



**TO:**  
**Paula Sue Copley**  
**3110 Overhills Rd**  
**Bunnlevel**  
**NC 28323**

**DATE:**  
3/7/2022

**APPLICATION ID:**  
APP-05552

**INSPECTION RECORD ID:**  
INSP-0005702

P.O. Box 110465  
Durham, NC 27709

[www.rebuild.nc.gov](http://www.rebuild.nc.gov)

833-ASK-RBNC

## ASBESTOS REPORT

Dear Paula Sue Copley:

Per the contract outlined by The North Carolina Office of Recovery and Resiliency (NCORR), HORNE performed a limited asbestos inspection for the residence located at 3080 Overhills Rd, Bunnlevel, NC 28323. The inspection was performed by Kevin Fowler (NC Asbestos Inspector #13299 on 2/14/2022) and limited to the accessible areas of the roof.

## METHODOLOGY

### Asbestos Containing Materials (ACM)

In order to complete the required ACM Survey, EI performed this survey in general accordance with 40 CFR 763 Subpart E. The survey and sampling methods used as part of this survey are described below.

### ACM Visual Survey Methodology

For the building structure a limited visual survey of building materials within the designated construction area was completed. The purpose of this was for the certified inspection staff to identify the locations of all suspected ACM. The inspector touched all suspected ACM to determine whether they are friable or non-friable materials. Based upon the AHERA regulations, friable materials can be determined as those materials, that when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes non-friable materials that have become damaged to a point where they may also meet this determination. This visual survey was also completed to identify all homogeneous areas of suspected ACM and to assess the physical condition of each of these materials.

A homogeneous area is defined as an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture. Once these homogeneous areas are established for the various inspected building, bulk samples were collected per the sampling methodology described below.

### ACM Sampling Methodology

All sampling methods were collected in general accordance with NESHAP regulations. Depending on the type of building materials, various sampling methodologies were employed and are described below.

### Surfacing Materials

Surfacing materials are defined as material that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on

surfaces for acoustical, fireproofing, or other purposes. All surfacing materials were collected with at least three (3) bulk samples by an accredited inspector in a statistically random manner that is representative of the previously identified homogeneous area.

#### *Miscellaneous Materials*

Miscellaneous materials are defined as building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or TSI. All miscellaneous materials were collected by an accredited inspector in a manner sufficient to determine whether material is ACM or not ACM. An accredited inspector collected bulk samples from each identified homogeneous area.

#### *Thermal System Insulation*

Thermal System Insulation (TSI) includes pipe insulation, boiler insulation, tank insulation, any insulation and other insulation needed for heating/cooling processes. At least three (3) samples of TSI were collected in a statistically random matter.

#### **EPA Method 600/R-93/116**

The analysis includes testing of bulk building materials for asbestos by performing a visual estimation using the EPA Method 600/R-93/116. This method is the most widely used method for estimating asbestos in bulk building materials and works well for most sample types. However, it might require a more detailed method like point counting for accurate estimation of asbestos in samples with low asbestos concentration. This method is also not applicable for samples containing large amounts of fine fibers below the resolution of the PLM (< 0.3 microns). The method separates the sample material into various layers based on their morphology and then detects for the presence of the different asbestos fibers in each of these layers. The report will express the percentage of the different asbestos fibers detected in each of the different layers based upon the visual estimation.

#### **ACM Analytical Methodology**

An appropriate number of samples, per the described methodology, were collected and submitted for analysis to Eurofins CEI, an NC NVLAP accredited laboratory. Samples were analyzed by the Environmental Protection Agency (EPA) 600/R-93/116 Method using Polarized Light Microscopy. Per the EPA if any homogenous material contains >1% asbestos by weight that material is considered asbestos containing and is therefore regulated. A positive stop protocol was also employed. This directive to the lab stops analysis of samples at the first positive analysis of a homogeneous material group, eliminating multiple analyses of the same material.

EPA allows the drywall system components (wallboard, tape and joint compound) to be composited for analysis. See 40 CFR Part 61 (FRL-4821-7) "Asbestos NESHAP Clarification Regarding Analysis of Multi-layered Systems" as published on page 542 of the Federal Register Vol. 59, No. 3 dated January 8th, 1994.

