 12		14	15	16	OT	n-friable in	tion, Not led	
	VALIDATION	FOR	SAMPLING	Minimum 2	odilipe	Minimum 2 Samples		Minimum 2 Samples			Category I N Good Conc Sam		
HOMOGENEOUS	LOCATION			First Floor & Second		Basement	SWODILLAY	House Roof			Stairwell 1, Room 2,	Kitchen	
	MATERIAL			Window Glazing		Window Glazing		Asphalt Shingles			Floor Tile – 12-inch	by 12-inch White, Mastic	
	HA			С		D		ы			ц		

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



ATTACHMENT 2

➢ LABORATORY ANALYTICAL REPORT

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 CBR23107789 Reference #:

10/12/2023

Date:

Analysis and Method

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

Discussion

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

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

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

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

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

Qualifications

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

	CA Labs, L.L.C.	_	
CA Labs	12232 Industriplex, Suite 32		NVLAP #200772-0
Dedicated to	Baton Rouge, LA 70809	Labs	TDSHS #300370
Quality	Phone 225-751-5632		CDPHE #AL-18111
	Fax 225-751-5634		LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Projec	t:	1220 Madison Ave; H21094-08	i	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% Chrvsotile					

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

ca - carbonate	pe - perlite
gypsum - gypsum bi - binder	qu - quartz
or - organic	
ma - matrix	
mi - mica	
ve - vermiculite	
ot - other	

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.

fg - fiberglass

mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Joan Sal HzW Environmental Consulta 6105 Heisley Rd.		Joan Sablar Consultants	Custom 1220 Ma 08	er Project: adison Ave; H21094-	CA Labs Project #: CBR23107789		
Mentor, OH	H 44060)				Date:	10/12/2023
Phone #	440-3	857-126	50 10	Turnaro	und Time: 5 day	Samples Received: Date Of Sampling:	10/6/2023
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	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.

fg - fiberglass

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

Zo Andriampenomanana

mi - mica

ot -other

pe - perlite

qu - quartz

ve - vermiculite

Analyst

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

 Anthophyllite in association with Fibrous Talc
Contamination suspected from other building materials Favorable scenario for water separation on vermiculite for possible analysis by another method
<1% Result point counted positive

Alicia Stretz

10. TEM analysis suggested

ce - cellulose

ka - kaolin (clay)

pa - palygorskite (clay)

br - brucite

Chris Willis Laboratory Director Senior Analyst

Chris Williams

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer	Info:	Attn:	: Joan Sablar	Custom	ner Project:	CA Labs Project #:	
HzW Env	ironme	ental (Consultants	1220 M	adison Ave; H21094-	CBR23107789	
6105 Heisl	ey Rd.			08			
Mentor, Ol	H 44060					Date:	10/12/2023
				Turnaro	ound Time: 5 day	Samples Received:	10/6/2023
Phone #	440-3	857-126	60			Date Of Sampling:	
Fax #	440-3	857-15 ⁻	10			Purchase Order #:	2023-03
Sample #	Com	Layer	Analysts Physical Description of	Homo-	- Asbestos type /	Non-asbestos fiber	Non-fibrous type
	ment	#	Subsample	geneo	calibrated visual	type / percent	/ percent
				us	estimate percent		
				(Y/N)			
		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
							·
			Pink Surfaced White Finishing				100% gu, ma, bi,
06		06-1	Plaster	Ν	None Detected		ca
		06-2	Gray Plaster	Y	2% Chrysotile		98% qu, ma, ca
							·
			Pink Surfaced White Finishing				100% gu. ma. bi.
07		07-1	Plaster	Ν	None Detected		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.

fg - fiberglass

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sy - synthetic

ta - talc

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

Zo Andriampenomanana

mi - mica

ot -other

pe - perlite

qu - quartz

ve - vermiculite

Analyst

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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

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willis

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Anthophyllite in association with Fibrous Talc
Contamination suspected from other building materials

Favorable scenario for water separation on vermiculite for possible analysis by another method
<1% Result point counted positive

10. TEM analysis suggested

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer Info: At HzW Environmenta 6105 Heisley Rd.		Attn: ental C	Joan Sablar Consultants	Custom 1220 Ma 08	er Project: adison Ave; H21094-	CA Labs Project #: CBR23107789	
Mentor, Ol	H 44060)				Date:	10/12/2023
Phone # Fax #	440-3 440-3	357-126 357-15 ⁻	50 10	Turnaro	ound Time: 5 day	Samples Received: Date Of Sampling: Purchase Order #:	10/6/2023
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
09		00.1	Pink Surfaced White Finishing	N	None Detected		100% qu, ma, bi,
00		08-1	Plaster	IN	None Delected		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
		<i>09-2</i>	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) 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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Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Chris Willis

Approved Signatories:

Anthophyllite in association with Fibrous Talc
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<1% Result point counted positive

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10. TEM analysis suggested

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer Info: A		Attn:	Joan Sablar	Custom	er Project:	CA Labs Project #:	
HzW Env 6105 Heisl	ironme ev Bd	ental (Consultants	1220 Ma 08	adison Ave; H21094-	CBR23107789	
Mentor, OH	44060)				Date:	10/12/2023
Phone #	440-3	357-126	50	Turnaro	ound Time: 5 day	Samples Received:	10/6/2023
Fax #	440-3	357-151	10			Purchase Order #:	2023-03
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
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% fa	85% au. 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- <u>2</u>	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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Analyst

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

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willis

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Anthophyllite in association with Fibrous Talc
Contamination suspected from other building materials

Favorable scenario for water separation on vermiculite for possible analysis by another method
<1% Result point counted positive

10. TEM analysis suggested

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

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

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

Analysis and Method

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

Qualifications

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

Customer Info:Attn: Joan SablarHzW Environmental Consultants6105 Heisley Rd.			Customer Project: 1220 Madison Ave; H21094- 08	CA Labs Project #: CBR23107789						
Mentor, OH 44060					Date:	10/12/2023				
Phone # Fax #	440-3 440-3	857-1260 857-1510		Turnaround Time: 5 day	Samples Received: Date Of Sampling: Purchase Order #:	10/6/2023 2023-03				
						_0_0 00				
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.

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Zo Andriampenomanana Analyst

Senior Analyst Alicia Stretz

Chris Will

Laboratory Director Chris Williams

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

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

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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 SablarHzW Environmental Consultants6105 Heisley Rd.			Customer Project: 1220 Madison Ave; H21094- 08	CA Labs Project #: CBR2310778B						
Mentor, Ol	Mentor, OH 44060				Date:	10/26/2023				
Phone #	440-3	357-1260		Turnaround Time: 24 hr	Samples Received: Date Of Sampling:	10/6/2023				
Fax #	440-3	357-1510			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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Zo Andriampenomanana Analyst

Senior Analyst Alicia Stretz

Chris Will

Laboratory Director Chris Williams

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

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

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Customer Info:Attn: Joan SablarHzW Environmental Consultants6105 Heisley Rd.				Customer Project: 1220 Madison Ave; H2109 08	CA Labs Project #: 94- CBR2310778B	
Mentor, OH	44060)			Date:	10/26/2023
Phone # 440-357-1260		857-1260		Turnaround Time: 24 hr	Samples Received:	10/6/2023
Fax #	440-3	357-1510			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		
<u>11</u>	11-1	Green Surfaced Tan Sealant	Ν	0.50% Chrysotile		
12	12-1	Green Surfaced Tan Sealant	N	0.50% 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.

