

ASBESTOS SURVEY



Old Detective's Building Wadesboro, NC

PREPARED FOR:

Alex Sewell
Town Manager
Town of Wadesboro
124 E. Wade Street
Wadesboro, NC

Date of Inspection
September 28, 2016

Date of Report
October 3, 2016

INSPECTED & PREPARED BY:

Kathryn Hubicki
NC Asbestos License
#110147
Get The Lead Out, LLC
3717 Latrobe Drive, Unit 760
Charlotte, North Carolina
28211
704-376-3594

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Asbestos Survey Report

Introduction

Scope of the Investigation

This report documents the asbestos survey of the Old Detective's Building in Wadesboro, NC .It was conducted on September 28, 2016 by Kathryn Hubicki (North Carolina Asbestos Inspector certification number 110147) toknowledge about the presence of asbestos within the building prior to demolition and sampling has been conducted in order to meet NESHAP requirements.

Background

This building is a one-story structure. The exterior siding is wood over foam board over concrete. The concrete foundation is exposed. The interior finishes consisted of wood paneled walls, drywall ceilings, trowel-applied ceiling texture, cove baseboard, and carpet and vinyl flooring. The roof is aluminum sheet over roofing felt on plywood on the deck and over the concrete parapet. The wood paneling was installed directly on the wood studs.

Investigation

The structure was visually inspected for suspected asbestos containing materials (ACM) by a North Carolina accredited inspector. A copy of the inspector's accreditation certificate is included in Appendix A. Bulk samples of all visible suspect ACM's were collected. This report details ACM as identified at the time of inspection only.

CEI analyzed the bulk samples. The laboratory is accredited by the National Voluntary Laboratory Accredited Program (NVLAP Accreditation sponsored by the National Institute of Standards and Technology (NIST)). A copy of the accreditation certificate is included in Appendix A. The samples were analyzed by the accepted method of polarized light microscopy (PLM) using EPA's "Method for the Determination of Asbestos In Bulk Building Materials", EPA/600/R-93/116.

Laboratory results indicate that ASBESTOS WAS DETECTED.

In compliance with NESHAP regulations, material is considered an Asbestos Containing Material (ACM) when it contains greater than one percent asbestos. Likewise, in this report, any material containing concentrations greater than one percent asbestos will be considered "positive". Occasionally, materials which contain less than one percent asbestos or not sampled are assumed to be a "positive" asbestos containing material at the discretion of the inspector. A narrative discussion of the AHERA ACM types (i.e., thermal systems insulation, miscellaneous and surfacing materials) found in the structure is included in this report where relevant. Bulk sample information including estimated quantities of individual asbestos containing materials and material characterization of asbestos containing materials appears on Table 1.

Conclusions

Black Sealant: On the roof, black sealant has been laid over breaks in the metal roofing – this includes seams, around the vent hood and on the anchors where the metal lines are connected to the roofing parapet. This sealant has been found to contain 10% Chrysotile. There was approximately 8 linear feet of this sealant found on the roof.

Recommendations

All ACM in quantities equal to or greater than NESHAP reportable quantities must be removed in accordance with Federal, State and local regulation prior to any renovation or renovation where it may be disturbed.

Asbestos containing materials that are damaged, or not intact, as identified in the “Asbestos Tables” should be repaired or rendered “intact” in order to reduce the risk of asbestos exposure to unprotected personnel.

Although not required by EPA NESHAP rules, removal of less than reportable quantities of ACM prior to renovation may be more cost effective than allowing it to remain in the building. Disposal of building debris that contains any asbestos may be difficult and prohibitively expensive.

All work involving asbestos should be conducted by properly trained and credentialed personnel in full compliance with applicable environmental, health and safety regulations.

The inspector did not impact the roof because he does not was to void the roof warranty. If the roof needs to be replaced, the roof should be sampled for asbestos to determine if the original roof is under the new roof.

The small shed in the rear of the building was inaccessible to the inspector during the inspection. When accessed, it should be checked and sampled by an asbestos inspector.

Limitations

As is the case with any asbestos inspection, materials that were not readily apparent or were located in concealed locations may not have been identified. If any material that is suspected to contain asbestos, and was not included in this report as a material identified and tested, is discovered, it should be evaluated for asbestos content before it is disturbed.

Although Polarized Light Microscopy (PLM)/Dispersion Staining (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. EPA recommends analyzing such materials (floor tiles, mastics and asphalt roofing) using Transmission Electron Microscopy (TEM) when PLM analysis does not detect asbestos in quantities greater than 1%.