Occupational Safety and Health Administrations (OSHA) considers any percentage of asbestos fiber in building material as a hazard and the building owner must ensure demolition contractor adhere all OSHA regulations regarding building materials containing asbestos fiber.

## FINDINGS/RESULTS

Suspect asbestos-containing materials that were visible/accessible within the residence consisted of the following:

- **Roof Sealant**

Of the suspected asbestos containing materials collected, none were found by analytical analysis to be regulated asbestos materials (>1% by weight).

**OR**

Of the suspected asbestos containing materials collected, the following were found by analytical analysis to be regulated asbestos materials (>1% by weight). These materials are summarized below:

Material	Location	Condition	Approximate Quantity

**OR**

The following suspect asbestos-containing material was identified but not sampled due to accessibility and are presumed as asbestos-containing:

Material	Location	Condition	Approximate Quantity

## CONCLUSION/RECOMMENDATIONS

If the above identified materials containing >1% asbestos are to be disturbed the owner must then adhere to all local, state, and federal regulations regarding the removal and disposal of asbestos containing materials (National Emission Standards for Hazardous Air Pollutants, Section 40 CFR Part 61.150). Any additional suspect materials identified outside of this survey should be presumed positive for ACM until further testing is completed.

**OR**

Any additional suspect materials identified outside of this survey should be presumed positive for ACM until further testing is completed.

Enclosed, please find copies of all chains of custody, laboratory analytical data, and licensure. If you have any questions regarding this information, please feel free to contact me at [Landon.West@rebuild.nc.gov](mailto:Landon.West@rebuild.nc.gov) at your earliest convenience.

Sincerely,

Landon West  
Inspection Lead



**ReBuild NC Homeowner Recovery Program**

**Enclosed:**

- **Appendix A:** Chain of Custody & Laboratory Analytical Data
- **Appendix B:** Certifications & Licensure
- **Appendix C:** Photographs

## DEFINITIONS/ ACRONYMS

**ABS:** Asbestos Building Survey

**ACM:** Asbestos Containing Materials, or any material or product which contains more than one (1) percent asbestos

**AHERA:** Asbestos Hazard Emergency Response Act

**Asbestos:** The asbestiform varieties of: chrysotile (serpentine); crocidolite (riebeckite); amosite (cummingtonite grunerite); anthophyllite; tremolite; and actinolite.

**CFR:** Code of Federal Regulations

**EPA:** United States Environmental Protection Agency

**Friable Asbestos Material:** Any material containing more than one (1) percent asbestos as determined by Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than ten (10) percent as determined by a method other than point counting by polarized light microscopy (PLM), verify the asbestos content by point counting using PLM

**Homogenous Area:** An area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture

**HUD:** United States Department of Housing and Urban Development

**NCDEQ:** North Carolina Department of Environmental Quality **NCORR:** North Carolina Office of Recovery and Resiliency

**NESHAP:** National Emissions Standards for Hazardous Air Pollutants

**Non-friable Asbestos Containing Material:** Any material containing more than one (1) percent asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy, that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure

**OSHA:** Occupational Safety and Health Administration

**Presumed Asbestos Containing Material (PACM):** Thermal system insulation and surfacing material found in buildings. The designation of a material as "PACM" may be rebutted pursuant to paragraph (j)(8) of this section. (29 CFR 1910.1001(b))

**ReBuild NC:** North Carolina program for disaster recovery activities due to Hurricane Matthew and Hurricane Florence

## **Appendix A: Chain of Custody & Laboratory Analytical Data**

February 21, 2022

Horne LLP  
200 Park Offices Drive  
Durham, NC 27709

**CLIENT PROJECT:** APP-05552, Asbestos Roof Samples  
**CEI LAB CODE:** B223780

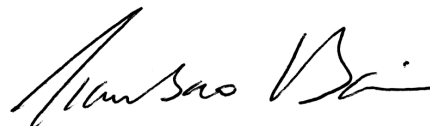
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on February 16, 2022. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH  
Laboratory Director



CEI

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# ASBESTOS ANALYTICAL REPORT