Zo Andriampenomanana Analyst

Senior Analyst Alicia Stretz

Chris Willis

Laboratory Director Chris Williams



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:	HZIN FENN	rundental	CA Labs job #	CBR 23/C	9 ארד כ
Client Address:	LOIDS HEIS	LEY RONS	Billing Address:		
	Menter C	UF 44060	(if different)		·····
_			_		
phone number:				MECISIE	hzwent com
fax number:			Send Reports to:	. /	
Project Number:	121094	1-08	Project Name:	1220 MAd	SON AVE
			Reports Results	·•	
Contact:	· · · · · · · · · · · · · · · · · · ·		VIA:	EMAIL	FAXVERBAL
Total # Samples	Submitted:	Total # Sampl	les to be Analyzed:	Mate	erial Matrix:
16				Air /	Bully / 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					
Circle analysis and TA time	- <u>h</u>	Circle analysis and TA time	2 hour	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)	5 days	PCM: NIOSH 7400	5-10 days					

Lead:	Circle analysis and TA time					
Matrix:	Paint Chips	Paint Chips Soil Air Wipe				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)
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03	/		
<u> </u>			
	reduction 2 2/12/01	 Page 1	

\data\wordpro\forms\ChainofCustody.lwp

Custody Information: Samples relinquished:

Signa Date.

11:40 10/G/23 Samples received: Signature / Date / Time

Samples received:

Samples relinquished:

Signature / Date / Time

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: 🖉	he Furthunnet	CA Labs job # CBR23107789
Client Address:		Billing Address:
	an a	(if different)
phone number:		
fax number:		Send Reports to:
Project Number:	HR1094-08	Project Name: 1220 MANSON AVE
		Reports Results
Contact:		VIA: EMAILFAXVERBAL
Sample Number:	Sample Location:	Sample Date/Time: Sample Volume (L)
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67		
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20		
11	hinden glazig	
12		
14	and a glaster	
15	Alabart Shides	
/6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	•	

For internal use:

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

Custody Information:

Samples relinquished:

Signature / Date / Time

Samples received:

11:40 10/6/23 Signature / Date / Time

Samples relinquished:

Samples received:

Signature / Date / Time

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



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	Examples of miscellaneous friable materials include, but are not limited to
	insulation, batt insulation and mudded fitting insulation.	ceiling tile, drywall and joint compound.
		Examples of nonfriable materials include, but are not limited to, floor tile and mastic, roofing materials

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 <u>Surfacing Materials</u>, 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	Criteria					
Category						
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 products. Examples of Category II Nonfriable ACMs consist of asbestos-containing products. Examples of Category II Nonfriable ACMs consist of 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,

Ms. Phyllis Dunlap July 20, 2023 Page 6

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)

an 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

RESULT	ASBESTOS	%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NDITION	POOR																										
TITY & COI	FAIR																										
QUAN'	GOOD																										
ORY	MISC.	F/NF																									
RA CATEG	IST																										
AHEF	SUR.																										
	BULK	SAMPLE NO.	01			02			03			04			05			90		07		08		60		10	
	VALIDATION	FOR SAMPLING	>1,000 sq.ft.	>1,000 sq.ft. <5,000 sq.ft.										>1,000 sq.ft.	<5,000 sq.ft.								10				
HOMOGENEOUS	LOCATION		Throughout First	Throughout First and Second Floors (Except Room 3, Hallway 1 Closets and Stairwell 2)											Throughout First	and Second Floor	(Except Hallway 1	Closets and	Stairwell 2)								
	MATERIAL		Ceiling Plaster with	Skim Coat – Smooth,	Over Drywall Board													Wall Plaster with	Skim Coat – Smooth,	Over Wire Mesh							
	HA		A															В									_

ASBESTOS BULK SAMPLING INFORMATION FORM Client: CT Consultants, Inc.

y, Ohio
ake County
 Villowick, I
oulevard, V
akeshore B
30417 L
Site:

RESULT	ASBESTOS	%		0.75	1.00	0.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	DN	ND	ND	ND	ND	ND	ND	ND	ND	ND	CIN
QUANTITY & CONDITION	POOR																									
	FAIR			2,100	sq.ft.																					
	GOOD																									
AHERA CATEGORY	MISC.	F/NF																								
	ISI																									
	SUR.																									
HOMOGENEOUS	BULK	SAMPLE NO.		11	12	13	14	15	16			17			18	19	20	21	22	23	24			25		
	VALIDATION	FOR	SAMPLING	Minimum 3	Samples		Minimum 2	Samples	Minimum 2	Samples					Minimum 2	Samples	Minimum 2	Samples	Minimum 2	Samples	Number of	Samples	Determined by	Inspector		
	LOCATION			Throughout First and Second Floor Exterior Walls			Room 3		Room 3						Room 11		House Windows		House Windows		Throughout Garage					
	MATERIAL			Vermiculite	Insulation - Wall		Sink Insulation –	White Single Basin	Vinyl Sheet Flooring	– Gray Slate with 9-	inch Square Pattern,	Mastic	(Over Wood	Flooring)	Ceiling Tile – 1-foot	by 1-toot, with Fissure Pattern	Window Glazing –	Wood Frame	Storm Windows –	Wood Frame	Drywall System -	wall				
	HA			J			D		ш						ц		Ι		J		К					
ONDITION RESULT	POOR ASBESTOS	%		DN	ND	ND	ND	ND	ND	Assumed			Assumed			Assumed										
-----------------	---------------	------------	----------	-------------------	---------------------	------------------	---------	---------------	-----------	----------------	------------------	-------	-----------------	------------------	-------	-----------------	------------------	-------								
FITY & C(FAIR									190	sq.ft.		800	sq.ft.		627	sq.ft.									
QUANT	GOOD																									
GORY	MISC.	F/NF								Х			Х			Х										
RA CATE	IST																									
AHE	SUR.																									
	BULK	SAMPLE NO.		26	27	28		29		n-friable in	ition, Not	bled	n-friable in	ition, Not	oled	n-friable in	ition, Not	חפות								
	VALIDATION	FOR	SAMPLING	Minimum 2	Samples	Number of	Samples	Determined by	Inspector	Category I No	Good Condi	Samp	Category I No	Good Condi	Samp	Category I No	Good Condi	rmeS								
HOMOGENEOUS	LOCATION			Garage		Room 3				Sun Porch			House Roof			Garage Roof										
	MATERIAL			Sink Insulation –	White, Double Basin	Drywall System -	Ceiling			Rolled Asphalt	Roofing System -	Black	Asphalt Shingle	Roofing System -	Black	Asphalt Shingle	Roofing System -	Rlack								
	HA			Г		z				ს			Η			М										

