



Environmental, Health and Safety Solutions.™



August 20, 2021

The City of Lowell  
101 West First Street  
Lowell, NC 28098

**RE: Asbestos Inspection**  
**City of Lowell Community Center**  
**501 West First Street, Lowell, NC**  
**EI Project No: IHCH210040.02**

Dear Ms. Beverly Harris:

Per your request, The EI Group, Inc. performed a limited asbestos inspection for the Community Center located at 501 West First Street, located in Lowell, North Carolina. The inspection was performed by Mr. Lee Clark (NC Asbestos Inspector #11931) on August 13, 2021 and limited to the facility'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:

- Plaster Wall with Skim Coat
- Drywall with Joint Compound
- Textured Ceiling
- Off-White / Beige Floor Tile with Yellow Mastic
- Black Floor Tile with Yellow Mastic
- Red / Gray Linoleum with Brown Mastic
- Green / Gray Linoleum with Brown Mastic
- Brown / Off-White Floor Tile with Black Mastic
- Blue / Gray Linoleum with Off-White / Gray Mastic
- Brown / White Ceiling Tile
- Off-White Window Glaze
- Gray / Off-White Exterior Caulk
- Gray HVAC Mastic

Of the suspected asbestos containing materials collected, 4 types were found by analytical analysis to be regulated asbestos materials (>1% by weight). These materials are summarized below:

Material	Floor/Section	Location	Asbestos Amount	Condition	Approximate Quantity
Off-White Textured Ceiling	First and Second Floor	Entire Interior	3% Chrysotile	Intact	5880 Sq. Ft.
Brown / Off-White Floor Tile	First Floor	Room 2	3% Chrysotile	Intact	360 Sq. Ft.
Black Mastic Associated with Brown / Off-White Tile	First Floor	Room 2	3% Chrysotile	Intact	360 Sq. Ft.
Gray / Off-White Exterior Caulk	Exterior	All Windows and Doors	3% Chrysotile	Intact	3 Doors and 34 Windows

## 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.

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 blue ink, appearing to be 'L. Clark', written in a cursive style.

Mr. Lee B. Clark  
Senior Project Manager, Industrial Hygiene

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

August 17, 2021

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

**CLIENT PROJECT:** City of Lowell Community Center, IHCH210085.00  
**CEI LAB CODE:** A2112344

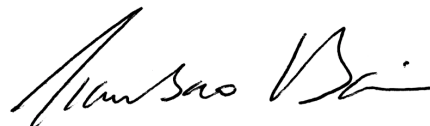
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on August 16, 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



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# **ASBESTOS ANALYTICAL REPORT**

## **By: Polarized Light Microscopy**

Prepared for

**The EI Group**

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CLIENT PROJECT: City of Lowell Community Center, IHCH210085.00

LAB CODE: A2112344

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

REPORT DATE: 08/17/21

TOTAL SAMPLES ANALYZED: 30

# SAMPLES >1% ASBESTOS: 4



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# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** City of Lowell Community Center,  
IHCH210085.00

**LAB CODE:** A2112344

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
501-01	Layer 1	A175511	White	Plaster Skim Coat	None Detected
501-01	Layer 2	A175511	Gray	Plaster Base Coat	Chrysotile <1%
501-02	Layer 1	A175512	White	Plaster Skim Coat	None Detected
501-02	Layer 2	A175512	Gray	Plaster Base Coat	Chrysotile <1%
501-03	Layer 1	A175513	White	Plaster Skim Coat	None Detected
501-03	Layer 2	A175513	Gray	Plaster Base Coat	Chrysotile <1%
501-04	Layer 1	A175514	White	Plaster Skim Coat	None Detected
501-04	Layer 2	A175514	Gray	Plaster Base Coat	Chrysotile <1%
501-05	Layer 1	A175515	White	Plaster Skim Coat	None Detected
501-05	Layer 2	A175515	Gray	Plaster Base Coat	Chrysotile <1%
501-06		A175516	Off-white,Tan	Drywall/Joint Compound	Chrysotile <1%
501-07		A175517	Off-white,Tan	Drywall/Joint Compound	Chrysotile <1%
501-08		A175518	Off-white,Tan	Textured Ceiling	Chrysotile 3%
501-09		A175519		Sample Not Analyzed per COC	
501-10		A175520		Sample Not Analyzed per COC	
501-11		A175521		Sample Not Analyzed per COC	
501-12		A175522		Sample Not Analyzed per COC	
501-13		A175523A	Off-white,Beige	Floor Tile	None Detected
501-13		A175523B	Yellow	Mastic	None Detected
501-14		A175524A	Off-white,Beige	Floor Tile	None Detected
501-14		A175524B	Yellow	Mastic	None Detected
501-15		A175525A	Black	Floor Tile	None Detected
501-15		A175525B	Yellow	Mastic	None Detected
501-16		A175526A	Black	Floor Tile	None Detected
501-16		A175526B	Yellow	Mastic	None Detected
501-17		A175527A	Red,Gray	Linoleum	None Detected
501-17		A175527B	Brown	Mastic	None Detected
501-18		A175528A	Red,Gray	Linoleum	None Detected
501-18		A175528B	Brown	Mastic	None Detected
501-19		A175529A	Green,Gray	Linoleum	None Detected
501-19		A175529B	Brown	Mastic	None Detected





