



Environmental, Health and Safety Solutions.™



May 17, 2022

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

RE: Asbestos Inspection

1908 East 5th Street, Lumberton, North Carolina 28358

EI Project No: IHMO220083.00

ReBuild NC Batch ID: APP-10101, INSP-0012852

Dear Mr. Darron Devone McRae:

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 1908 East 5th Street in Lumberton, North Carolina. The inspection was performed by Mr. Fabrizio Simoni (NC Asbestos Inspector #12723) on May 05, 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:

- 004 - Beige VF
- 006 - Chimney Mastic
- 003 - Floor, Sheet Vinyl Paper Backing
- 002 - Gypsum Wallboard Joint Compound
- 005 - Roofing, Composite Shingle
- 001 - Textured Ceiling

Of the suspected asbestos containing materials collected, none were found by analytical analysis to be regulated asbestos materials (>1% by weight). However, the mastic around the chimney was not accessible at the time of assessment. As such, the mastic is considered to be a presumed asbestos containing material (PACM). This material is summarized below:

Material	Location	Asbestos Amount	Condition	Approximate Quantity
Chimney Mastic	Exterior/Roof	Presumed ACM in Field (PACM)	Good	6 LF

Conclusion/Recommendations

If the above identified material presumed to be containing >1 % asbestos is 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.

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 11, 2022

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

CLIENT PROJECT: APP-10101, INSP-0012852; IHMO220083.00
CEI LAB CODE: A223370

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 9, 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-10101, INSP-0012852, IHMO220083.00

LAB CODE: A223370

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

REPORT DATE: 05/11/22

TOTAL SAMPLES ANALYZED: 11

SAMPLES >1% ASBESTOS:

730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: APP-10101, INSP-0012852;
IHMO220083.00

LAB CODE: A223370

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A223370.01	White,Gray	Textured Ceiling	None Detected
001B		A223370.02	White,Gray	Textured Ceiling	None Detected
001C		A223370.03	White,Gray	Textured Ceiling	None Detected
002A		A223370.04	White,Tan	Wallboard/Joint Compound	None Detected
002B		A223370.05	White,Tan	Wallboard/Joint Compound	None Detected
003A		A223370.06	Beige	Sheet Vinyl	None Detected
003B		A223370.07	Beige	Sheet Vinyl	None Detected
004A		A223370.08	Beige	Sheet Vinyl	None Detected
004B		A223370.09	Beige	Sheet Vinyl	None Detected
005A		A223370.10	Black,Brown	Shingle	None Detected
005B		A223370.11	Black,Brown	Shingle	None Detected

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

Lab Code: A223370
Date Received: 05-09-22
Date Analyzed: 05-11-22
Date Reported: 05-11-22

Project: APP-10101, INSP-0012852; IHMO220083.00

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
001A A223370.01	Textured Ceiling	Heterogeneous White, Gray Non-fibrous Bound			65% Binder 30% Foam 5% Paint		None Detected
001B A223370.02	Textured Ceiling	Heterogeneous White, Gray Non-fibrous Bound			65% Binder 30% Foam 5% Paint		None Detected
001C A223370.03	Textured Ceiling	Heterogeneous White, Gray Non-fibrous Bound			65% Binder 30% Foam 5% Paint		None Detected
002A A223370.04	Wallboard/Joint Compound	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	75% Gypsum 5% Calc Carb <1% Paint		None Detected
002B A223370.05	Wallboard/Joint Compound	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	75% Gypsum 5% Calc Carb <1% Paint		None Detected
003A A223370.06	Sheet Vinyl	Heterogeneous Beige Fibrous Bound	20% 10%	Cellulose Fiberglass	50% Vinyl 20% Binder		None Detected
003B A223370.07	Sheet Vinyl	Heterogeneous Beige Fibrous Bound	20% 10%	Cellulose Fiberglass	50% Vinyl 20% Binder		None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