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





ATTACHMENT 2

➢ LABORATORY ANALYTICAL REPORT

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 Project: 30417 Lakesh

Customer Project:30417 Lakeshore Blvd; H21094-08Reference #:CBR23064621Date:

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 preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

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

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

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

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

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

Qualifications

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

CA Labs	CA Labs, L.L.C.	Ĩ	NIVI AP #200772-0	
Dedicated to	12232 Industriplex, Suite 32 Baton Rouge, I A 70809	Labs	TDSHS #300370	
Quality	Phone 225-751-5632		CDPHE #AL-18111	
•	Fax 225-751-5634	I	LELAP #03069	

Overview of Project Sample Material Containing Asbestos

Customer Pro	ject:	30417 Lakeshore Blvd; H2109	4-08	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 gypsum - gypsum bi - binder or - organic ma - matrix mi - mica ve - vermiculite ot - other pe - perlite qu - quartz fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

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.

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer	Info:	Attn: Joan Sablar			er Project:	CA Labs Project #:		
6105 Heis	/ironme ley Rd.	ental (Consultants	30417 L H21094	.akeshore Blvd; -08	CBR23064621		
Mentor, Ol	H 44060)				Date:	6/23/2023	
Phone #	440-3	357-126	60	Turnaro	ound Time: 5 days	Samples Received: Date Of Sampling:	6/19/2023	
Fax #	440-3	357-15	10			Purchase Order #:	2023-03	
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-tibrous type / percent	
			White Surfaced White Finishing				100% gu, gy, bi,	
01		01-1	Plaster	Ν	None Detected		ca	
		01-2	Tan Plaster	Y	None Detected		100% qu, ma, ca	
		01-3	White Drywall with Paper	Ν	None Detected	10% ce	90% qu, gy	
02		02-1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, bi, ca	
		02-2	Tan Plaster	Y	None Detected		100% qu, ma, ca	
						100/	000/	
		02-3	white Drywall with Paper	N	None Detected	10% Ce	90% qu, gy	
03		03-1	Green Surfaced White Finishing Plaster	Ν	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

ca - carbonate mi - mica gypsum - gypsum bi - binder ot -other or - organic ma - matrix

Sidney Pinterto

Sidney Pinkerton

Analyst

ve - vermiculite pe - perlite qu - quartz

identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willing

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

Favorable scenario for water separation on vermiculite for possible analysis by another method
<1% Result point counted positive

Anthophyllite in association with Fibrous Talc
Contamination suspected from other building materials

10. TEM analysis suggested

Page 3 of 11

Dedicated to Quality

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

Polarized Light Asbestiform Materials Characterization

Customer HzW Env 6105 Heisl Mentor, Of	Info: A fironment ey Rd. H 44060	Attn: tal C	Joan Sablar Consultants	Custor 30417 L H21094	ner Project: .akeshore Blvd; -08	CA Labs Project #: CBR23064621 Date:	6/23/2023
				Turnaro	ound Time: 5 days	Samples Received:	6/19/2023
Phone #	440-357	-126 	0			Date Of Sampling:	0000.00
Fax #	440-357	-151	Analysts Physical Description of	Homo	Achastas type /	Purchase Order #:	2023-03
	ment	#	Subsample	geneo us (Y/N)	calibrated visual estimate percent	type / percent	/ percent
	0)3-2	Tan Plaster	Y	None Detected		100% qu, ma, ca
	C)3-3	White Drywall with Paper	Ν	None Detected	10% ce	90% qu, gy
04	C	04-1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, bi, ca
	C)4-2	Tan Plaster	Ŷ	None Detected		100% qu, ma, ca
	C)4-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
05	C)5-1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, gy, bi, ca
	6)5-2	Tan Plaster	Y	None Detected		100% qu, ma, ca

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

Polarized Light Asbestiform Materials Characterization

Customer HzW Env	· Into: / ironm e	Attn: Attn:	Joan Sablar Consultants	Custor 30417 L	ter Project: .akeshore Blvd;	CA Labs Project #: CBR23064621	
6105 Heis	ley Rd.			H21094	-08		
Mentor, Ol	H 44060					Date:	6/23/2023
				Turnaro	ound Time: 5 days	Samples Received:	6/19/2023
Phone #	440-3	857-126	50			Date Of Sampling:	
Fax #	440-3	857-151	10	Purchase Order #:	2023-03		
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
		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	Ŷ	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

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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Contamination suspected from other building materials

10. TEM analysis suggested

Page 5 of 11

Dedicated to Quality

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

Polarized Light Asbestiform Materials Characterization

Customer	Info:	o: Attn: Joan Sablar			er Project:	CA Labs Project #:		
6105 Heisl	lev Rd.	entai C	Jonsultants	H21094	-08	UDR23004021		
Mentor, Ol	H 44060					Date:	6/23/2023	
				Turnaro	und Time: 5 days	Samples Received: Date Of Sampling:	6/19/2023	
Phone #	440-3	857-126	60					
Fax #	440-3	857-15 ⁻	10			Purchase Order #:	2023-03	
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	
			Gray Surfaced White Finishing				100% qu, gy, bi,	
09		09-1	Plaster	Ν	None Detected		са	
		09-2	Tan Plaster	Y	None Detected		100% qu, ma, ca	
			Brown Surfaced White				100% qu, gy, bi,	
10		10-1	Finishing Plaster	Ν	None Detected		са	
		10-2	Tan Plaster	Y	None Detected		100% qu, ma, ca	
	0.10			V	0% Tromolita		000/	
	8,10	11-1	Gold Vermiculite Insulation	Ŷ	2% iremonte		98% ve	
12	8,10	12-1	Gold Vermiculite Insulation	Ŷ	2% Tremolite		98% ve	
13	8,10	13-1	Gold Vermiculite Insulation	Ŷ	2% Tremolite		98% ve	

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

Polarized Light Asbestiform Materials Characterization

Customer	Info: A	Attn:	Joan Sablar	Custom	er Project:	CA Labs Project #:	
HzW Env	rironment	tal C	consultants	30417 L	akeshore Blvd;	CBR23064621	
6105 Heisl	ey Rd.			H21094	-08		
Mentor, Ol	H 44060					Date:	6/23/2023
				Turnarc	ound Time: 5 days	Samples Received: Date Of Sampling:	6/19/2023
Phone #	440-357	-126	0				
Fax #	440-357	-151	0			Purchase Order #:	2023-03
Sample #	Com L ment	ayer #	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
14	1	4-1	Tan Sealant	Ŷ	None Detected	5% се	95% qu, ma, bi, ca
15	1	5-1	White Sealant	Y	None Detected	5% ce	95% qu, ma, bi, ca
16	1	6-1	Gray Linoleum	Y	None Detected	20% се	80% qu, ma
	1	6-2	White Mastic	Ŷ	None Detected		100% qu, bi
	1	6-3	Tan Linoleum	Y	None Detected	20% се	80% qu, ma
17	1	7-1	Gray Linoleum	Y	None Detected	20% се	80% qu, ma
	1	7-2	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) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

