



Environmental, Health and Safety Solutions.™



May 16, 2022

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

**RE: Asbestos Inspection**

**2105 Decor St., Fayetteville, North Carolina 28304**

**EI Project No: IHMO220083.00**

**ReBuild NC Batch ID: APP-09997, INSP-0012814**

Dear Ms. Victoria Keels:

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 2105 Decor st. in Fayetteville, North Carolina. The inspection was performed by Mr. Chris Ciappina (NC Asbestos Inspector #13253) on May 04, 2022 and limited to the residence's accessible interior and exterior.

**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:

- 003 - Caulk, Window
- 002 - Gypsum Wallboard
- 001 - Roofing, Composite Shingle
- 004 - Window Glaze

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.



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



May 9, 2022

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

**CLIENT PROJECT:** APP-09997, INSP-0012814; IHMO220083.00  
**CEI LAB CODE:** A223157

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 5, 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,

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

---

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

Prepared for  
**The EI Group**

---

CLIENT PROJECT: APP-09997, INSP-0012814; IHMO220083.00

LAB CODE: A223157

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

REPORT DATE: 05/09/22

TOTAL SAMPLES ANALYZED: 8

# SAMPLES >1% ASBESTOS:

730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

PROJECT: APP-09997, INSP-0012814;  
IHMO220083.00

LAB CODE: A223157

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A223157.01	Gray,Brown	Roofing, Composite Shingle	None Detected
001B		A223157.02	Gray,Brown	Roofing, Composite Shingle	None Detected
002A		A223157.03	Gray,Brown	Gypsum Wallboard/joint Compound	Chrysotile <1%
002B		A223157.04	Gray,Brown	Gypsum Wallboard/joint Compound	Chrysotile <1%
003A		A223157.05	White	Caulk, Window	None Detected
003B		A223157.06	White	Caulk, Window	None Detected
004A		A223157.07	White	Window Glaze	None Detected
004B		A223157.08	White	Window Glaze	None Detected

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

**Lab Code:** A223157  
**Date Received:** 05-05-22  
**Date Analyzed:** 05-09-22  
**Date Reported:** 05-09-22

**Project:** APP-09997, INSP-0012814; IHMO220083.00

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>001A</b> A223157.01	Roofing, Composite Shingle	Heterogeneous Gray,Brown Fibrous Bound	30%	Fiberglass	60% 10%	Tar Gravel	None Detected
<b>001B</b> A223157.02	Roofing, Composite Shingle	Heterogeneous Gray,Brown Fibrous Bound	30%	Fiberglass	60% 10%	Tar Gravel	None Detected
<b>002A</b> A223157.03	Gypsum Wallboard/joint Compound	Heterogeneous Gray,Brown Fibrous Bound	15%	Cellulose	73% 10% 2%	Gypsum Calc Carb Paint	<1% Chrysotile
2% Chrysotile in joint compound only; <1% overall.							
<b>002B</b> A223157.04	Gypsum Wallboard/joint Compound	Heterogeneous Gray,Brown Fibrous Bound	15%	Cellulose	73% 10% 2%	Gypsum Calc Carb Paint	<1% Chrysotile
2% Chrysotile in joint compound only; <1% overall.							
<b>003A</b> A223157.05	Caulk, Window	Homogeneous White Non-fibrous Bound			100%	Caulk	None Detected
<b>003B</b> A223157.06	Caulk, Window	Homogeneous White Non-fibrous Bound			100%	Caulk	None Detected
<b>004A</b> A223157.07	Window Glaze	Homogeneous White Non-fibrous Bound			80% 20%	Binder Calc Carb	None Detected

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A223157  
**Date Received:** 05-05-22  
**Date Analyzed:** 05-09-22  
**Date Reported:** 05-09-22

**Project:** APP-09997, INSP-0012814; IHMO220083.00

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
004B A223157.08	Window Glaze	Homogeneous	80%	Binder	None Detected
		White	20%	Calc Carb	
		Non-fibrous			
		Bound			



---

**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

---

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

---

**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:**

  
Ryan Steele

**APPROVED BY:**

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director



## 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

September 2, 2021

Christopher A Ciappina  
2101 Gateway Centre Blvd Ste 200  
Morrisville, NC 27560

Dear Mr. Ciappina:

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 13253, 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 AUGUST 31, 2022. 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 August 31, 2022. 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  
Program Manager  
Health Hazards Control Unit



Christopher A Ciappina  
2101 Gateway Centre Blvd  
Morrisville, NC 27560

133667

North Carolina Asbestos Accreditation				
EXPIRATION				
08-31-2022				
DOB	SEX	HT	WT	
07-06-1967	M	5'7"	220	
CLASS	#	EXP		
AIR MONITOR	80962	04-22		
INSPECTOR	13253	08-22		