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# Asbestos Report Summary

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**PROJECT:** City of Lowell Community Center,  
IHCH210085.00

**LAB CODE:** A2112344

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
501-20		A175530A	Green,Gray	Linoleum	None Detected
501-20		A175530B	Brown	Mastic	None Detected
501-21		A175531A	Brown,Off-white	Floor Tile	<b>Chrysotile 3%</b>
501-21		A175531B	Black	Mastic	<b>Chrysotile 3%</b>
501-22		A175532		Sample Not Analyzed per COC	
501-23		A175533A	Green,Gray	Linoleum	None Detected
501-23		A175533B	Brown	Mastic	None Detected
501-24		A175534A	Green,Gray	Linoleum	None Detected
501-24		A175534B	Brown	Mastic	None Detected
501-25		A175535A	Blue,Gray	Linoleum	None Detected
501-25		A175535B	Off-white,Gray	Mastic	None Detected
501-26		A175536A	Blue,Gray	Linoleum	None Detected
501-26		A175536B	Off-white,Gray	Mastic	None Detected
501-27		A175537	Brown,White	Ceiling Tile	None Detected
501-28		A175538	Brown,White	Ceiling Tile	None Detected
501-29		A175539	Brown,White	Ceiling Tile	None Detected
501-30		A175540	Brown,White	Ceiling Tile	None Detected
501-31		A175541	Off-white	Window Glaze	None Detected
501-32		A175542	Off-white	Window Glaze	None Detected
501-33		A175543	Gray,Off-white	Exterior Caulk	<b>Chrysotile 3%</b>
501-34		A175544		Sample Not Analyzed per COC	
501-35		A175545	Gray	HVAC Mastic	None Detected
501-36		A175546	Gray	HVAC Mastic	None Detected



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# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A2112344  
**Date Received:** 08-16-21  
**Date Analyzed:** 08-16-21  
**Date Reported:** 08-17-21

**Project:** City of Lowell Community Center, IHCH210085.00

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
501-01 Layer 1 A175511	Plaster Skim Coat	Heterogeneous	<1%	Cellulose	75%	Calc Carb	None Detected
		White			15%	Binder	
		Non-fibrous			10%	Paint	
		Bound					
501-01 Layer 2 A175511	Plaster Base Coat	Heterogeneous	2%	Cellulose	45%	Calc Carb	<1% Chrysotile
		Gray	<1%	Hair	43%	Silicates	
		Fibrous			10%	Binder	
		Bound					
501-02 Layer 1 A175512	Plaster Skim Coat	Heterogeneous	<1%	Cellulose	75%	Calc Carb	None Detected
		White			15%	Binder	
		Non-fibrous			10%	Paint	
		Bound					
501-02 Layer 2 A175512	Plaster Base Coat	Heterogeneous	2%	Cellulose	45%	Calc Carb	<1% Chrysotile
		Gray	<1%	Hair	43%	Silicates	
		Fibrous			10%	Binder	
		Bound					
501-03 Layer 1 A175513	Plaster Skim Coat	Heterogeneous	<1%	Cellulose	75%	Calc Carb	None Detected
		White			15%	Binder	
		Non-fibrous			10%	Paint	
		Bound					
501-03 Layer 2 A175513	Plaster Base Coat	Heterogeneous	2%	Cellulose	45%	Calc Carb	<1% Chrysotile
		Gray	<1%	Hair	43%	Silicates	
		Fibrous			10%	Binder	
		Bound					
501-04 Layer 1 A175514	Plaster Skim Coat	Heterogeneous	<1%	Cellulose	75%	Calc Carb	None Detected
		White			15%	Binder	
		Non-fibrous			10%	Paint	
		Bound					