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Favorable scenario for water separation on vermiculite for possible analysis by another method
<1% Result point counted positive

10. TEM analysis suggested

Anthophyllite in association with Fibrous Talc
Contamination suspected from other building materials

Page 7 of 11

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer Info:		Attn:	Joan Sablar	Custom	er Project:	CA Labs Project #:	
HzW Env 6105 Heisl	rironme lev Rd.	ental C	Consultants	30417 L H21094	akeshore Blvd; -08	CBR23064621	
Mentor, Ol	⊣ 44060					Date:	6/23/2023
				Turnaro	und Time: 5 days	Samples Received:	6/19/2023
Phone #	440-3	857-126	60			Date Of Sampling:	
Fax #	440-3	857-151	10			Purchase Order #:	2023-03
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
		17-3	Tan Linoleum	Ŷ	None Detected	20% ce	80% qu, ma
		17-4	White Mastic	Y	None Detected		100% qu, bi
18		18-1	Brown Ceiling Tile	Ŷ	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	Ŷ	None Detected		100% qu, ma, ca
21		21-1	Tan Sealant	Ŷ	None Detected		100% qu, ma, ca
22		22-1	Tan Sealant	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

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

Polarized Light Asbestiform Materials Characterization

Customer HzW Envi	Info: <i>ronme</i>	Attn: Attn: Attn:	Joan Sablar Consultants	30417 L	akeshore Blvd;	CA Labs Project #: CBR23064621	
Mentor OH	ey Ka. 1 44060			1121034	-00	Data	6/22/2022
	1 0 0 0			Turnaro	und Time: 5 days	Samples Received:	6/19/2023
Phone #	440-3	57-126	60	Turnarc	und mile. 5 days		0/10/2020
Fax #	440-3	57-151	0			Purchase Order #	2023-03
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
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	Ŷ	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	Ŷ	None Detected		100% qu, pe, ca
		25-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

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Customer HzW Envi 6105 Heisle	l nfo : <i>ronme</i> ey Rd.	Attn: Attn: Attn: Attn: Attn:	Joan Sablar Consultants	Custom 30417 L H21094	ler Project: .akeshore Blvd; -08	CA Labs Project #: CBR23064621		
Mentor, OH	44060					Date:	6/23/2023	
Phone #	440-3	57-126	60	Turnarc	ound Time: 5 days	Samples Received: Date Of Sampling:	6/19/2023	
Fax #	440-3	57-151	10			Purchase Order #:	2023-03	
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	
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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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. Laver not analyzed - attached to previous positive laver and contamination is suspected

5. Not enough sample to analyze

Anthophyllite in association with Fibrous Talc
Contamination suspected from other building materials

Favorable scenario for water separation on vermiculite for possible analysis by another method
<1% Result point counted positive

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

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

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

Analysis and Method

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

Qualifications

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

Customer Info:Attn: Joan SablarHzW Environmental Consultants6105 Heisley Rd.			Customer Project: 30417 Lakeshore Blvd; H21094-08	CA Labs Project #: CBR23064621		
Mentor, Ol	H 44060				Date:	6/23/2023
				Turnaround Time: 5 days	Samples Received:	6/19/2023
Phone #	440-3	357-1260			Date Of Sampling:	
Fax #	440-3	357-1510			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	Ŷ	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:

Chris Will

Laboratory Director Chris Williams

Long A	nterto

Sidney Pinkerton Analyst

Senior Analyst Alicia Stretz

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

Chain of Custody

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12232 Industriplex Suite 32 Baton Rouge, LA 70809 Phone: 225-751-5632 Fax: 225-751-5634 After hours Mobile: 225-993-3471

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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



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	Examples include, but are	Examples of miscellaneous
fireproofing and acoustical	not limited to pipe lagging,	friable materials include,
plaster.	pipe wrap, block	but are not limited to
	insulation, batt insulation	ceiling tile, drywall and
	and mudded fitting	joint compound.
	insulation.	
		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 <u>Surfacing Materials</u>, 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	Criteria
Category	
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 products. Examples of Category II Nonfriable ACMs consist of asbestos-containing products. Examples of Category II Nonfriable ACMs consist of 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)

an 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

11 A		HOMOGENEOUS			AHEF	A CATEG	ORY	QUANT	TTY & CON	NDITION	RESULT
ЧЧ	MATERIAL	LOCATION	VALIDATION	BULK	SUR.	TSI	MISC.	GOOD	FAIR	POOR	ASBESTOS
			FOR	SAMPLE NO.			F/NF				%
			SAMPLING								
AI	Drywall System – Ceiling and Wall	Front Room, Den, Dining Room, Kitchen, Bathroom	Number of Samples Determined	10							QN QN
		1, Bedrooms 1 and 2 and Hallway 3	by Inspector	02							QN QN
				03							DN
											a a
B	Skim Coat – Ceiling, Blotch Bottorn	Den	Minimum 3	04							ND
	Over HA-A)		oampico	05							ND
				06							ND
C	Skim Coat – Ceiling and Wall, Smear	Dining Room and Recreation Room,	Minimum 3 Samples	07							UN UN
H)	Pattern (Over HAS-A and H)	Bathroom 2 and Room 2 (c)		08							DN
		Bedroom 3 (c&w)		60							UN UN
н н н н н н н н н н н н н н н н н н н	Vinyl Sheet Flooring - White with Blue Diamonds,	Bathroom 1	Minimum 2 Samples	10							QN
	Mastic (Over Wood			11							QN QN

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

RESULT	ASBESTOS	%		ΩN	ND	ND	ND	2.00	NA	NA	ND	ND	ND	ND	ND	ND	ŊŊ	ND	QN	QN QN
NOITION	POOR							316 en ft	٦ī٠ĥe											
TTY & CON	FAIR																			
QUANT	GOOD																			
GRY	MISC.	F/NF						Х												
RA CATEG	IST																			
AHEI	SUR.																			
	BULK	SAMPLE NO.		12		13		14	15	16	17			18		19		20		21
	VALIDATION	FOR	SAMPLING	Number of	Samples	Determined	by Inspector	Minimum 3 Samulas	oampico		Number of	Samples	Determined	by Inspector						
HOMOGENEOUS	LOCATION			Hallway 1 (c&w)	Hallway 2 (c)			Utility Room			Recreation Room,	Bathroom 2,	Bedroom 3, Rooms	1, 2 and Stairwell 1						
	MATERIAL			Drywall System –	Ceiling and Wall,	Unfinished		Skim Coat – Ceiling	and wan, wough Blotch Pattern	(Over HA-A)	Drywall System –	Ceiling and Wall								
	HA			ц				Ŀ			Н									