Current North Carolina and EPA regulations do not require this additional analysis and the decision to do so is left with the client.

This report is not intended for use as an asbestos removal specification. It is not within the scope of this work to describe all appropriate precautions, safeguards and regulations relating to asbestos.

Sole Use Statement

This report is provided for the sole use of the Town of Wadesboro. Reliance on this report by any third parties will be at such party's sole risk, and Get The Lead Out disclaims liability for any use of or reliance on this report by third parties. All portions of this report, including attachments and figures, are interrelated and integral to this report and should not be transmitted independent of each other.

**TABLE 1
Asbestos Inspection Summary Table**

The following table details all of the materials that were tested and states whether they were found to be Asbestos Containing Materials (ACM) as defined under the EPA NESHAP rules because they contain more than 1% asbestos or if no asbestos was detected. See the attached data sheets for more descriptions and sample locations.

MATERIAL			CHARACTERISTICS			ASSESSMENT	
Sample No. / Type	Description	Location / Homogenous Area	% Asbestos Yes/No/ Presumed	Quantity (If ACM)	Friable / Non-Friable	Condition	Regulatory Category
Old Detective's Building -Wadesboro, NC							
1 / SURF	Ceiling Texture	Room 1 / Ceilings Throughout	NAD	N/A	Friable	Damaged	N/A
2 / SURF	Ceiling Texture	Room 2 / Ceilings Throughout	NAD	N/A	Friable	Damaged	N/A
3 / SURF & MISC	Ceiling Texture & Wallboard System	Bath 3 / Ceilings Throughout	NAD	N/A	Friable	Damaged	N/A
4 / SURF & MISC	Ceiling Texture & Wallboard System	Room 1 / Ceilings Throughout	NAD	N/A	Friable	Damaged	N/A
5 / MISC	3" Brown Cove Baseboard	Rooms 2 & 3	NAD	N/A	Non-Friable	Good	N/A
5 / MISC	Mastic - 3" Brown Cove Baseboard	Rooms 2 & 3	NAD	N/A	Non-Friable	Good	N/A
6 / MISC	3" Brown Cove Baseboard	Rooms 2 & 3	NAD	N/A	Non-Friable	Good	N/A
6 / MISC	Mastic - 3" Brown Cove Baseboard	Rooms 2 & 3	NAD	N/A	Non-Friable	Good	N/A
7 / MISC	Stone Vinyl Sheet Flooring	Room 2	NAD	N/A	Non-Friable	Good	N/A
8 / MISC	Stone Vinyl Sheet Flooring	Room 2	NAD	N/A	Non-Friable	Good	N/A

MATERIAL			CHARACTERISTICS			ASSESSMENT	
Sample No. / Type	Description	Location / Homogenous Area	% Asbestos Yes/No/ Presumed	Quantity (If ACM)	Friable / Non-Friable	Condition	Regulatory Category
Old Detective's Building -Wadesboro, NC							
9 / MISC	Green Pattern Vinyl Sheet Flooring	Bath 3	NAD	N/A	Non-Friable	Damaged	N/A
9 / MISC	Backing - Green Pattern Vinyl Sheet Flooring	Bath 3	NAD	N/A	Non-Friable	Damaged	N/A
10 / MISC	Green Pattern Vinyl Sheet Flooring	Bath 3	NAD	N/A	Non-Friable	Damaged	N/A
10 / MISC	Backing - Green Pattern Vinyl Sheet Flooring	Bath 3	NAD	N/A	Non-Friable	Damaged	N/A
11 / MISC	Roofing Felt	Roof beneath Metal	NAD	N/A	Non-Friable	Good	N/A
12 / MISC	Roofing Felt	Roof beneath Metal	NAD	N/A	Non-Friable	Good	N/A
13 / MISC	Black Sealant	Intrusions on Roof	10% Chrysotile	8 LF	Non-Friable	Good	Category I Non-Friable ACM
14 / MISC	Black Sealant	Intrusions on Roof	Positive Stop – Not Analyzed	Same as Sample 13	Non-Friable	Good	Category I Non-Friable ACM
15 / MISC	Gray Sealant	Nail Holes on Roof	NAD	N/A	Non-Friable	Good	N/A

LF = Linear Feet
SF = Square Feet

Appendix A

Licenses and Certifications



North Carolina Department of Health and Human Services
Division of Public Health

Pat McCrory
Governor

Richard O. Brajer
Secretary

Daniel Staley
Acting Division Director

October 26, 2015

Kathryn Hubicki
2121 Commonwealth Ave Ste 202
Charlotte, NC 28205

Dear Ms. Hubicki:

