



Environmental, Health and Safety Solutions.™



December 09, 2021

ReBuild NC - Package 15
1600 Perimeter Park Drive
Morrisville, North Carolina 27560

RE: Asbestos Inspection
121 Stewart Farm Ln., Spring Lake, North Carolina 28390
ReBuild NC Batch ID: APP-03991

Dear Ms. Sherry Stewart:

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 121 Stewart Farm Ln. in Spring Lake, North Carolina. The inspection was performed by Mr. Brian Long (NC Asbestos Inspector #13212) on November 23, 2021 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:

- 002 - Gypsum Wallboard Joint Compound
- 001 - Textured Ceiling

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 black ink that reads "Kristen Ballins-Switzer". The signature is written in a cursive style with a long, sweeping tail on the letter 'S'.

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



CEI

December 2, 2021

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

CLIENT PROJECT: APP-03991
CEI LAB CODE: B2112100

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 23, 2021. 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



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-03991

LAB CODE: B2112100

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

REPORT DATE: 12/02/21

TOTAL SAMPLES ANALYZED: 7

SAMPLES >1% ASBESTOS:

PROJECT: APP-03991

LAB CODE: B2112100

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		B193801	White	Textured Ceiling	None Detected
001B		B193802	White	Textured Ceiling	None Detected
001C		B193803	White	Textured Ceiling	None Detected
001D		B193804	White	Textured Ceiling	None Detected
001E		B193805	White	Textured Ceiling	None Detected
002A		B193806	White	Joint Compound	None Detected
002B		B193807	White	Joint Compound	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

Lab Code: B2112100
Date Received: 11-23-21
Date Analyzed: 12-02-21
Date Reported: 12-02-21

Project: APP-03991

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
001A B193801	Textured Ceiling	Heterogeneous	55%	Binder	None Detected
		White	40%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			
001B B193802	Textured Ceiling	Heterogeneous	55%	Binder	None Detected
		White	40%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			
001C B193803	Textured Ceiling	Heterogeneous	55%	Binder	None Detected
		White	40%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			
001D B193804	Textured Ceiling	Heterogeneous	55%	Binder	None Detected
		White	40%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			
001E B193805	Textured Ceiling	Heterogeneous	55%	Binder	None Detected
		White	40%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			
002A B193806	Joint Compound	Heterogeneous	55%	Binder	None Detected
		White	40%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			
Lab Notes: No wallboard present.					
002B B193807	Joint Compound	Heterogeneous	55%	Binder	None Detected
		White	40%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			
Lab Notes: No wallboard present.					

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

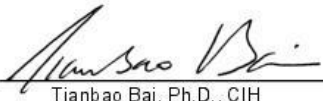
REGULATORY LIMIT: >1% by weight

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: 
Kathryn Wescott

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



B2112100 B193801 - B193809



6VFKV9



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

EUROFINS CEI, INC
SAMPLES ACCEPTED

Chain of Custody

(7)

Laboratory: Eurofins CEI
Project: APP-03991
Site Location: Sherry Stewart
121 Stewart Farm Ln.
Spring Lake, North Carolina 28390
Sampled By: Brian Long (blong@ei1.com)
Purpose: NESHAP Compliance (Pre-Renovation/Pre-Demolition)

Laboratory Notes

BWB

Stop after first positive for each HM

Turn-Around Time Request

5 Day

Samples

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Textured Ceiling	Main Floor	Living Room	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Textured Ceiling	Main Floor	Living Room	EPA Test Method 600/R-93/116 (PLM)
001C	001 - Textured Ceiling	Main Floor	Living Room	EPA Test Method 600/R-93/116 (PLM)
001D	001 - Textured Ceiling	Main Floor	Living Room	EPA Test Method 600/R-93/116 (PLM)
001E	001 - Textured Ceiling	Main Floor	Living Room	EPA Test Method 600/R-93/116 (PLM)
002A	002 - Gypsum Wallboard Joint Compound	Main Floor	Living Room	EPA Test Method 600/R-93/116 (PLM)
002B	002 - Gypsum Wallboard Joint Compound	Main Floor	Living Room	EPA Test Method 600/R-93/116 (PLM)