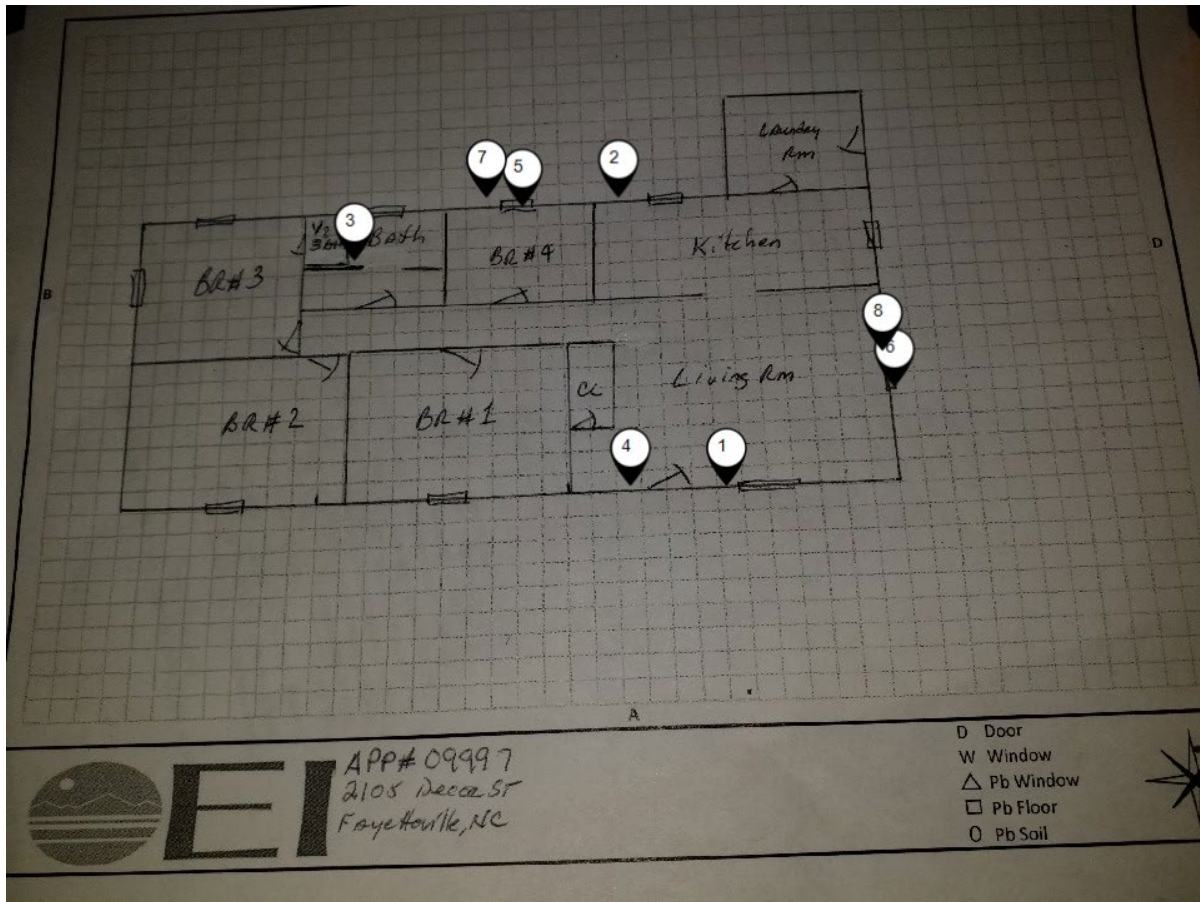
NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF PUBLIC HEALTH

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

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

13253, 08/31/2022, North Carolina, Chris Ciappina

## APPENDIX C: SAMPLE LOCATION MAPS



Map ID	Sample ID	Space Name	Material	Lab Result	Analytical Result
1	001A	Exterior	001 - Roofing, Composite Shingle	Tested Negative by Lab (No Asbestos Detected)	N/A
2	001B	Exterior	001 - Roofing, Composite Shingle	Tested Negative by Lab (No Asbestos Detected)	N/A
3	002A	Bathroom	002 - Gypsum Wallboard	Less Than or Equal to 1% Asbestos by Lab (Trace)	N/A
4	002B	Living Room	002 - Gypsum Wallboard	Less Than or Equal to 1% Asbestos by Lab (Trace)	N/A
5	003A	Exterior	003 - Caulk, Window	Tested Negative by Lab (No Asbestos Detected)	N/A
6	003B	Exterior	003 - Caulk, Window	Tested Negative by Lab (No Asbestos Detected)	N/A
7	004A	Exterior	004 - Window Glaze	Tested Negative by Lab (No Asbestos Detected)	N/A
8	004B	Exterior	004 - Window Glaze	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



002A, 002 - Gypsum Wallboard, Bathroom, Main Floor



002B, 002 - Gypsum Wallboard, Living Room, Main Floor

### Materials That Tested Negative for Asbestos Photographs



001A, 001 - Roofing, Composite Shingle, Exterior, Main Floor



003A, 003 - Caulk, Window, Exterior, Main Floor





003B, 003 - Caulk, Window, Exterior, Main Floor



004A, 004 - Window Glaze, Exterior, Main Floor

### Elevation Photos



Side A, Main Floor



Side B, Main Floor



Side C, Main Floor



Side D, Main Floor



## HOMEOWNER RECOVERY PROGRAM Asbestos QC Checklist

Inspection Information	
Application ID Number: APP-09997	Inspection Date: 5-4-22
ACM Inspection Company: The EI Group, Inc.	ACM Inspector: Chris Ciappina
QC Reviewer: Tom Majkowski	

Applicant Information	Confirmed	Comment
Name	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Address	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Application ID Number	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Date Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Inspector Name	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ACM Report	Confirmed	Comment
Asbestos Content Determination	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Conclusions	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Table 1 (Suspected ACBM)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Table 2 (Confirmed ACBM)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Table 3 (PACM or ACM)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Table 4 (Sample Locations)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Drawings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Special Conditions	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A
Inspector License/Certification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Firm License/Certification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A
Laboratory Certification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Lab Data	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Photographic documentation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



Photos	Confirmed	Comment
Exterior Photos	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Photos (labeled) and Date Stamped	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Close-ups of Suspect Items	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ECR Line Items	Confirmed	Comment
Title Page	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Breakdown by Room	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Summary	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Photos	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sketch	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Salesforce Entries	Confirmed	Comment
Status - Report Approved	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Active Record	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Inspection Date	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Asbestos Identified	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Asbestos Remediation Scope	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Remediation Amount is correct	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Document Uploaded	<input type="checkbox"/> Yes <input type="checkbox"/> No	