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>501-04</b> Layer 2 A175514	Plaster Base Coat	Heterogeneous	2%	Cellulose	45%	Calc Carb	<b>&lt;1% Chrysotile</b>
		Gray	<1%	Hair	43%	Silicates	
		Fibrous			10%	Binder	
		Bound					
<b>501-05</b> Layer 1 A175515	Plaster Skim Coat	Heterogeneous	<1%	Cellulose	75%	Calc Carb	None Detected
		White			15%	Binder	
		Non-fibrous			10%	Paint	
		Bound					
<b>501-05</b> Layer 2 A175515	Plaster Base Coat	Heterogeneous	2%	Cellulose	45%	Calc Carb	<b>&lt;1% Chrysotile</b>
		Gray	<1%	Hair	43%	Silicates	
		Fibrous			10%	Binder	
		Bound					
<b>501-06</b> A175516	Drywall/Joint Compound	Heterogeneous	25%	Cellulose	60%	Gypsum	<b>&lt;1% Chrysotile</b>
		Off-white, Tan			10%	Calc Carb	
		Fibrous			5%	Paint	
		Bound					
Lab Notes: 2% chrysotile in joint compound only. Sample <1% chrysotile overall.							
<b>501-07</b> A175517	Drywall/Joint Compound	Heterogeneous	25%	Cellulose	60%	Gypsum	<b>&lt;1% Chrysotile</b>
		Off-white, Tan			10%	Calc Carb	
		Fibrous			5%	Paint	
		Bound					
Lab Notes: 2% chrysotile in joint compound only. Sample <1% chrysotile overall.							
<b>501-08</b> A175518	Textured Ceiling	Heterogeneous	<1%	Cellulose	75%	Calc Carb	<b>3% Chrysotile</b>
		Off-white, Tan			12%	Vermiculite	
		Fibrous			10%	Paint	
		Bound					
<b>501-09</b> A175519	Sample Not Analyzed per COC						
<b>501-10</b> A175520	Sample Not Analyzed per COC						



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## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
501-11 A175521	Sample Not Analyzed per COC					
501-12 A175522	Sample Not Analyzed per COC					
501-13 A175523A	Floor Tile	Homogeneous Off-white,Beige Non-fibrous Tightly Bound	<1%	Cellulose	100% Vinyl	None Detected
501-13 A175523B	Mastic	Homogeneous Yellow Non-fibrous Bound	<1%	Cellulose	100% Mastic	None Detected
501-14 A175524A	Floor Tile	Homogeneous Off-white,Beige Non-fibrous Tightly Bound	<1%	Cellulose	100% Vinyl	None Detected
501-14 A175524B	Mastic	Homogeneous Yellow Non-fibrous Bound	<1%	Cellulose	100% Mastic	None Detected
501-15 A175525A	Floor Tile	Homogeneous Black Non-fibrous Tightly Bound	<1%	Cellulose	100% Vinyl	None Detected
501-15 A175525B	Mastic	Homogeneous Yellow Non-fibrous Bound	<1%	Cellulose	100% Mastic	None Detected

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## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>501-16</b> A175526A	Floor Tile	Homogeneous Black Non-fibrous Tightly Bound	<1%	Cellulose	100%	Vinyl	None Detected
<b>501-16</b> A175526B	Mastic	Homogeneous Yellow Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
<b>501-17</b> A175527A	Linoleum	Heterogeneous Red,Gray Fibrous Bound	25% 15%	Cellulose Synthetic Fiber	50% 10%	Vinyl Binder	None Detected
<b>501-17</b> A175527B	Mastic	Homogeneous Brown Non-fibrous Bound	<1% <1%	Cellulose Synthetic Fiber	100%	Mastic	None Detected
<b>501-18</b> A175528A	Linoleum	Heterogeneous Red,Gray Fibrous Bound	25% 15%	Cellulose Synthetic Fiber	50% 10%	Vinyl Binder	None Detected
<b>501-18</b> A175528B	Mastic	Homogeneous Brown Non-fibrous Bound	<1% <1%	Cellulose Synthetic Fiber	100%	Mastic	None Detected
<b>501-19</b> A175529A	Linoleum	Heterogeneous Green,Gray Fibrous Bound	25% 15%	Cellulose Synthetic Fiber	50% 10%	Vinyl Binder	None Detected