## By: Polarized Light Microscopy

Prepared for

**Horne LLP**

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CLIENT PROJECT: APP-05552, Asbestos Roof Samples

LAB CODE: B223780

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 02/21/22

TOTAL SAMPLES ANALYZED: 2

# SAMPLES >1% ASBESTOS:





CEI

# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** APP-05552, Asbestos Roof Samples

**LAB CODE:** B223780

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**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		B223780.1	White,Gray	Sealant	None Detected
001B	Layer 1	B223780.2	White,Gray	Sealant	None Detected
	Layer 2	B223780.2	Silver	Sealant	None Detected



CEI

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** Horne LLP  
200 Park Offices Drive  
Durham, NC 27709

**Lab Code:** B223780  
**Date Received:** 02-16-22  
**Date Analyzed:** 02-21-22  
**Date Reported:** 02-21-22

**Project:** APP-05552, Asbestos Roof Samples

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
<b>001A</b> B223780.1	Sealant	Heterogeneous White, Gray Non-fibrous Bound	100% <1%	Caulk Paint	None Detected
<b>001B</b> Layer 1 B223780.2	Sealant	Heterogeneous White, Gray Non-fibrous Bound	100% <1%	Caulk Paint	None Detected
Layer 2 B223780.2	Sealant	Heterogeneous Silver Non-fibrous Bound	100% <1%	Binder Paint	None Detected

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**LEGEND:** Non-Anth = Non-Asbestiform Anthophyllite  
Non-Trem = Non-Asbestiform Tremolite  
Calc Carb = Calcium Carbonate

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**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

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**REPORTING LIMIT:** <1% by visual estimation

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**REPORTING LIMIT FOR POINT COUNTS:** 0.25% by 400 Points or 0.1% by 1,000 Points

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**REGULATORY LIMIT:** >1% by weight

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Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

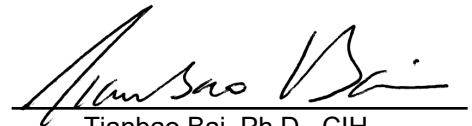
Information provided by customer includes customer sample ID and sample description.

**ANALYST:** \_\_\_\_\_



Kathryn Wescott

**APPROVED BY:** \_\_\_\_\_



Tianbao Bai, Ph.D., CIH  
Laboratory Director





CEI

# CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511  
 Tel: 866-481-1412; Fax: 919-481-1442

<b>LAB USE ONLY:</b>	
CEI Lab Code:	B223780
CEI Lab I.D. Range:	

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Kevin Fowler
Company: Horne LLP	Email / Tel: kevin.fowler@hornellp.com
Address: 1645 fawn lane, Creedmoor, nc 27522	Project Name: APP# 0552
	Project ID#: ASBESTOS ROOF SAMPLES
Email: kevin.fowler@hornellp.com	PO #:
Tel:919024818 Fax:	STATE SAMPLES COLLECTED IN:

**IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.**

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR*	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR (PCME)	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05 (2010)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-16			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM QUALITATIVE	IN-HOUSE METHOD		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*Blanks should be taken from the same sample lot as field samples.

REMARKS / SPECIAL INSTRUCTIONS:		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
Kevin Fowler	2/15/22 500am	JB	2/16 2:20
<i>[Signature]</i>			

Samples will be disposed of 30 days after analysis



## **Appendix B: Certifications & Licensure**

**North Carolina  
Asbestos Accreditation**



EXPIRATION			
06/30/22			
DOB	SEX	HT	WT
12-10-1992	M	6'4"	250
CLASS	#	EXP	
INSPECTOR	13299	06-22	

Kevin G Fowler  
1645 Farm Lane  
Creedmoor, NC 27522  
133498

13299, 06/30/2022, North Carolina, Kevin Fowler

## **Appendix C: Photographs**



**Photo Log APP-05552**



Front of Residence, Viewed from Street Level



Rear of Residence, Viewed from Street Level



Roof Sealant



Environmental, Health and Safety Solutions.™



November 24, 2020

Dewberry Engineers, Inc. - ReBuild Phase 2  
1545 Peachtree Street NE, Suite 250  
Atlanta, Georgia 30309

**RE: Asbestos Inspection**

**3110 Overhills Road, Bunnlevel, North Carolina 28323**

**EI Project No: IHMO200333.00**

**ReBuild NC Batch ID: APP-05552, INSP-0005702**

Dear Ms. Paula Sue Copley:

Per the contract outlined by The North Carolina Office of Recovery and Resiliency (NCORR), The EI Group, Inc. performed a limited asbestos inspection for the residence located at 3110 Overhills Road in Bunnlevel, North Carolina. The inspection was performed by Mr. Curtis Duncan (NC Asbestos Inspector #10649) on November 11, 2020 and limited to the residence's accessible interior and exterior (roofing materials were excluded).

