

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-22-205-041
House No:	1017 S Holmes St, Lansing, MI 48912
Date Inspected:	12/18/2017
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information			
No. Stories	1	Garage	Detached
Square Footage	912 SF	Garage Square Footage	378 SF
Basement Square Footage	792 SF	Garage Siding	Wood
Siding	Vinyl	Garage Color	Light Blue
Color	Light Blue	Garage Shingles	Asphalt
Roof Shingles	Asphalt	Electric (Gone)	Connected
Asbestos present	No	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-205-041
House No. 1017 S Holmes St, Lansing, MI 48912
Date Inspected: 12/18/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Tank	1	Room 9
Battery	1	Room 9
Thermostats	1	Room 1

TIRE(s) REPORT

Material	Quantity & Units	Location
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None observed above household quantities		
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Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-22-205-041
House No.	1017 S Holmes St, Lansing, MI 48912
Date Inspected:	12/18/2017

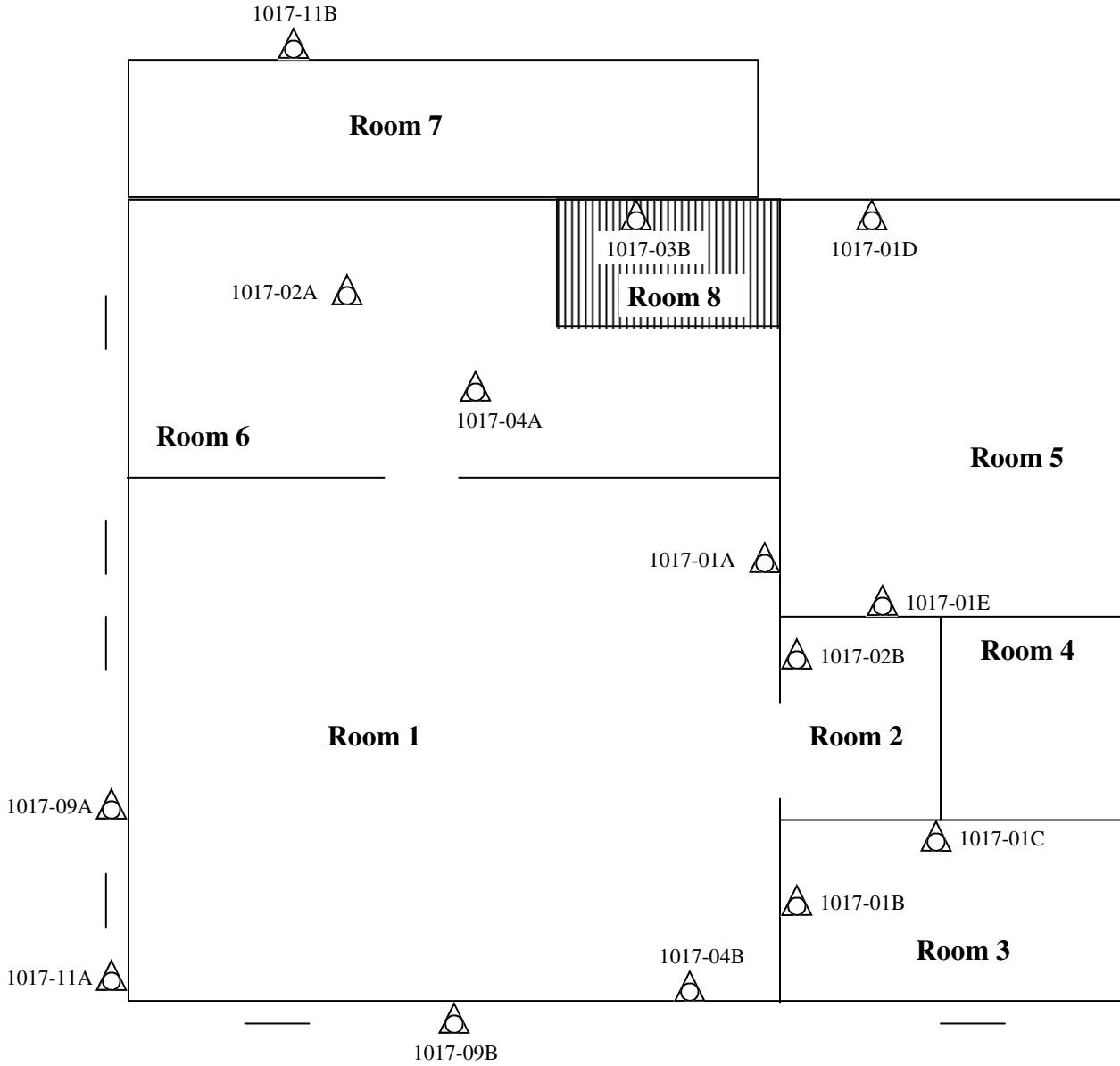
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS


Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Plaster, grey with skim	Throughout	2400 SF	No
2	NF	Drywall, white	Room 2, 6	300 SF	No
3	F	Blown-in-insulation, brown	Room 8, Attic	832 SF	No
4	NF	Linoleum, cream	Room 1, 4, 6	477 SF	No
5	NF	Cinderblock, grey	Room 9, Exterior (house)	1040 SF	No
6	NF	Mortar, grey	Room 9, Exterior (house)	700 SF	No
7	NF	Concrete floor, grey	Room 9	792 SF	No
8	NF	Stack cement, grey	Room 9	60 SF	No
9	NF	House wrap, brown	Exterior (house)	2480 SF	No
10	NF	Electrical panel backing, brown	Room 9	1 SF	No
11	NF	Shingle, black	Exterior (house)	2600 SF	No
12	NF	Shingle, black	Exterior (garage)	400 SF	No
13	NF	Cement, grey	Room 10, 11	378 SF	No

Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

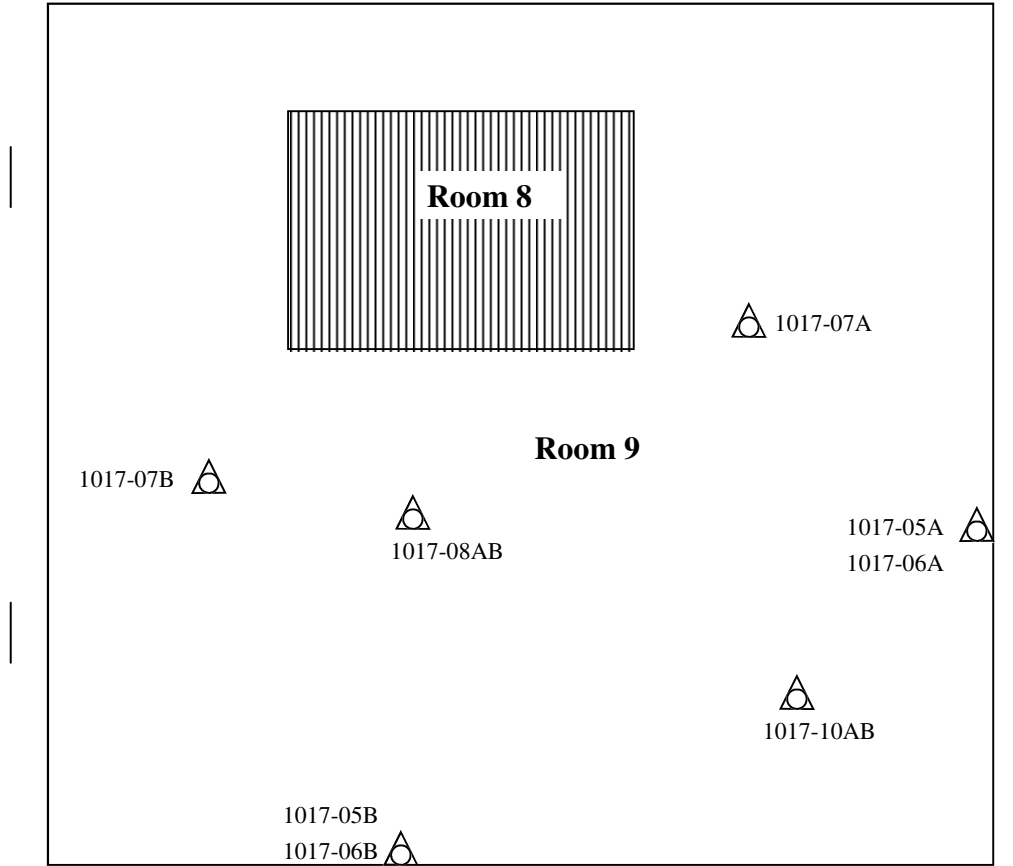



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Basement

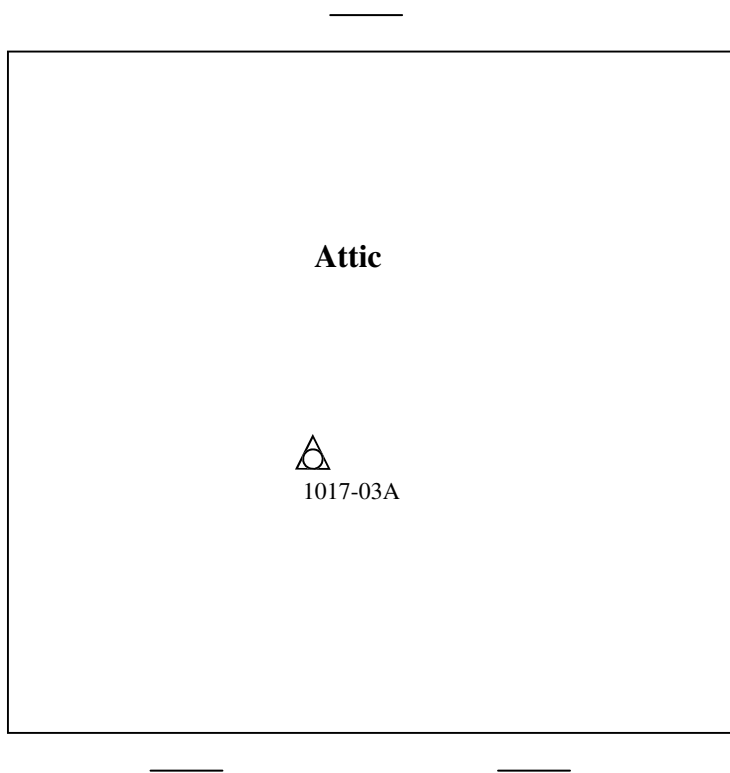
33-01-01-22-205-041
1017 S Holmes St, Lansing, MI 48912
12/18/2017



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Ingham County Land Bank
200413