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## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
<b>501-19</b> A175529B	Mastic	Homogeneous Brown Non-fibrous Bound	<1% <1%	Cellulose Synthetic Fiber	100% Mastic	None Detected
<b>501-20</b> A175530A	Linoleum	Heterogeneous Green,Gray Fibrous Bound	25% 15%	Cellulose Synthetic Fiber	50% 10% Vinyl Binder	None Detected
<b>501-20</b> A175530B	Mastic	Homogeneous Brown Non-fibrous Bound	<1% <1%	Cellulose Synthetic Fiber	100% Mastic	None Detected
<b>501-21</b> A175531A	Floor Tile	Homogeneous Brown,Off-white Fibrous Tightly Bound	<1%	Cellulose	97% Vinyl	<b>3% Chrysotile</b>
<b>501-21</b> A175531B	Mastic	Homogeneous Black Fibrous Bound	2%	Cellulose	95% Tar	<b>3% Chrysotile</b>
<b>501-22</b> A175532	Sample Not Analyzed per COC					
<b>501-23</b> A175533A	Linoleum	Heterogeneous Green,Gray Fibrous Bound	25% 15%	Cellulose Synthetic Fiber	50% 10% Vinyl Binder	None Detected
<b>501-23</b> A175533B	Mastic	Homogeneous Brown Non-fibrous Bound	<1% <1%	Cellulose Synthetic Fiber	100% Mastic	None Detected



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## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Non-Fibrous			
501-24 A175534A	Linoleum	Heterogeneous Green,Gray Fibrous Bound	25%	Cellulose	50%	Vinyl	None Detected
			15%	Synthetic Fiber	10%	Binder	
501-24 A175534B	Mastic	Homogeneous Brown Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
			<1%	Synthetic Fiber			
501-25 A175535A	Linoleum	Heterogeneous Blue,Gray Fibrous Bound	25%	Cellulose	50%	Vinyl	None Detected
			15%	Synthetic Fiber	10%	Binder	
501-25 A175535B	Mastic	Homogeneous Off-white,Gray Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
			<1%	Synthetic Fiber			
501-26 A175536A	Linoleum	Heterogeneous Blue,Gray Fibrous Bound	25%	Cellulose	50%	Vinyl	None Detected
			15%	Synthetic Fiber	10%	Binder	
501-26 A175536B	Mastic	Homogeneous Off-white,Gray Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
			<1%	Synthetic Fiber			
501-27 A175537	Ceiling Tile	Heterogeneous Brown,White Fibrous Bound	78%	Cellulose	20%	Binder	None Detected
					2%	Paint	

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## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Cellulose	Non-Fibrous		
<b>501-28</b> A175538	Ceiling Tile	Heterogeneous Brown,White Fibrous Bound	78%	Cellulose	20%	Binder Paint	None Detected
<b>501-29</b> A175539	Ceiling Tile	Heterogeneous Brown,White Fibrous Bound	78%	Cellulose	20%	Binder Paint	None Detected
<b>501-30</b> A175540	Ceiling Tile	Heterogeneous Brown,White Fibrous Bound	78%	Cellulose	20%	Binder Paint	None Detected
<b>501-31</b> A175541	Window Glaze	Heterogeneous Off-white Non-fibrous Bound	<1%	Cellulose	65%	Calc Carb Binder Paint	None Detected
<b>501-32</b> A175542	Window Glaze	Heterogeneous Off-white Non-fibrous Bound	<1%	Cellulose	65%	Calc Carb Binder Paint	None Detected
<b>501-33</b> A175543	Exterior Caulk	Heterogeneous Gray,Off-white Fibrous Bound	<1%	Cellulose	70%	Calc Carb Binder Paint	<b>3% Chrysotile</b>
<b>501-34</b> A175544	Sample Not Analyzed per COC						
<b>501-35</b> A175545	HVAC Mastic	Heterogeneous Gray Fibrous Bound	5%	Cellulose	85%	Mastic Binder	None Detected