**Methodology**

*Asbestos Containing Materials (ACM)*

In order to complete the required ACM Survey, EI performed this survey in general accordance with 40 CFR 763 Subpart E. The survey and sampling methods used as part of this survey are described below.

*ACM Visual Survey Methodology*

For the building structure a limited visual survey of building materials within the designated construction area was completed. The purpose of this was for the certified inspection staff to identify the locations of all suspected ACM. The inspector touched all suspected ACM to determine whether they are friable or non-friable materials. Based upon the AHERA regulations, friable materials can be determined as those materials, that when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes non-friable materials that have become damaged to a point where they may also meet this determination. This visual survey was also completed to identify all homogeneous areas of suspected ACM and to assess the physical condition of each of these materials. A

homogeneous area is defined as an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture. Once these homogeneous areas are established for the various inspected building, bulk samples were collected per the sampling methodology described below.

### *ACM Sampling Methodology*

All sampling methods were collected in general accordance with NESHAP regulations. Depending on the type of building materials, various sampling methodologies were employed and are described below.

#### Surfacing Materials

Surfacing materials are defined as material that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes. All surfacing materials were collected with at least three (3) bulk samples by an accredited inspector in a statistically random manner that is representative of the previously identified homogeneous area.

#### Miscellaneous Materials

Miscellaneous materials are defined as building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or TSI. All miscellaneous materials were collected by an accredited inspector in a manner sufficient to determine whether material is ACM or not ACM. An accredited inspector collected bulk samples from each identified homogeneous area.

#### Thermal System Insulation

Thermal System Insulation (TSI) includes pipe insulation, boiler insulation, tank insulation, any insulation and other insulation needed for heating/cooling processes. At least three (3) samples of TSI were collected in a statistically random matter.

### *ACM Analytical Methodology*

An appropriate number of samples, per the described methodology, were collected and submitted for analysis to Eurofins CEI, an NC NVLAP accredited laboratory. Samples were analyzed by the Environmental Protection Agency (EPA) 600/R-93/116 Method using Polarized Light Microscopy. Per the EPA if any homogenous material contains >1% asbestos by weight that material is considered asbestos containing and is therefore regulated. A positive stop protocol was also employed. This directive to the lab stops analysis of samples at the first positive analysis of a homogeneous material group, eliminating multiple analyses of the same material.

EPA allows the drywall system components (wallboard, tape and joint compound) to be composited for analysis. See 40 CFR Part 61 (FRL-4821-7) "Asbestos NESHAP Clarification Regarding Analysis of Multi-layered Systems" as published on page 542 of the Federal Register Vol. 59, No. 3 dated January 8th, 1994.

Occupational Safety and Health Administrations (OSHA) considers any percentage of asbestos fiber in building material as a hazard and the building owner must ensure demolition contractor adhere all OSHA regulations regarding building materials containing asbestos fiber.

## Findings/Results

Suspect asbestos-containing materials that were visible/accessible within the residence consisted of the following:

- 004 - Caulk, Window
- 003 - Gypsum Wallboard
- 002 - Brown Linoleum
- 001 - Textured Ceiling Material (Popcorn)

Of the suspected asbestos containing materials collected, none were found by analytical analysis to be regulated asbestos materials (>1% by weight).

## Conclusion/Recommendations

Any additional suspect materials identified outside of this survey should be presumed positive for ACM until further testing is completed.

Enclosed, please find copies of all chains of custody, laboratory analytical data, and licensure. If you have any questions regarding this information, please feel free to contact me at your earliest convenience.

Sincerely,  
The EI Group, Inc.