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

RESULT	ASBESTOS	%		ND	UN UN	UN UN	20		NA		ND	ND	Ę	ND	ND	Assumed				Assumed	
IDITION	POOR																				
rity & con	FAIR						21	sq.ft.	Γ							802 sn ft				1,300	sq.ft.
QUANT	GOOD																				
GRY	MISC.	F/NF					X									Х				Х	
RA CATEC	ISI																				
AHE	SUR.																				
	BULK	SAMPLE NO.		22	23	24	25		26		27	28	00	67	30	n-friable in tion Not	led.			n-friable in	tion, Not.
	VALIDATION	FOR	SAMPLING	Minimum 3 Samples			Minimum 2	Samples			Minimum 2	Samples	C minimin D	2 MINIMIN 2 Selames	author	Category I No	Samp			Category I No	Good Condi Samr
HOMOGENEOUS	LOCATION			Bathroom 2 (w) Stairwell 1 (c)	Room 1 and Closet 1 (c&W)		Closet 1				Garage Roof		Cturcture IAVindenze	Suructure withdows		Dining Room, Kitchen Bathroom	2, Room 2, and	Bedroom 3		House Roof	
	MATERIAL			Skim Coat – Ceiling and Wall, Rough	Texture (Over HA-H)		Vinyl Sheet Flooring	– Yellow Brick Pattern,	Mastic	(Over Concrete Flooring)	Rolled Asphalt	Rooting System - Black	11/1indom Cloring	- VIIIUW الالكان WIIUUW - VVIIIUW - VVIIUW		Floor Tile – 12-inch hv 12-inch	Mastic	(3-types, Over Wood	Flooring)	Asphalt Shingle	Roofing System - Brown
	HA			Ι			J				К		J.A.	Z		-D1- הת	2			J	

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

PROJECT 4968 Greenard Rd.	mala
PAGE NO	
FIELD REPRESENTATIVE	DATE DE CUIL

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





w



ATTACHMENT 2

➢ LABORATORY ANALYTICAL REPORT

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 CBR23064109 Reference #:

6/12/2023 Date:

Analysis and Method

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

Discussion

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

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

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

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

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

Qualifications

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

CA Labs	CA Labs, L.L.C. 12232 Industriplex, Suite 32	, ,	NVLAP #200772-0 TDSHS #300370	
Dedicated to	Balon Rouge, LA 70809 Phone 225-751-5632	Labs	CDPHE #AL-18111	
Quanty	Fax 225-751-5634		LELAP #03069	

Overview of Project Sample Material Containing Asbestos

Customer Project		4968 Orchard Rd., Mentor; H210	94-08	CA Labs Project #:	CBR23064109
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Materi	cted Building al Types
14	14-1	Tan Surfaced White Compound	3% Chrysotile	Tan Surfa Tan Linol	aced White Compound Jeum
25	25-1	Tan Linoleum	20% Chrvsotile		

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

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

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.

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Joan Sablar HzW Environmental Consultants 6105 Heisley Rd.				Customer Project: 4968 Orchard Rd., Mentor; H21094-08		CA Labs Project #: CBR23064109	
Mentor, Ol	⊣ 44060)				Date:	6/12/2023
Phone #	440-3	440-357-1260			ound Time: 5 day	Samples Received: Date Of Sampling:	6/6/2023
Sample #	Com ment	257-151 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	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
			1				
		01-2	White Drywall with Paper	Ν	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.

fg - fiberglass

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

ve - vermiculite ot -other pe - perlite qu - quartz

mi - mica

David Darby

Analyst

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. Laver not analyzed - attached to previous positive laver and contamination is suspected 5. Not enough sample to analyze

Alicia Stretz

Anthophyllite in association with Fibrous Talc
Contamination suspected from other building materials

Senior Analyst

Approved Signatories:

Chris Willi

Laboratory Director

Chris Williams

Favorable scenario for water separation on vermiculite for possible analysis by another method
<1% Result point counted positive

ce - cellulose

ka - kaolin (clay)

pa - palygorskite (clay)

br - brucite
Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Joan Sablar		Custom	er Project:	CA Labs Project #:				
HzW Env 6105 Heisl	/ironme ley Rd.	ental C	Consultants	4968 Or H21094	chard Rd., Mentor; -08	CBR23064109		
Mentor, Ol	H 44060)				Date:	6/12/2023	
Phone #	440-3	357-126	60	Turnaround Time: 5 day		Samples Received: Date Of Sampling:	6/6/2023	
Fax #	440-3	857-151	10			Purchase Order #:	2023-03	
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	
04		04-1	White Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca	
		0.1.1						
05		05-1	White Textured Surfacing	Y	None Detected		100% qu, mi, bi, ca	
							100% au mi hi	
06		06-1	White Textured Surfacing	Y	None Detected		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	
			Gray Surfaced White	•	N		100% qu, mi, bi,	
09		09-1	Compouna	N	None Detected		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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ta - talc

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ot -other pe - perlite qu - quartz

mi - mica

ve - vermiculite

David Darby

Analyst

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3. Actinolite in association with Vermiculite

4. Laver not analyzed - attached to previous positive laver and contamination is suspected 5. Not enough sample to analyze

pa - palygorskite (clay) sy - synthetic

Approved Signatories:

Chris Willi

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials

ce - cellulose

ka - kaolin (clay)

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 <1% Result point counted positive

Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Joan Sablar		Custom	er Project:	CA Labs Project #:			
6105 Heisl	ironme ey Rd.	ental C	Consultants	4968 Or H21094	chard Rd., Mentor; -08	CBR23064109	
Mentor, OH	44060					Date:	6/12/2023
Phone #	440-3	857-126	50	Turnaround Time: 5 day		Samples Received:	6/6/2023
Fax #	440-3	357-151	10			Purchase Order #:	2023-03
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
		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

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

Polarized Light Asbestiform Materials Characterization

Customer HzW Envi 6105 Heisle	Customer Info: Attn: Joan Sablar HzW Environmental Consultants 6105 Heisley Rd.		Custom 4968 Or H21094	er Project: chard Rd., Mentor; -08	CA Labs Project #: CBR23064109		
Mentor, OH	44060			_		Date:	6/12/2023
Phone # 440-357-1260 Fax # 440-357-1510			Turnaround Time: 5 day		Samples Received: Date Of Sampling: Purchase Order #:	6/6/2023	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		13-2	White Drywall with Paper	Ν	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	Ν	Positive Stop		
16		16-1	Tan Surfaced White Compound	Ν	Positive Stop		
17		17-1	White Compound	Y	None Detected		100% qu, mi ,ca
		17-2	White Compound Beneath Tape	Ŷ	None Detected		100% qu, mi ,ca
		17-3	White Drywall with Paper	Ν	None Detected	10% ce	90% qu, gy

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

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Dedicated to Quality

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

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

Polarized Light Asbestiform Materials Characterization

Customer HzW Env 6105 Heisl	Customer Info: Attn: Joan Sablar HzW Environmental Consultants 5105 Heisley Rd. Apptor OH 44060		Custom 4968 Or H21094	er Project: chard Rd., Mentor; -08	CA Labs Project #: CBR23064109		
Mentor, Ol	H 44060					Date:	6/12/2023
Phone # Fax #	Phone # 440-357-1260 Fax # 440-357-1510		Turnaround Time: 5 day		Samples Received: Date Of Sampling: Purchase Order #:	6/6/2023	
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
18		18-1	White Compound	Ŷ	None Detected		100% qu, mi, ca
		18-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
19		19-1	Brown Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		19-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
20		20-1	White Compound	Y	None Detected		100% qu, mi, ca
		20-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
21		21-1	Blue 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) 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.