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## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID	Lab	Lab	NON-ASBESTOS COMPONENTS				ASBESTOS
Lab ID	Description	Attributes	Fibrous	Non-Fibrous			%
501-36 A175546	HVAC Mastic	Heterogeneous Gray Fibrous Bound	5%	Cellulose	85%	Mastic	None Detected
					10%	Binder	

---

---

**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.

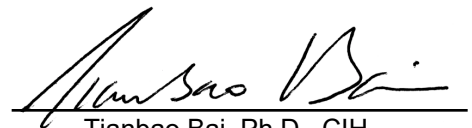
Information provided by customer includes customer sample ID and sample description.

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



Scott Minyard

**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:	A2112344
CEI Lab I.D. Range:	A175511- A175546

36

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Lee Clark
Company: The EI Group	Email / Tel: lclark@ei1.com
Address: 2101 Gateway Centre Blvd. Suite 200	Project Name: City of Lowell Community Center
	Project ID#: IHCH210085.00
Email: Lclark@ei1.com ; knece@ei1.com	PO #:
Tel: 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
PLM BULK	CARB 435	<input type="checkbox"/>	<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"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<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
L B Clark	8/16/2021	EBB	8/16 11:20

Samples will be disposed of 30 days after analysis

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CEI

# SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: The EI Group, Inc.	Job Contact: Lclark
Project Name: City of Lowell Community Center	
Project ID #: IHCH210085.00	Tel:

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
			PLM	TEM
501-01	Plaster - Kitchen Closet		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-02	Plaster - Kitchen Closet		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-03	Plaster - 2nd Floor		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-04	Plaster - 2nd Floor		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-05	Plaster - 2nd Floor		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-06	Drywall w/ Joint compound 1st floor		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-07	Drywall w/ Joint compound 2nd floor		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-08	Textured Ceiling - 2nd Floor Hallway		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-09	Textured Ceiling - 2nd Floor Hallway		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-10	Textured Ceiling - 2nd Floor Hallway		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-11	Textured Ceiling - 1st Floor Hallway		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-12	Textured Ceiling - 1st Floor Hallway		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-13	12x12 White Floor Tile - Kitchen		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-14	12x12 White Floor Tile - Kitchen		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-15	12x12 Black Floor Tile - Kitchen		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-16	12x12 Black Floor Tile - Kitchen		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-17	Red Brick Pattern Linoleum		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-18	Red Brick Pattern Linoleum		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-19	Green Linoleum		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-20	Green Linoleum		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-21	12x12 Brown/White Floor Tile		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-22	12x12 Brown/White Floor Tile		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-23	Green linoleum 2nd Floor		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-24	Green linoleum 2nd Floor		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-25	Blue Linoleum		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-26	Blue Linoleum		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-27	1x1 Ceiling Tile		<input checked="" type="checkbox"/>	<input type="checkbox"/>
501-28	1x1 Ceiling Tile		<input checked="" type="checkbox"/>	<input type="checkbox"/>

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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

April 20, 2021

Lee B Clark
111 O'Hara Ct
Cary, NC 27513

Dear Mr. Clark:

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) AIR MONITOR. Your assigned North Carolina accreditation number is 80665, 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 Air Monitor accreditation will expire on JANUARY 31, 2022. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Air Monitor after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to January 31, 2022. If you should continue to perform asbestos management activities as a(n) Air Monitor without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.



Lee B Clark
111 O'Hara Ct
Cary, NC 27513

132084

North Carolina Asbestos Accreditation

Table with columns: EXPIRATION (01-31-2022), DOB (01-31-1967), SEX (M), HT (5'10"), WT (180), CLASS, #, EXP. Rows include AIR MONITOR (80665, 01-22) and INSPECTOR (11931, 01-22).