A handwritten signature in cursive script that reads "Kristen Switzer".

Ms. Kristen Switzer  
Industrial Hygienist

Appendix A: Chain of Custody & Laboratory Analytical Data

Appendix B: Certifications & Licensure

Appendix C: Sample Location Maps

Appendix D: Photographs

## APPENDIX A: CHAIN OF CUSTODY AND LABORATORY ANALYTICAL DATA



November 16, 2020

The EI Group  
2101 Gateway Centre Blvd., Ste. 200  
Morrisville, NC 27560

**CLIENT PROJECT:** APP-05552, INSP-0005702, Paula Sue Copley, 3110 Overhills Road, Bunnlevel, North Carolina 28323, IHMO200333.00  
**CEI LAB CODE:** B2010622

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 11, 2020. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

A handwritten signature in black ink, appearing to read "Tianbao Bai".

Tianbao Bai, Ph.D., CIH  
Laboratory Director



730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

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**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for  
**The EI Group**

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CLIENT PROJECT: APP-05552, INSP-0005702, Paula Sue Copley, 3110  
Overhills Road, Bunnlevel, North Carolina 28323,  
IHMO200333.00

LAB CODE: B2010622

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 11/16/20

TOTAL SAMPLES ANALYZED: 9

# SAMPLES >1% ASBESTOS:



**PROJECT:** APP-05552, INSP-0005702, Paula Sue Copley, 3110 Overhills Road, Bunnlevel, North      **LAB CODE:** B2010622

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		B161788	White	Textured Ceiling	None Detected
001B		B161789	White	Textured Ceiling	None Detected
001C		B161790	White	Textured Ceiling	None Detected
002A		B161791	Brown	Linoleum	None Detected
002B		B161792	Brown	Linoleum	None Detected
003A		B161793	Brown,Gray	Wallboard	None Detected
003B		B161794	Brown,Gray	Wallboard	None Detected
004A		B161795	White,Gray	Window Caulking	None Detected
004B		B161796	White,Gray	Window Caulking	None Detected

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** The EI Group  
 2101 Gateway Centre Blvd., Ste. 200  
 Morrisville, NC 27560

**Lab Code:** B2010622  
**Date Received:** 11-11-20  
**Date Analyzed:** 11-16-20  
**Date Reported:** 11-16-20

**Project:** APP-05552, INSP-0005702, Paula Sue Copley, 3110 Overhills Road, Bunnlevel, North Carolina 28323,  
 #IMO200333.00

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
001A B161788	Textured Ceiling	Heterogeneous	55%	Binder	None Detected	
		White	35%	Silicates		
		Non-fibrous	10%	Paint		
		Bound				
001B B161789	Textured Ceiling	Heterogeneous	55%	Binder	None Detected	
		White	35%	Silicates		
		Non-fibrous	10%	Paint		
		Bound				
001C B161790	Textured Ceiling	Heterogeneous	55%	Binder	None Detected	
		White	35%	Silicates		
		Non-fibrous	10%	Paint		
		Bound				
002A B161791	Linoleum	Heterogeneous	50%	Cellulose	None Detected	
		Brown	50%	Vinyl		
		Fibrous				
		Bound				
002B B161792	Linoleum	Heterogeneous	50%	Cellulose	None Detected	
		Brown	50%	Vinyl		
		Fibrous				
		Bound				
003A B161793	Wallboard	Heterogeneous	20%	Cellulose	None Detected	
		Brown,Gray	80%	Gypsum		
		Fibrous				
		Bound				
003B B161794	Wallboard	Heterogeneous	20%	Cellulose	None Detected	
		Brown,Gray	80%	Gypsum		
		Fibrous				
		Bound				



## ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** The EI Group  
 2101 Gateway Centre Blvd., Ste. 200  
 Morrisville, NC 27560

**Lab Code:** B2010622  
**Date Received:** 11-11-20  
**Date Analyzed:** 11-16-20  
**Date Reported:** 11-16-20

**Project:** APP-05552, INSP-0005702, Paula Sue Copley, 3110 Overhills Road, Bunnlevel, North Carolina 28323,  
 #IMO200333.00

### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
004 A B161795	Window Caulking	Heterogeneous	100%	Caulk	None Detected
		White, Gray Non-fibrous Bound	<1%	Paint	
004 B B161796	Window Caulking	Heterogeneous	100%	Caulk	None Detected
		White, Gray Non-fibrous Bound	<1%	Paint	

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**LEGEND:** Non-Anth = Non-Asbestiform Anthophyllite  
Non-Trem = Non-Asbestiform Tremolite  
Calc Carb = Calcium Carbonate

---

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

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**REPORTING LIMIT:** <1% by visual estimation

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**REPORTING LIMIT FOR POINT COUNTS:** 0.25% by 400 Points or 0.1% by 1,000 Points

---

**REGULATORY LIMIT:** >1% by weight


---

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

**ANALYST:**   
Kathryn Wescott

**APPROVED BY:**   
Tianbao Bai, Ph.D., CIH  
Laboratory Director



B2010622  
 B161788-B161796 (9)



A9EYT7



The EI Group, Inc.  
 2101 Gateway Centre Boulevard, Suite 200  
 Morrisville, North Carolina 27560

**EUROFINS CEI, INC**  
**SAMPLES ACCEPTED**

JB

**Chain of Custody**

**Laboratory:** Eurofins CEI  
**Project:** APP-05552, INSP-0005702  
**Additional Project Number:** IHMO200333.00  
**Site Location:** Paula Sue Copley  
 3110 Overhills Road  
 Bunnlevel, North Carolina 28323  
**Sampled By:** Ryan Bumpass (rbumpass@ei1.com)  
**Purpose:** NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Turn-Around Time Request**

3 Day

**Laboratory Notes**

Stop after first positive for each HM

**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Textured Ceiling Material (Popcorn)	Main floor	Living Room	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Textured Ceiling Material (Popcorn)	Main floor	Kitchen	EPA Test Method 600/R-93/116 (PLM)
001C	001 - Textured Ceiling Material (Popcorn)	Main floor	Bedroom 1	EPA Test Method 600/R-93/116 (PLM)
002A	002 - Brown Linoleum	Main floor	Bathroom 1	EPA Test Method 600/R-93/116 (PLM)
002B	002 - Brown Linoleum	Main floor	Kitchen	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Gypsum Wallboard	Main floor	Bedroom 3	EPA Test Method 600/R-93/116 (PLM)
003B	003 - Gypsum Wallboard	Main floor	Bedroom 2	EPA Test Method 600/R-93/116 (PLM)

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004A	004 - Caulk, Window	Main floor	side a	EPA Test Method 600/R-93/116 (PLM)
004B	004 - Caulk, Window	Main floor	side c	EPA Test Method 600/R-93/116 (PLM)

_____ Sampled By	_____ Date	_____ Time
---------------------	---------------	---------------

<u>JB</u> Received By	<u>11/11</u> Date	<u>4:50</u> Time
_____ Relinquished By	_____ Date	_____ Time

_____ Received By	_____ Date	_____ Time
_____ Relinquished By	_____ Date	_____ Time

_____ Received By	_____ Date	_____ Time
_____ Relinquished By	_____ Date	_____ Time

_____ Analysis By	_____ Date	_____ Time
----------------------	---------------	---------------

## APPENDIX B: LICENSES AND CERTIFICATIONS



NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

ROY COOPER • Governor
MANDY COHEN, MD, MPH • Secretary
MARK T. BENTON • Assistant Secretary for Public Health,
Division of Public Health

November 2, 2020

Robert Curtis Duncan
925 Halsey Knob Rd
Sparta, NC 28675



Robert Curtis Duncan
925 Halsey Knob Rd
Sparta, NC 28675

North Carolina Asbestos Accreditation

Table with columns: EXPIRATION (10-31-2021), DOB (05-29-1957), SEX (M), HT (5'7"), WT (120), CLASS (#, EXP). Rows: AIR MONITOR (80040, 10-21), INSPECTOR (10649, 10-21)

Dear Mr. Duncan:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 10649, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on OCTOBER 31, 2021. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to October 31, 2021. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.