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

fg - fiberglass

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica

ot -other

pe - perlite

qu - quartz

ve - vermiculite

David Darby

Analyst

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. Laver not analyzed - attached to previous positive laver and contamination is suspected 5. Not enough sample to analyze

Approved Signatories:

Chris Willi

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials

ce - cellulose

ka - kaolin (clay)

pa - palygorskite (clay)

br - brucite

- Favorable scenario for water separation on vermiculite for possible analysis by another method
 <1% Result point counted positive

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

Polarized Light Asbestiform Materials Characterization

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Mentor, OH	44060					Date:	6/12/2023
				Turnaround Time: 5 day		Samples Received:	6/6/2023
Phone #	440-3	857-126	60			Date Of Sampling:	
Fax #	440-3	857-151	0			Purchase Order #:	2023-03
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
		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

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.

fg - fiberglass

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica

ot -other

pe - perlite

qu - quartz

ve - vermiculite

David Darby

Analyst

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Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Chris Willi

Approved Signatories:

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 Contamination suspected from other building materials

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pa - palygorskite (clay)

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 <1% Result point counted positive

Dedicated to Quality

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

Polarized Light Asbestiform Materials Characterization

Customer Info: A HzW Environment 6105 Heisley Rd.		Attn: ental C	Attn: Joan Sablar ntal Consultants		er Project: chard Rd., Mentor; -08	CA Labs Project #: CBR23064109		
Mentor, OH	44060					Date:	6/12/2023	
Phone # 440-357-1260		Turnaround Time: 5 day		Samples Received: Date Of Sampling: Burchase Order #:	6/6/2023			
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	Ŷ	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	Ŷ	None Detected	70% fg	30% qu, ma, bi	
29		29-1	Gray Sealant	Ŷ	None Detected		100% qu, ma, ca	
30		30-1	Gray Sealant	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 gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

David Darby

Analyst

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Favorable scenario for water separation on vermiculite for possible analysis by another method
 <1% Result point counted positive

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials

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

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

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

Analysis and Method

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

Qualifications

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

Customer I HzW Envi 6105 Heisle	l nfo : <i>ronme</i> ey Rd.	Attn: Joan Sablar Attn: Consultants		Customer Project: 4968 Orchard Rd., Mentor; H21094-08	CA Labs Project #: CBR23064109	
Mentor, OH	44060	1			Date:	6/12/2023
Phone #	440-3	357-1260		Turnaround Time: 5 day	Samples Received: Date Of Sampling:	6/6/2023
Fax #	440-3	357-1510			Purchase Order #:	2023-03
Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type		

Tan Surfaced White1414-1CompoundN**2.00% 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:

Chris Ville

David Darby Analyst

Senior Analyst Alicia Stretz Laboratory Director Chris Williams



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

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

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Page 1

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Signature / Date / Time

(+) Point count 3% or less Compasite / P.C. when Indicated



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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 2	3064109
Client Address:	[Billing Address:	
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12232 Industriplex Suite 32 Baton Rouge, LA 70809 Phone: 225-751-5632 Fax: 225-751-5634 After hours Mobile: 225-993-3471

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Custody Information: Samples relinquished:

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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 Sates 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.**

Associate Hazard Evaluation Specialist

John Zampino Senior Environmental Program Manager

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

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1.0 INTRODUCTION	1
2.0 ASBESTOS SURVEY	1
2.1 Asbestos Survey Analytical Results	1
3.0 CONCLUSION AND RECOMMENDATIONS	2
3.1 Asbestos Survey	2
4.0 LIMITATIONS	

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





Appendix B

NESHAP Asbestos Survey Summary Table



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

Page 1 of 2	Condition	Good	Good	Good	Good	Good	Good	Good	Good		Good	Good		Good	Good	Good	Good	Good	Good	Good
	Functional Area(s)	Throughout 1 ^{se} floor and Basement laundry room area	Kitchen	Kitchen, Garage, Restroom 3, Laundry	Kitchen	Living room	1ª floor closets	Restroom 1	Restroom 2		Laundry room, Restroom 3	Pantry, Garage		Basement main room	Basement main room	Exterior	Exterior	House Roof	Exterior	Exterior
	Approximate Quantity [square feet (s.f.)] [linear feet (I.f.)]	12,000 s.f.	250 s.f.	75 I.f.	1 Each	30 s.f.	75 s.f.	60 s.f.	20 s.f.		300 s.f.	60 s.f.		1,200 s.f.	1,200 s.f.	175 I.f.	90 I.f.	5,000 s.f.	20 I.f.	20 I.f.
	Friability	II-3N	NF-I	NF-II	II-3N	NF-I	F (backing) NF-II	NF-I	F (backing)	NF-II	NF-I	NF-I		NF-I	NF-II	NF-II	II-3N	NF-I	NF-II	NF-II
	Results	N	N	N	Z	N	d Z	z	٩.	Z	Z	4	Р	۹ م	z	z	Ν	N	N	Z
	HSA Material Description	Drywall with associated joint compound	Beige diamond square pattern linoleum flooring with associated adhesive	4" tan cove base with associated adhesive	White sink undercoat	Multi colors square and rectangle stone flooring grout	Linoleum with gold speckles flooring associated adhesive	8"x 8" beige ceramic floor tile grout	Lt. gray 6"x 6" square pattern linoleum flooring	associated adhesive	18"x 18" rock pattern floor tile with associated adhesive	12"x 12" square & diamond pattern floor tile	associated mastic	12"X 12" tan cracked pattern floor tile associated mastic	4"x 4" ceiling board	Window frame caulk	Door frame caulk	House roof shingles with associated black paper	Gray building caulk	White building caulk
	HSA No.	L	2	3	4	5	9	L	8		6	10		11	12	13	14	15	16	17