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) MANAGEMENT PLANNER. Your assigned North Carolina accreditation number is 20990, 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 Management Planner accreditation will expire on OCTOBER 31, 2016. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Management Planner after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to October 31, 2016. If you should continue to perform asbestos management activities as a(n) Management Planner 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



North Carolina
Asbestos Accreditation

EXPIRATION			
10-31-2016			
DOB	SEX	HT	WT
06-16-1981	F	5'5"	185
CLASS	#	EXP	
INSPECTOR	12783	10-16	
MGMT PLANNER	20990	10-16	

Kathryn Hubicki
2121 Commonwealth Ave St
Charlotte, NC 28205

109584

www.ncdhhs.gov • www.publichealth.nc.gov

Tel 919-707-5950 • Fax 919-870-4808

Location: 5505 Six Forks Road • Raleigh, NC 27609

Mailing Address: 1912 Mail Service Center • Raleigh, NC 27699-1912

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SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CEI Labs, Inc.
107 New Edition Court
Cary, NC 27511
Dr. Tianbao Bai
Phone: 919-481-1413 Fax: 919-481-1442
Email: bai@ceilabs.com
http://www.ceilabs.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101768-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.


For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101768-0

CEI Labs, Inc.
Cary, NC

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2016-04-01 through 2017-03-31

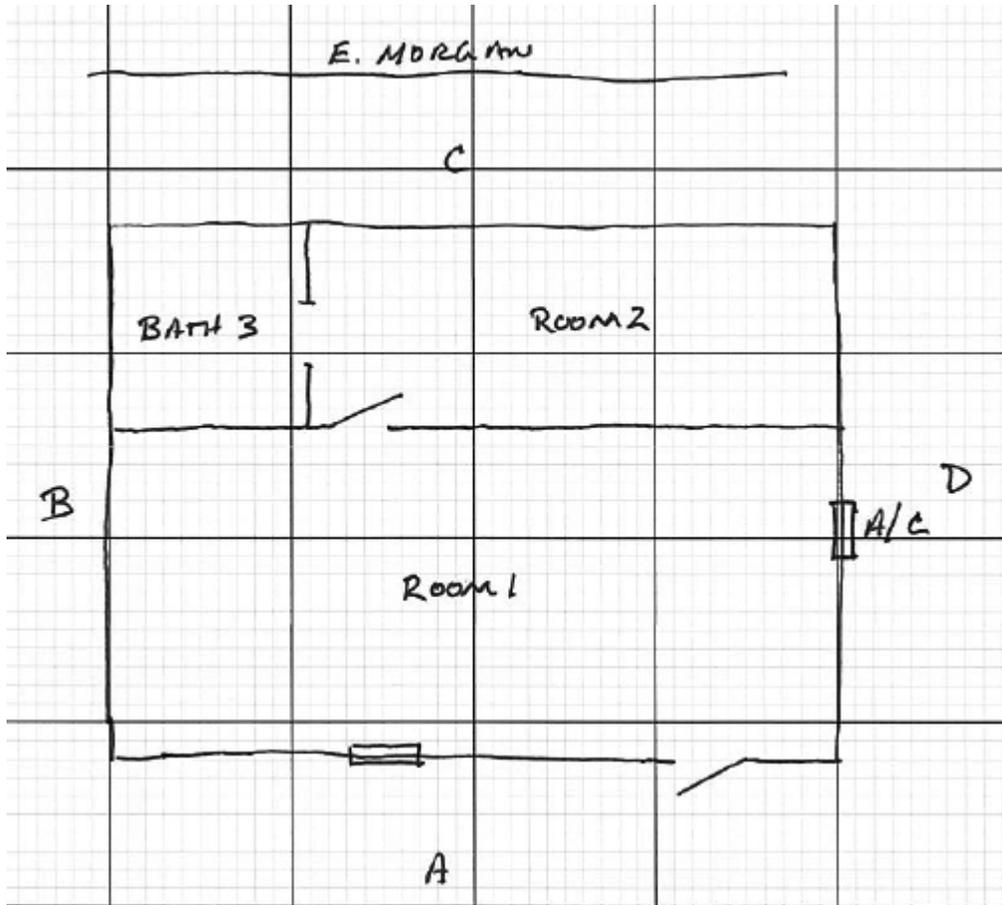
Effective Dates



A handwritten signature in black ink, reading "David F. Alderman", is written over a horizontal line.