Sincerely,

Ed Norman (handwritten signature)

Ed Norman
Program Manager
Health Hazards Control Unit

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

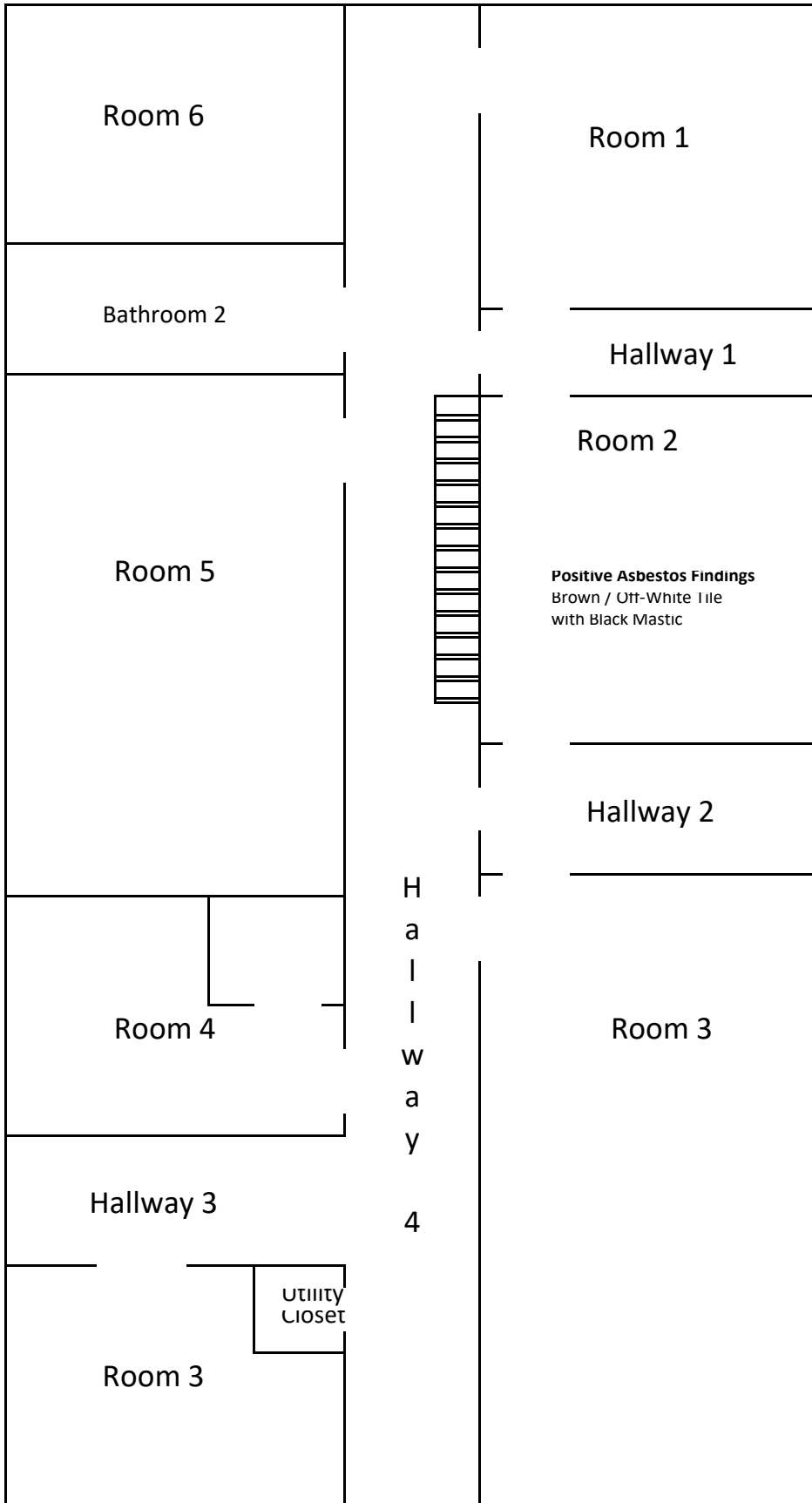
LOCATION: 5505 Six Forks Road, Building 1, Raleigh, NC 27609
MAILING ADDRESS: 1912 Mail Service Center, Raleigh, NC 27699-1912
www.ncdhhs.gov . TEL: 919-707-5950 . FAX: 919-870-4808