Sincerely,

Ed Norman (handwritten signature)

Ed Norman
Program Manager
Health Hazards Control Unit

Enclosure

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES . DIVISION OF PUBLIC HEALTH

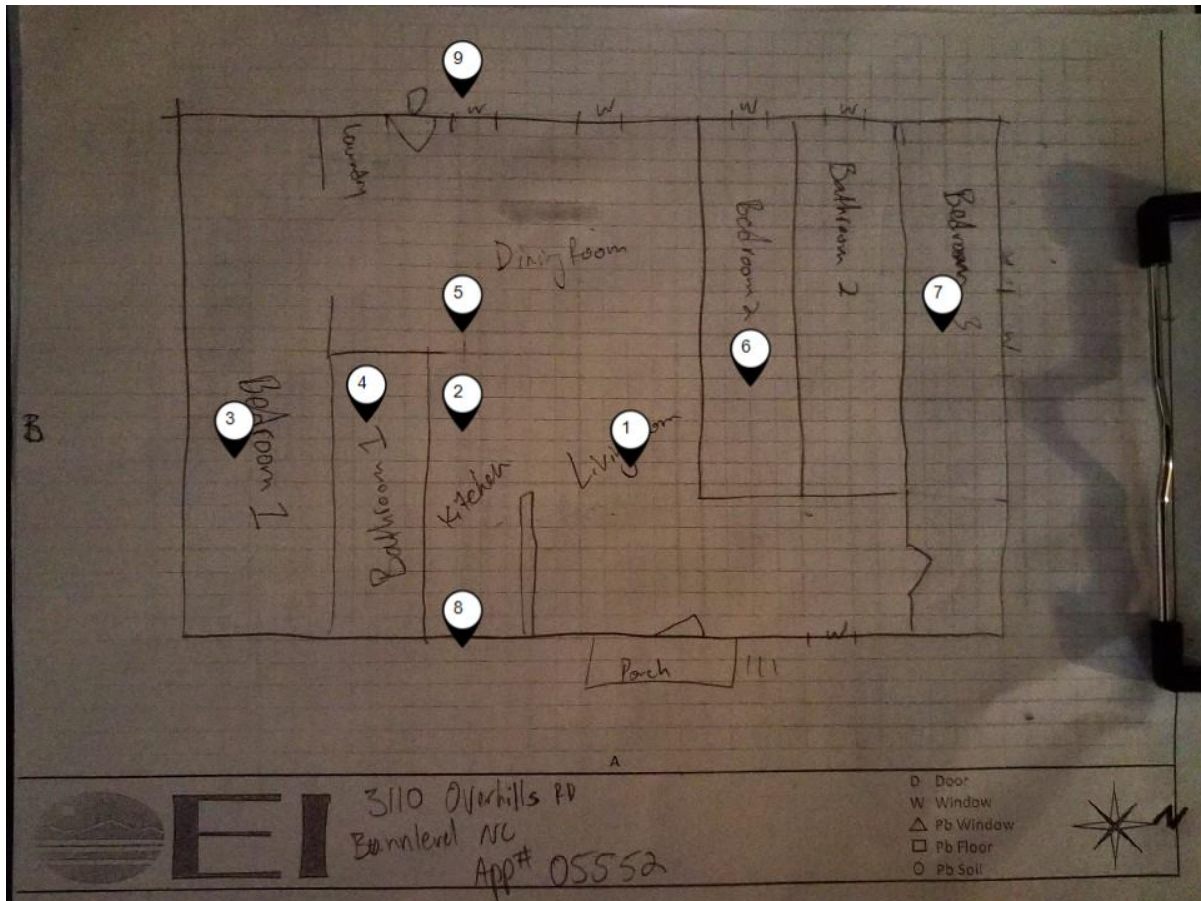
LOCATION: 5505 Six Forks Road, Building 1, Raleigh, NC 27609
MAILING ADDRESS: 1912 Mail Service Center, Raleigh, NC 27699-1912
www.ncdhhs.gov . TEL: 919-707-5950 . FAX: 919-870-4808



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## APPENDIX C: SAMPLE LOCATION MAPS