Lab Code: A223370
Date Received: 05-09-22
Date Analyzed: 05-11-22
Date Reported: 05-11-22

Project: APP-10101, INSP-0012852; IHMO220083.00

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
004A A223370.08	Sheet Vinyl	Heterogeneous	20%	Cellulose	50%	Vinyl	None Detected
		Beige	10%	Fiberglass	20%	Binder	
		Fibrous					
		Bound					
004B A223370.09	Sheet Vinyl	Heterogeneous	20%	Cellulose	50%	Vinyl	None Detected
		Beige	10%	Fiberglass	20%	Binder	
		Fibrous					
		Bound					
005A A223370.10	Shingle	Heterogeneous	50%	Fiberglass	40%	Tar	None Detected
		Black,Brown			10%	Gravel	
		Fibrous					
		Bound					
005B A223370.11	Shingle	Heterogeneous	50%	Fiberglass	40%	Tar	None Detected
		Black,Brown			10%	Gravel	
		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: 
Zane Heinz

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 28, 2021

Fabrizio Simoni
2101 Gateway Ctr Blvd Ste 200
Morrisville, NC 27560

Dear Mr. Simoni:

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 12723, 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



Fabrizio Simoni
2101 Gateway Ctr Blvd Ste
Morrisville, NC 27560

133871

North Carolina Asbestos Accreditation

EXPIRATION				
09-30-2022				
DOB	SEX	HT	WT	
01-07-1975	M	5'10"	170	
CLASS	#	EXP		
AIR MONITOR	80949	09-22		
INSPECTOR	12723	09-22		

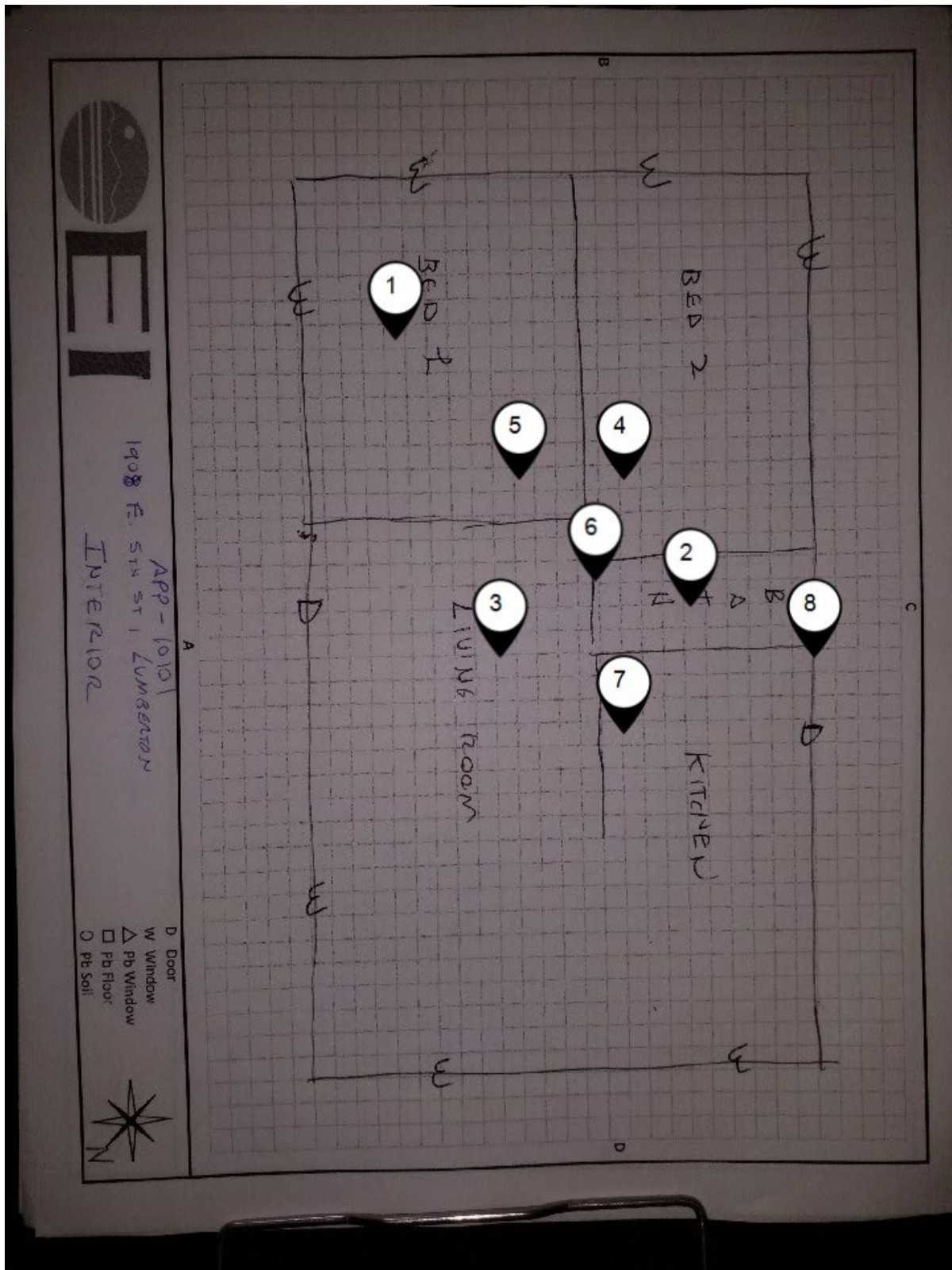
NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF PUBLIC HEALTH