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

## APPENDIX C: SAMPLE LOCATION MAPS

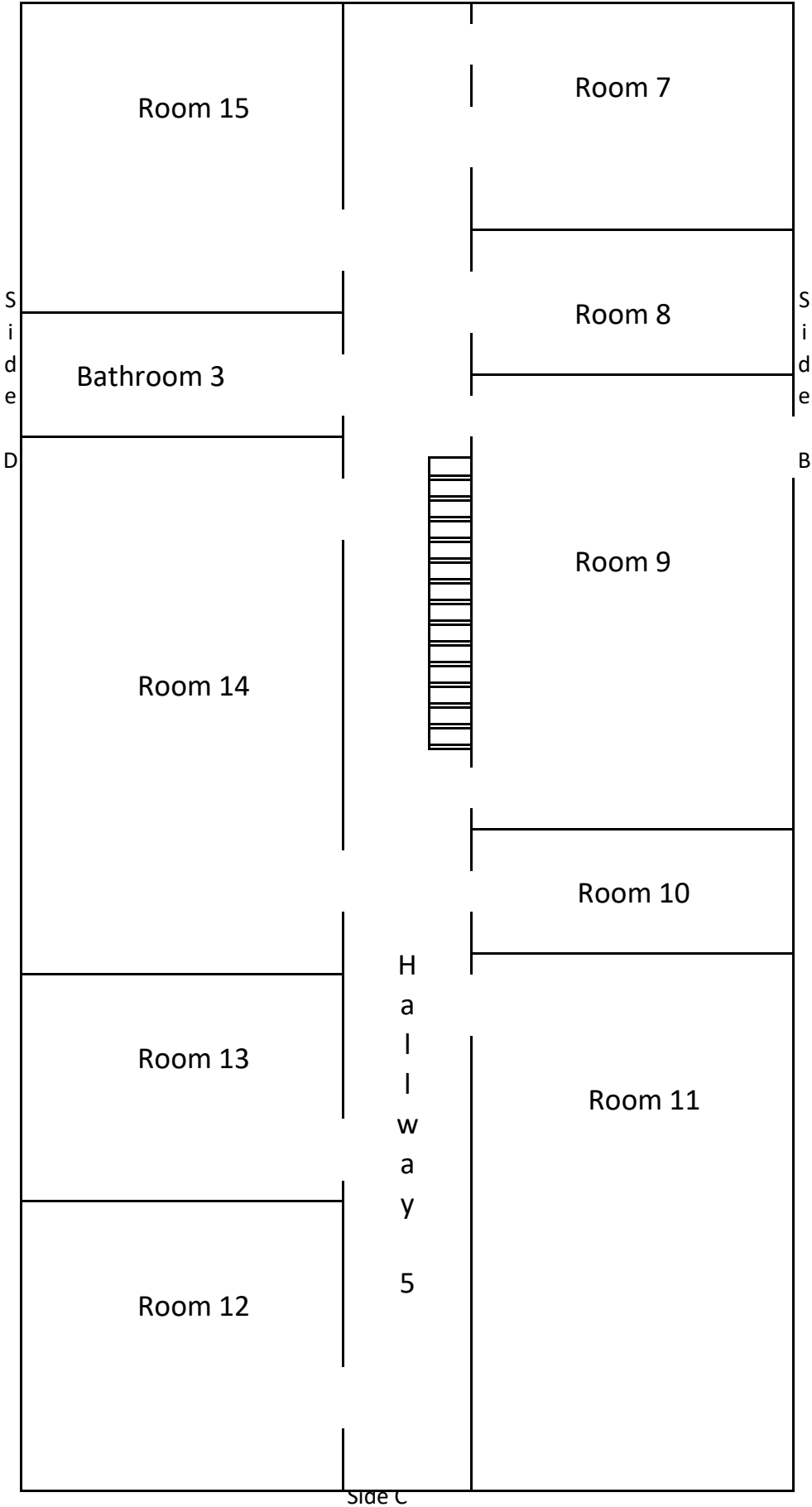


Side A First Floor



Side C

Side A Second Floor



S  
i  
d  
e  
D

S  
i  
d  
e  
B

H  
a  
l  
l  
w  
a  
y  
5

Side C

## APPENDIX D: PHOTOGRAPHS

City of Lowell Asbestos Positive Photo Log



Exterior Side A



Exterior Side B



Exterior Side C



Exterior Side D



Textured Ceiling



Drywall with Joint Compound

City of Lowell Asbestos Positive Photo Log



Brown / Off-White Floor Tile w/ Black Mastic



Exterior Caulk