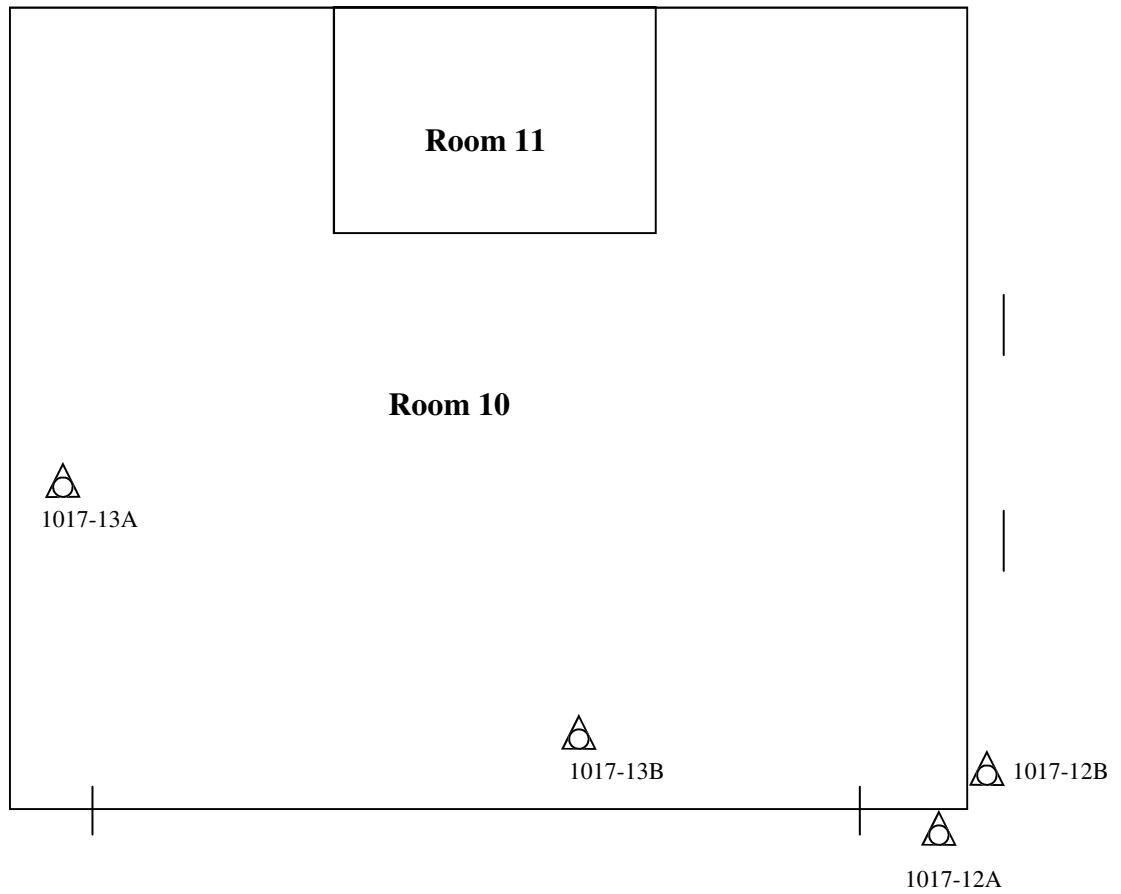


 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Garage

33-01-01-22-205-041
1017 S Holmes St, Lansing, MI 48912
12/18/2017



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Ingham County Land Bank
200413

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-22-205-041
House No. 1017 S Holmes St, Lansing, MI 48912
Date Inspected: 12/18/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-01-22-205-041
House No.	1017 S Holmes St, Lansing, MI 48912
Date Inspected:	12/18/2017



Garage

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-22-205-041
House No. 1017 S Holmes St, Lansing, MI 48912
Date Inspected: 12/18/2017



Hot Water Tank



Battery



Thermostats

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Project Location :
1017 S Holmes St, Lansing, MI

Attention :

Client Project : N/A

ETC Job : 200413
Report Date : 12/20/2017

Login #	Sample ID	Work Requested	Completed
640712	01A	Asbestos Analysis	12/20/2017
640713	01B	Asbestos Analysis	12/20/2017
640714	01C	Asbestos Analysis	12/20/2017
640715	01D	Asbestos Analysis	12/20/2017
640716	01E	Asbestos Analysis	12/20/2017
640717	02A	Asbestos Analysis	12/20/2017
640718	02B	Asbestos Analysis	12/20/2017
640719	03A	Asbestos Analysis	12/20/2017
640720	03B	Asbestos Analysis	12/20/2017
640721	04A	Asbestos Analysis	12/20/2017
640722	04B	Asbestos Analysis	12/20/2017
640723	05A	Asbestos Analysis	12/20/2017
640724	05B	Asbestos Analysis	12/20/2017
640725	06A	Asbestos Analysis	12/20/2017
640726	06B	Asbestos Analysis	12/20/2017