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

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

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

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

						Page 2 of 2
HSA No.	HSA Material Description	Results	Friability	Approximate Ouantity [square feet (s.f.)] [linear feet (I.f.)]	Functional Area(s)	Condition
18	Black roof flashing caulk	Ч	NF-II	J.101.	House Roof	Good
19	Shed roof shingles	Ν	NF-I	200 s.f.	Shed roof	Good
20	Mirror wall tile adhesive	А	NF-II	50 s.f.	Living room	Good
21	4"x 4" ceramic wall tile grout	А	NF-II	110 s.f.	Restroom 1, Restroom 2	Good

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

Good

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





Attention: Robert Serlin

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:

 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

CT Consultants Inc

1915 North 12th Street Toledo, OH 43604

			Non-Asbe	estos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
241185-01A-Drywall	Garage - Drywall with Joint Compound	Brown/White Fibrous Heterogeneous	10% Cellulose	80% Gypsum 10% Non-fibrous (Other)	None Detected
241185-01A-Joint Compound	Garage - Drywall with Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
162406068-0001A					
241185-01B-Drywall	Kitchen - Drywall with Joint Compound	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
241195 01P loint	Kitchon Drawoll with	\//bito		100% Non fibrous (Othor)	None Detected
Compound	Joint Compound	Non-Fibrous Homogeneous			None Delected
162406068-0002A	Living Deere Drevell	\A/l=:+=		05% Онтенно	Name Data stad
241185-01C-Drywall	Living Room - Drywall with Joint Compound	vvnite Non-Fibrous Homogeneous	5% Cellulose	85% Gypsum 10% Non-fibrous (Other)	None Detected
044405 040 laint	Living Doom Dravell	W/bite		100% Non fibrous (Other)	Nana Datastad
Compound	with Joint Compound	Non-Fibrous Homogeneous		100% Non-librous (Other)	None Detected
162406068-0003A					
241185-01D-Drywall	Bedroom 1 - Drywall with Joint Compound	White Non-Fibrous Homogeneous	5% Cellulose	85% Gypsum 10% Non-fibrous (Other)	None Detected
241185-01D-Joint Compound	Bedroom 1 - Drywall with Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
162406068-0004A					
241185-01E-Drywall	Bedroom 2 - Drywall with Joint Compound	White Non-Fibrous Homogeneous	5% Cellulose	85% Gypsum 10% Non-fibrous (Other)	None Detected
241185-01E-Joint	Bedroom 2 - Drywall	White		100% Non-fibrous (Other)	None Detected
Compound	with Joint Compound	Non-Fibrous Homogeneous			
162406068-0005A					
241185-01F-Drywall	Bedroom 1 - Drywall with Joint Compound	White Non-Fibrous		95% Gypsum 5% Non-fibrous (Other)	None Detected
		Tiomogeneous		1001 0	
Compound	with Joint Compound	vvnite Non-Fibrous Homogeneous		90% Non-fibrous (Other)	None Detected
162406068-0006A		5			
241185-01G-Drywall	Room 2 - Drywall with Joint Compound	White Non-Fibrous		95% Gypsum 5% Non-fibrous (Other)	None Detected
162406068-0007		Homogeneous			
241185-01G-Joint Compound	Room 2 - Drywall with Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
162406068-0007A					



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



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 162406068

 Customer ID:
 TTL63

 Customer PO:
 241185

 Project ID:
 T

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
241185-06B-Adhesive	Hallway Closet - Linoleum Flooring with Gold Specks and Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-07A 162406068-0018	Restroom 1 - 8"x8" Beige Ceramic Floor Tile Grout	Tan Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
241185-07B	Restroom 1 - 8"x8" Beige Ceramic Floor Tile Grout	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
241185-08A-Linoleum	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	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-08A-Linoleum 162406068-0020B	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	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-08B-Linoleum	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	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-08B-Linoleum	Restroom 2 - Light Gray 6"x6" Square Pattern Linoleum with Adhesive				Positive Stop (Not Analyzed)
241185-08B-Adhesive	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	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	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	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	Basement - Laundry Room - 18"x18" Rock Pattern Floor Tile with Adhesive	Tan/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected



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			Non-Asbe	estos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
241185-10A-Floor Tile	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	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	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	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 Adhesiye	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
241185-10B-Floor Tile	Basement - Pantry - 12"x12" Square/Diamond Pattern Floor Tile with Adhesiye				Positive Stop (Not Analyzed)
241185-10B-Adhesive	Basement - Pantry - 12"x12" Square/Diamond Pattern Floor Tile with Adhesive				Positive Stop (Not Analyzed)
241185-11A-Floor Tile	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	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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 Project ID:
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			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
241185-13A	Exterior - Window Frame Caulk	Tan/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
241185-13B	Exterior - Window	Gray/White		100% Non-fibrous (Other)	None Detected
162406068-0031	Frame Caulk	Homogeneous			
241185-14A	Exterior - Door Frame Caulk	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
162406068-0032		Homogeneous			
241185-14B	Exterior - Door Frame Caulk	Gray/Tan/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
162406068-0033		Homogeneous			
241185-15A-Shingle	Roof - Roof Shingles with Black Paper	Black Fibrous	20% Glass	80% Non-fibrous (Other)	None Detected
162406068-0034		Heterogeneous			
241185-15A-Paper	Roof - Roof Shingles with Black Paper	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
162406068-0034A		Homogeneous			
241185-15B-Shingle	Roof - Roof Shingles with Black Paper	Black Fibrous	20% Glass	80% Non-fibrous (Other)	None Detected
162406068-0035		Heterogeneous			
241185-15B-Paper	Roof - Roof Shingles with Black Paper	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
162406068-0035A		Homogeneous			
241185-16A	Exterior - Gray Building Caulk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
162406068-0036		Homogeneous			
241185-16B	Exterior - Gray Building Caulk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
162406068-0037		Homogeneous			
241185-17A	Exterior - White Building Caulk	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
162406068-0038		Homogeneous			
241185-17B	Exterior - White Building Caulk	White/Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
044405 404		Divide			10/ 01
241185-18A	Roof - Black Roof Caulk	Black Non-Fibrous		96% Non-Tibrous (Other)	4% Chrysotile
044405 400		Homogeneous			
241185-18B	Roof - Black Roof Caulk				Positive Stop (Not Analyzed)
162406068-0041		0 (5) 1	45% 01		
241185-19A	Shed Roof - Shed Roof Shingle	Gray/Black Fibrous	15% Glass	85% Non-fibrous (Other)	None Detected
		Receiverneous			
241185-19B	Sned Roof - Shed Roof Shingle	Black Fibrous	20% Glass	80% Non-fibrous (Other)	None Detected
102400008-0043		nomogeneous			



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Analyst(s)

Hannah Morgan (27) Ross Matlock (40)

Asbestos Laboratory Manager or Other Approved Signatory

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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