All Sample Locations for Main floor



Map ID	Sample ID	Section Name	Space Name	Material	Lab Result	Analytical Result
1	001A	Main floor	Living Room	001 - Textured Ceiling Material (Popcorn)	Tested Negative by Lab (No Asbestos Detected)	N/A
2	001B	Main floor	Kitchen	001 - Textured Ceiling Material (Popcorn)	Tested Negative by Lab (No Asbestos Detected)	N/A
3	001C	Main floor	Bedroom 1	001 - Textured Ceiling Material (Popcorn)	Tested Negative by Lab (No Asbestos Detected)	N/A
4	002A	Main floor	Bathroom 1	002 - Brown Linoleum	Tested Negative by Lab (No Asbestos Detected)	N/A
5	002B	Main floor	Kitchen	002 - Brown Linoleum	Tested Negative by Lab (No Asbestos Detected)	N/A
6	003A	Main floor	Bedroom 3	003 - Gypsum Wallboard	Tested Negative by Lab (No Asbestos Detected)	N/A
7	003B	Main floor	Bedroom 2	003 - Gypsum Wallboard	Tested Negative by Lab (No Asbestos Detected)	N/A
8	004A	Main floor	Side A	004 - Caulk, Window	Tested Negative by Lab (No Asbestos Detected)	N/A
9	004B	Main floor	Side C	004 - Caulk, Window	Tested Negative by Lab (No Asbestos Detected)	N/A



## APPENDIX D: PHOTOGRAPHS

### Asbestos-Containing Material (Tested Greater Than 1%) Photographs

No images found for samples that have tested positive containing at least 1% asbestos

### Asbestos-Containing Material (Assumed Positive) Photographs

No images found for homogenous materials that are assumed positive containing asbestos

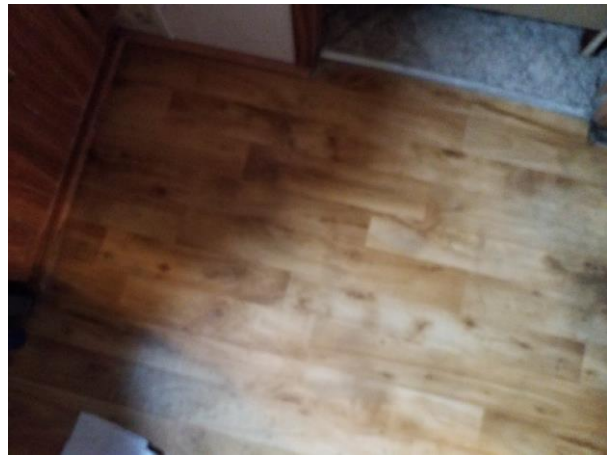
### Trace Positive Material (Equal to or Less Than 1% Asbestos) Photographs

No images found for samples that have tested positive containing less than or equal to 1% asbestos.

### Materials That Tested Negative for Asbestos Photographs



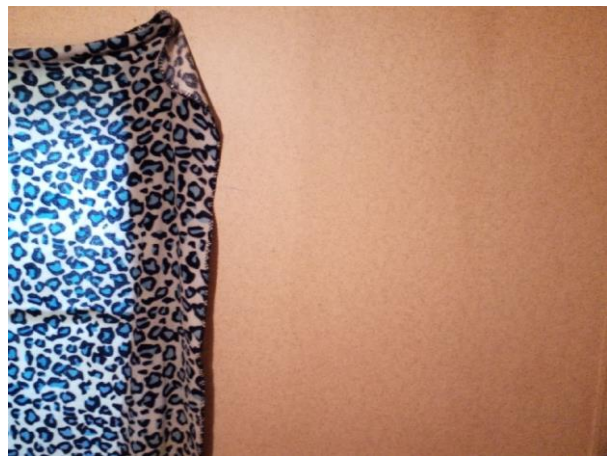
001A, 001 - Textured Ceiling Material (Popcorn), Living Room, Main floor



002A, 002 - Brown Linoleum, Bathroom 1, Main floor



003A, 003 - Gypsum Wallboard, Bedroom 3, Main floor



003B, 003 - Gypsum Wallboard, Bedroom 2, Main floor



004A, 004 - Caulk, Window, Side A, Main floor



Living Room, Main floor



Bedroom 1, Main floor



Bedroom 3, Main floor



## Elevation Photos



Side A



Side B



Side C



Side D