B2112100

Sampled By	Date	Time
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BMB	11/23/21	3:30
Received By	Date	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
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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

October 14, 2021

Brian T Long
884 Ribbonleaf Ln
Fuquay Varina, NC 27526

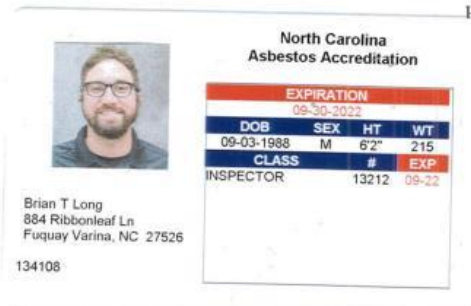
Dear Mr. Long:

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 13212, 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 SEPTEMBER 30, 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 September 30, 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



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

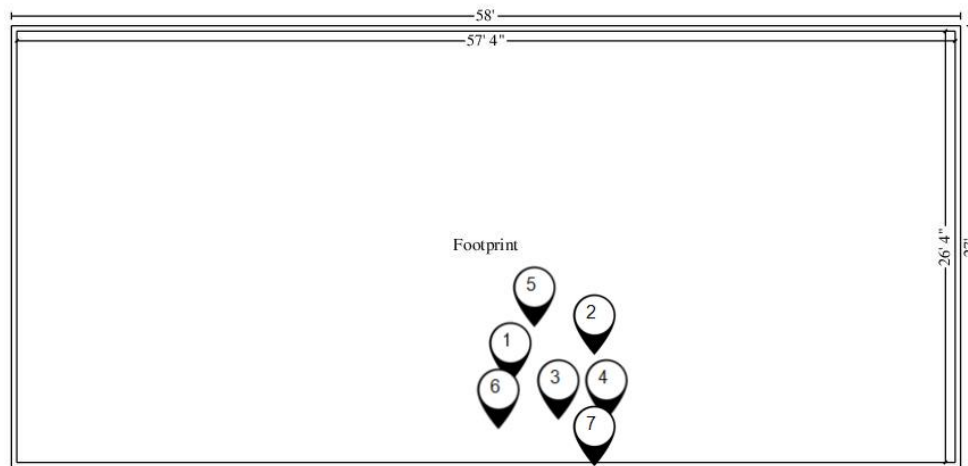
LOCATION: 5505 Six Forks Road, Building 1, Raleigh, NC 27609
MAILING ADDRESS: 1912 Mail Service Center, Raleigh, NC 27699-1912
www.ncdhhs.gov • TEL: 919-707-5950 • FAX: 919-870-4808

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

13212, 09/30/2022, North Carolina, Brian Long

APPENDIX C: SAMPLE LOCATION MAPS

Main Level



Main Level

03991_MH_ESX-1

2/25/2019

Page: 22

Map ID	Sample ID	Space Name	Material	Lab Result	Analytical Result
1	001A	Living Room	001 - Textured Ceiling	Tested Negative by Lab (No Asbestos Detected)	N/A
2	001B	Living Room	001 - Textured Ceiling	Tested Negative by Lab (No Asbestos Detected)	N/A
3	001C	Living Room	001 - Textured Ceiling	Tested Negative by Lab (No Asbestos Detected)	N/A
4	001D	Living Room	001 - Textured Ceiling	Tested Negative by Lab (No Asbestos Detected)	N/A
5	001E	Living Room	001 - Textured Ceiling	Tested Negative by Lab (No Asbestos Detected)	N/A
6	002A	Living Room	002 - Gypsum Wallboard Joint Compound	Tested Negative by Lab (No Asbestos Detected)	N/A
7	002B	Living Room	002 - Gypsum Wallboard Joint Compound	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, Living Room, Main Floor



002A, 002 - Gypsum Wallboard Joint Compound, Living Room, Main Floor