640727	07A	Asbestos Analysis	12/20/2017
640728	07B	Asbestos Analysis	12/20/2017
640729	08A	Asbestos Analysis	12/20/2017
640730	08B	Asbestos Analysis	12/20/2017
640731	09A	Asbestos Analysis	12/20/2017

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Login #	Sample ID	Work Requested	Completed
640732	09B	Asbestos Analysis	12/20/2017
640733	10A	Asbestos Analysis	12/20/2017
640734	10B	Asbestos Analysis	12/20/2017
640735	11A	Asbestos Analysis	12/20/2017
640736	11B	Asbestos Analysis	12/20/2017
640737	12A	Asbestos Analysis	12/20/2017
640738	12B	Asbestos Analysis	12/20/2017
640739	13A	Asbestos Analysis	12/20/2017
640740	13B	Asbestos Analysis	12/20/2017

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1017 S Holmes St, Lansing, MI

ETC Job : 200413
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/19/2017
Date Analyzed : 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640712 01A RM1 S Wall Center Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640712 01A RM1 S Wall Center Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640713 01B RM3 N Wall Center Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640713 01B RM3 N Wall Center Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
640714 01C RM3 E Wall Center Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640714 01C RM3 E Wall Center Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640715 01D RM5 E Wall Center Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640715 01D RM5 E Wall Center Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :