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Country: USA Country: USA n, hsingh@ctconsultants.com Project Infor Ventor OH /241185 Sampled By Signature: MAA Turn-Around-T ur as 22 Hour as 48 Ha rojects aroler turnarund times 6 Hours or Less. *32 Ho Test Sele Imit) i) i) i) Samp GANLAGE VATZ/-LAN LZ VAP G /Cool- BED/2 Sord /	Billing ID: Company Name: CT Consultants, In Billing Contact: Cindy Smith Street Address: 1915 N 12th Street USA Pic City, State, Zip. Toledo, OH 43604 Phone: 419-214-5092 Email(s) for Invoice: csmith@ctconsultants Project Information Purchase 1185 Purchase Off Email(s) for Invoice: csmith@ctconsultants Project Information Commercial (Date Sampled'3/2) Mathematical Construction Commercial (Date Sampled'3/2) Mathematical Construction Commercial (Date Sampled'3/2) Mathematical Construction State of Connecticut (Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Mathematical Construction State of Connecticut (Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Test Selection TEM EPA NOB NYS NOB 198.4 (Non-Frid TEM EPA 600/R-93/116 w Other Tests (please I Image: Construction D/2 Image: Construction D/2 Image: Construction <td< th=""><th>PHONE: (317) 803-2997 MAIL: Indianapolistab@emsl.com s, Inc. reet 304 Country: USA iultants.com hase 241185 citut (CT) must select project location: cial (Taxable) Residential (Non-Taxable) 3/21/24 No. of Samples in Shipment 4.3 our aby 11.30an. -Bulk n-Friable - NY) 116 w Milling Prep (0.1%) Ilease specify)</th></td<>	PHONE: (317) 803-2997 MAIL: Indianapolistab@emsl.com s, Inc. reet 304 Country: USA iultants.com hase 241185 citut (CT) must select project location: cial (Taxable) Residential (Non-Taxable) 3/21/24 No. of Samples in Shipment 4.3 our aby 11.30an. -Bulk n-Friable - NY) 116 w Milling Prep (0.1%) Ilease specify)
Country: USA n, hsingh@ctconsultants.com Project Infor Ventor OH /241185 Sampled By Signature: Mad Tufm-Around-T ur 32 Hour 48 Ho rojecta and/or turnaround times 6 Hours or Less. *32 Ho Test Sele Imit) Sampled By Signature: Mad Tufm-Around-T Ur agent and a second Sampled By Signature: Mad Tufm-Around-T Sampled By Signature: Mad Tufm-Around-T Sampled By Signature: Mad Sampled By	Billing ID: Company Name: CT Consultants, In Billing Contact: Cindy Smith Street Address: 1915 N 12th Street USA Phone: 419-214-5092 Email(s) for Invoice: csmith@ctconsulta Project Information 1185 Purchase Order: Connectical (Commercial (C	s, Inc. reet 304 Country: USA iultants.com hase 241185 cticut (CT) must select project location: ctial (Taxable) Residential (Non-Taxable) 3/21/24 No. of Samples in Shipment 4.3 lour 1 Week 2 Week d by 11.30am. - Bulk n-Friable - NY) 116 w Milling Prep (0.1%) llease specify)
Country: USA n, hsingh@ctconsultants.com Project Infor Ventor OH /241185 Sampled By Signature: M Turm-Around-T $Turm-Around-Tur a 32 Hour a 48 Ho rojects ard/or turnaround times 6 Hours or Less. *32 Ho Test Sele Imit)))) Sampled By Signature: MSampled By Signature: MTurm-Around-T Turm-Around-T Turm-Around-TTurm-Around-T Turm-Around-T Turm-Around-TTurm-Around-T Turm-Around-TTurm-Aro$	Company Name: CT Consultants, In Billing Contact: Cindy Smith Street Address: 1915 N 12th Street USA Billing Contact: Cindy Smith Street Address: 1915 N 12th Street City, State, Zip. Toledo, OH 43604 Phone: 419-214-5092 Email(s) for Invoice: csmith@ctconsulta Project Information 1185 Purchase Order: US State where samples collected OH State of Connecticut Commercial (Commercial (Commer	s, Inc. reet 304 Country: USA iultants.com hase 241185 cticut (CT) must select project location: ctial (Taxable) Residential (Non-Taxable) 3/21/24 No. of Samples in Shipment 4.3 our 1 Week 2 Week d by 11.30am. -Bulk n-Friable - NY) 116 w Milling Prep (0.1%) llease specify)
Country: USA n, hsingh@ctconsultants.com Project Infor Ventor OH /241185 Sampled By Signature: U Sampled By Signature: U Turn-Around-T U ur 32 Hour 48 Hours or Less. *32 Hour rojects and/or turnaround times 6 Hours or Less. *32 Hour Test Sele Imith Samp GANLAGE VATZI-SA LI VAP G /Cool BED/2 50 M /	Billing Contact: Cindy Smith Street Address: 1915 N 12th Street USA Phone: 419-214-5092 Email(s) for Invoice: csmith@ctconsulta Project Information 1185 US State where samples collected OH US State where samples collected OH Date Sampled'3/2 m-Around-Time (TAT) s or Less. '32 Hour TAT available for select tests only: samples must be submitted by 11 Test Selection <u>TEM - Buil</u> TEM EPA NOB NYS NOB 198.4 (Non-Frid TEM EPA 600/R-93/116 w <u>Other Tests (please</u> / / / Positive Stop - Clearly Identified Ho	reet S04 Country: USA iultants.com hase 241185 cticut (CT) must select project location: raia (Taxable) Residential (Non-Taxable) 3/21/24 No. of Samples in Shipment 4-3 iour 1 Week 2 Week a by 11.30am. - Bulk n-Friable - NY) 116 w Milling Prep (0.1%) llease specify)
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Additional Pages of the Chain of Custody are only recessary if needed for additional sample information Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Indianapolis, IN 46250

PHONE: (317) 803-2997 EMAIL: indianapolisiab@emsLcom

Sample Number	HA Number	Sample Location	Material Description
241175-038		KETZL-SQN	4" TAN COVE BASE WITH ADHESQUE
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ethod of Shipment:		Sample Condition Upon Receipt	_ <u>_</u>

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.)

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.

Page 2 of 3

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OrderID: 162406068



Additional Pages of the Chain of Custody are only recessary if needed for additional sample information Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Asbestos Bulk Building Materials - Chain of Custody EMSL Order Number / Lab Use Only EMSL Order Number / Lab Use Only EMSL Order Dr. 6340 Castle Place Dr. Indianapolis, IN 46250

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

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EMSL	ANALY	TICAL	INC.
TESTING	ARE PRO	UCTRATE	AINONO

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Sample Number HA Number Material Description Sample Location 241185- 16A GRAY BURDANCO EXTER 2012 CAULU -163 11. { c 241185- 17A WHATE BURDAUG 4 CANUR -17B ۲ (-241185 - 18A BLACK NO: P CAULO ROOP -183 10 ιι 51460 SITED PODE SHArbut 1205A 241(85 - 19A -19B ç 60 l L ____ ____ ----

Method of Shipment:	Jul -		Sample Condition Upon Receipt:	
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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.)

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.

Appendix D

Asbestos Sample Location Maps