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

12723, 09/30/2022, North Carolina, Fabrizio Simoni

APPENDIX C: SAMPLE LOCATION MAPS



Map ID	Sample ID	Space Name	Material	Lab Result	Analytical Result
1	001A	Bedroom 1	001 - Textured Ceiling	Tested Negative by Lab (No Asbestos Detected)	N/A
2	001B	Bathroom	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	002A	Bedroom 2	002 - Gypsum Wallboard Joint Compound	Tested Negative by Lab (No Asbestos Detected)	N/A
5	002B	Bedroom 1	002 - Gypsum Wallboard Joint Compound	Tested Negative by Lab (No Asbestos Detected)	N/A
6	003A	Bathroom	003 - Floor, Sheet Vinyl Paper Backing	Tested Negative by Lab (No Asbestos Detected)	N/A
7	004A	Kitchen	004 - beige VF	Tested Negative by Lab (No Asbestos Detected)	N/A
8	005A	Exterior	005 - Roofing, Composite Shingle	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

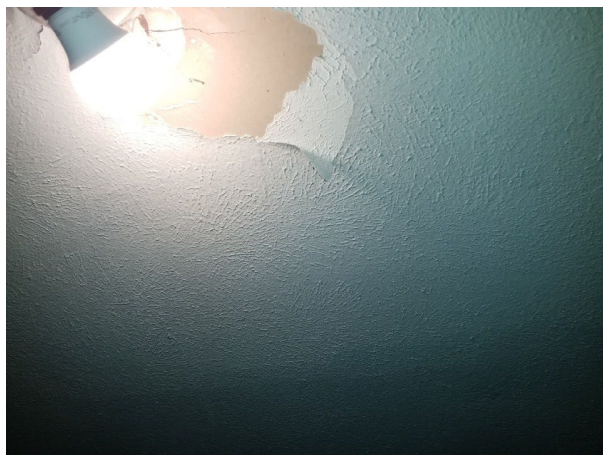


Chimney Mastic

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.