For the National Voluntary Laboratory Accreditation Program

Appendix B Site Plan



Appendix C Photographs

Non-ACM Ceiling Texture



Non-ACM Green & Stone Vinyl Sheet



Roof



ACM Black Sealant (around vent)



ACM Black Sealant



Beneath Metal Roofing on Deck



Beneath Metal Roofing on Parapet



Appendix C

Analysis Results and Chain of Custody



September 30, 2016

Get The Lead Out, LLC
3717 Latrobe Drive Suite 760
Charlotte, NC 28211

CLIENT PROJECT: Old Detective's Building, Wadesboro
CEI LAB CODE: A16-8531

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on September 29, 2016. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

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

Tianbao Bai, Ph.D., CIH
Laboratory Director





ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Get The Lead Out, LLC

CLIENT PROJECT: Old Detective's Building, Wadesboro

CEI LAB CODE: A16-8531

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

REPORT DATE: 09/30/16

TOTAL SAMPLES ANALYZED: 14

SAMPLES >1% ASBESTOS: 1

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Old Detective's Building, Wadesboro

CEI LAB CODE: A16-8531

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1		A2237692	White	Ceiling Texture	None Detected
2		A2237693	White	Ceiling Texture	None Detected
3		A2237694	White	Wallboard System	None Detected
4		A2237695	White	Wallboard System	None Detected
5		A2237696A	Brown	Cove Baseboard	None Detected
		A2237696B	Brown	Mastic	None Detected
6		A2237697A	Brown	Cove Baseboard	None Detected
		A2237697B	Brown	Mastic	None Detected
7		A2237698	Stone	Vinyl Sheet	None Detected
8		A2237699	Stone	Vinyl Sheet	None Detected
9	Layer 1	A2237700	Green	Vinyl Sheet	None Detected
	Layer 2	A2237700	Brown	Backing	None Detected
10	Layer 1	A2237701	Green	Vinyl Sheet	None Detected
	Layer 2	A2237701	Brown	Backing	None Detected
11		A2237702	Brown	Roofing Felt	None Detected
12		A2237703	Brown	Roofing Felt	None Detected
13		A2237704	White,Black	Paint And Black Sealant	Chrysotile 10%
14		A2237705		Sample Not Analyzed per COC	
15		A2237706	Gray	Sealant	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Get The Lead Out, LLC
 3717 Latrobe Drive Suite 760
 Charlotte, NC 28211

CEI Lab Code: A16-8531
Date Received: 09-29-16
Date Analyzed: 09-30-16
Date Reported: 09-30-16

Project: Old Detective's Building, Wadesboro

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %		
			Fibrous	Non-Fibrous			
1 A2237692	Ceiling Texture	Homogeneous	60%	Binder	None Detected		
		White Non-fibrous Bound	40%	Calc Carb			
2 A2237693	Ceiling Texture	Homogeneous	60%	Binder	None Detected		
		White Non-fibrous Bound	40%	Calc Carb			
3 A2237694	Wallboard System	Heterogeneous	15%	Cellulose	10%	Binder	None Detected
		White Fibrous Bound			5%	Calc Carb	
4 A2237695	Wallboard System	Heterogeneous	15%	Cellulose	10%	Binder	None Detected
		White Fibrous Bound			5%	Calc Carb	
5 A2237696A	Cove Baseboard	Heterogeneous			100%	Vinyl	None Detected
		Brown Non-fibrous Bound					
A2237696B	Mastic	Heterogeneous			100%	Mastic	None Detected
		Brown Non-fibrous Bound					
6 A2237697A	Cove Baseboard	Heterogeneous			100%	Vinyl	None Detected
		Brown Non-fibrous Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Get The Lead Out, LLC
 3717 Latrobe Drive Suite 760
 Charlotte, NC 28211

CEI Lab Code: A16-8531
Date Received: 09-29-16
Date Analyzed: 09-30-16
Date Reported: 09-30-16

Project: Old Detective's Building, Wadesboro

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
A2237697B	Mastic	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
7 A2237698	Vinyl Sheet	Heterogeneous Stone Fibrous Bound	25%	Cellulose	50%	Vinyl Binder	None Detected
8 A2237699	Vinyl Sheet	Heterogeneous Stone Fibrous Bound	25%	Cellulose	50%	Vinyl Binder	None Detected
9 Layer 1 A2237700	Vinyl Sheet	Heterogeneous Green Fibrous Bound	10%	Cellulose	90%	Vinyl	None Detected
Layer 2 A2237700	Backing	Heterogeneous Brown Fibrous Loosely Bound	75% 10%	Cellulose Synthetic Fiber	15%	Binder	None Detected
10 Layer 1 A2237701	Vinyl Sheet	Heterogeneous Green Fibrous Bound	10%	Cellulose	90%	Vinyl	None Detected
Layer 2 A2237701	Backing	Heterogeneous Brown Fibrous Loosely Bound	75% 10%	Cellulose Synthetic Fiber	15%	Binder	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Get The Lead Out, LLC
 3717 Latrobe Drive Suite 760
 Charlotte, NC 28211