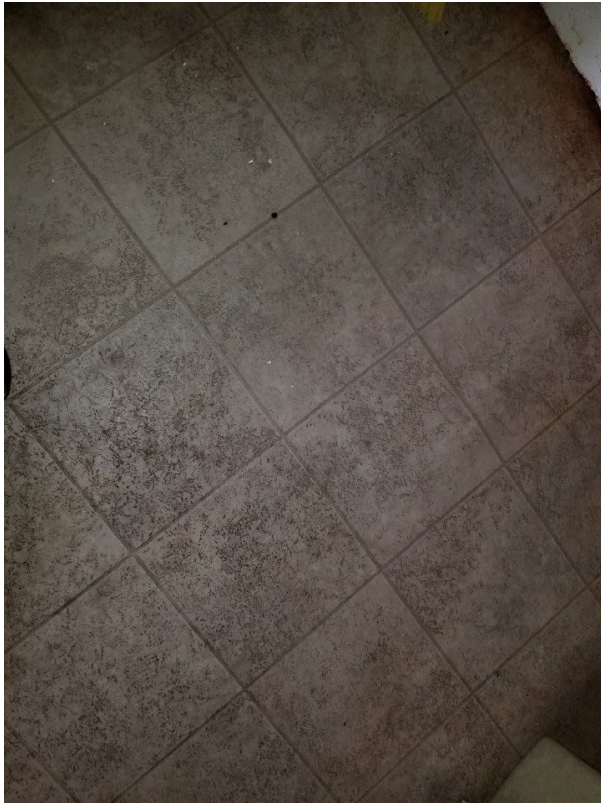
Materials That Tested Negative for Asbestos Photographs



001A, 001 - Textured Ceiling, Bedroom 1, Floorplan



002A, 002 - Gypsum Wallboard Joint Compound, Bedroom 2, Floorplan



003A, 003 - Floor, Sheet Vinyl Paper Backing, Bathroom, Floorplan



004A, 004 - beige VF, Kitchen, Floorplan

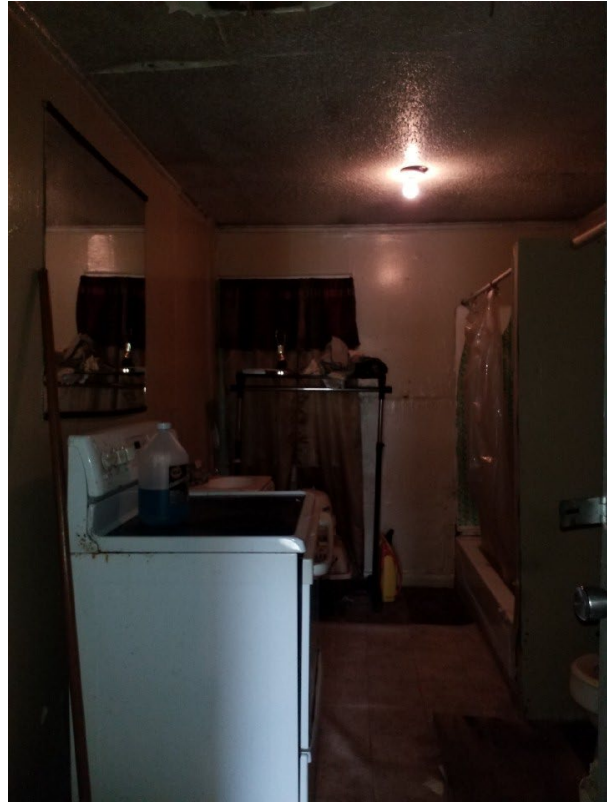


005A, 005 - Roofing, Composite Shingle, Exterior, Floorplan

Elevation Photos



Bedroom 1, Floorplan



Bathroom, Floorplan



Kitchen, Floorplan



Side A, Floorplan



Side B, Floorplan



Side C, Floorplan



Side D, Floorplan



Living Room, Floorplan



Bedroom 2, Floorplan



HOMEOWNER RECOVERY PROGRAM Asbestos QC Checklist

Inspection Information	
Application ID Number: APP-10101	Inspection Date: 5-5-22
ACM Inspection Company: The EI Group, Inc.	ACM Inspector: Fabrizzio Simoni
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	