CEI Lab Code: A16-8531
Date Received: 09-29-16
Date Analyzed: 09-30-16
Date Reported: 09-30-16

Project: Old Detective's Building, Wadesboro

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
11 A2237702	Roofing Felt	Heterogeneous Brown Fibrous Loosely Bound	95%	Cellulose	5%	Binder	None Detected
12 A2237703	Roofing Felt	Heterogeneous Brown Fibrous Loosely Bound	95%	Cellulose	5%	Binder	None Detected
13 A2237704	Paint And Black Sealant	Heterogeneous White,Black Fibrous Bound			10%	Paint	10% Chrysotile
14 A2237705	Sample Not Analyzed per COC						
15 A2237706	Sealant	Heterogeneous Gray Non-fibrous Bound			5%	Paint	None Detected
					95%	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

LIMIT OF DETECTION: <1% by visual estimation

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.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs 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. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: 
Greg Ruff

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





ASBESTOS CHAIN OF CUSTODY

Lab Use Only
 CEI Lab Code: **15**
A16-8531
 CEI Lab ID Range:
A223 7692-A223706

Company: Get the Lead Out, LLC	Office Phone: 704-376-3594
Address: 3717 Latrobe Drive, Unit 760	Cell Phone:
City, State, ZIP: Charlotte, NC 28211	Fax: 704-376-3593
Sampling Contact: Kathryn Hubicki	Email: koh@gettheleadout.biz sandra@gettheleadout.biz

Project Name: Old Detective's Building, Wadesboro	
Sampler Name and License Number: Kathryn Hubicki #12783	
Date Collected: 9/28/2016	State Collected: NC

Client Number 26521

Analysis Type Requested:

Asbestos Analysis		TEM Analysis	
<input checked="" type="checkbox"/> PLM Bulk	<input type="checkbox"/> PLM 400 Point Count	<input type="checkbox"/> TEM Chatfield	
<input type="checkbox"/> PLM 1000 Point Count	<input type="checkbox"/> PLM Gravimetric Point Count		
<input type="checkbox"/> PCM Air Cassette			
<input type="checkbox"/> Other Analysis Requested _____			

Turn Around Time Requested:

<input type="checkbox"/> Same Day	<input type="checkbox"/> 3 Days
<input checked="" type="checkbox"/> 1 Day	<input type="checkbox"/> 4 Days
<input type="checkbox"/> 2 Days	<input type="checkbox"/> 5 Days

Sample Number	Material Description / Location Sampled	Homogeneous Areas	Quantity	Condition	Friability (F/NF)
1	Trowel-Applied Ceiling Texture / Room 1 Ceiling	Ceilings Throughout	475 SF	Damaged	F
2	Trowel-Applied Ceiling Texture / Room 2 Ceiling	Ceilings Throughout	475 SF	Damaged	F
3	Wallboard System / Bath 3 Ceiling	Ceilings Throughout	475 SF	Damaged	F
4	Wallboard System / Room 1 Ceiling	Ceilings Throughout	475 SF	Damaged	F
5	3" Brown Cove Baseboard / Room 2	Rooms 2 & 3	50 LF	Good	NF
6	3" Brown Cove Baseboard / Room 2	Rooms 2 & 3	50 LF	Good	NF
7	Stone Vinyl Sheet / Room 2	Room 2 Flooring	60 SF	Good	NF
8	Stone Vinyl Sheet / Room 2	Room 2 Flooring	60 SF	Good	NF
9	Green Pattern Vinyl Sheet & Backing / Bath 3	Bath 3 Flooring	25 SF	Damaged	NF
10	Green Pattern Vinyl Sheet & Backing / Bath 3	Bath 3 Flooring	25 SF	Damaged	NF

Special Instructions: Positive Stop Methodology Requested - from bottom layer up.

Relinquished By:	Date	Time	Received By:	Date	Time
<i>Kathryn Hubicki</i>	9/28/16	1405	<i>CS</i>	9/29	10:00

*Samples will be retained for 30 days after analysis, unless otherwise requested.

Accept Samples

Reject Samples