1017 S Holmes St, Lansing, MI

ETC Job : 200413

Client Project : N/A

Date Collected : 12/18/2017

Date Received : 12/19/2017

Date Analyzed : 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640716 01E RM5 S Wall Center Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640716 01E RM5 S Wall Center Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640717 02A RM6 Ceiling Center Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
640718 02B RM2 N Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
640719 03A Attic Center Floor Analyst: Scott Larabell	Blown-In Insulation	Brown Fibrous Homogenous	75% Cellulose	25% Other	None Detected
640720 03B RM8 E Wall Analyst: Scott Larabell	Blown-In Insulation	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
640721 04A RM6 Center Floor Analyst: Scott Larabell	Linoleum	Cream Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1017 S Holmes St, Lansing, MI

ETC Job : 200413
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/19/2017
Date Analyzed : 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640722 04B RM1 SE Floor Analyst: Scott Larabell	Linoleum	Cream Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
640723 05A RM9 S Wall Analyst: Scott Larabell	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640724 05B RM9 W Wall Analyst: Scott Larabell	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640725 06A RM9 S Wall Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640726 06B RM9 W Wall Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640727 07A S Floor RM9 Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640728 07B N Floor RM9 Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1017 S Holmes St, Lansing, MI

ETC Job : 200413
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/19/2017
Date Analyzed : 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640729 08A RM9 Center Chimney Analyst: Scott Larabell	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640730 08B RM9 Center Chimney Analyst: Scott Larabell	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640731 09A N Wall Ext House Analyst: Scott Larabell	House Wrap	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
640732 09B W Wall Ext House Analyst: Scott Larabell	House Wrap	Brown Fibrous Homogenous	75% Cellulose	25% Other	None Detected
640733 10A S Wall Electrical Panel RM9 Analyst: Scott Larabell	Electrical Panel Backing	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
640734 10B S Wall Electrical Panel RM9 Analyst: Scott Larabell	Electrical Panel Backing	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
640735 11A E Roof Ext House Analyst: Scott Larabell	Shingles	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETC Job : 200413
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/19/2017
Date Analyzed : 12/20/2017

Location :
 1017 S Holmes St, Lansing, MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640736 11B N Roof Ext House Analyst: Scott Larabell	Shingles	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640737 12A W Roof Ext Garage Analyst: Scott Larabell	Shingles	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640738 12B S Roof Ext Garage Analyst: Scott Larabell	Shingles	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640739 13A N Floor RM10 Analyst: Scott Larabell	Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640740 13B S Floor RM 10 Analyst: Scott Larabell	Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Scott Larabell

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")
 Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples
 Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples
 EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials
 EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

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ENVIRONMENTAL TESTING LABORATORIES, INC

38900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2etil.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #:
 200413

Client: ETC	Contact: Phone: (734) 955-6600	Project Location/Name: 1017 S Holmes Lansing, MI
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Fax: (734) 955-6604 E-mail: results@2etil.com	Client Project #:
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		Date Sampled: 12/18/17

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other

PLM Instructions
 (Check all that apply) 3 days

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	<input type="checkbox"/> Soil or Vermiculite Analysis *
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01A-E		
	02A-B		
	↓		
	13A-B		

		Date	Time
Relinquished (Name/Organization):	<i>[Signature]</i>	12/18/17	5:30 am/pm
Received (Name/ETL):	Brittany Walls	12/19/17	am/pm
Stereoscopical Analysis (Name/ETL):	<i>[Signature]</i>	12-20-17	am/pm
Sample Login (Name/ETL):	Brittany Walls	12/19/17	am/pm
Analysis (Name/ETL):	<i>[Signature]</i>	12-20-17	am/pm
QA/QC Review (Name/ETL):	<i>[Signature]</i>	12/20/17	am/pm

Special Instructions: please point count 3's, or less if positive!	Remarks:
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Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building: 1017 S Holmes			Date: 12/18/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
01	Material: plaster w/ skim	NF	A	Rm 1 South wall center 712	640	Throughout	2400 SF
			B	Rm 3 North wall center 713			
			C	Rm 3 east wall center 714			
			D	Rm 5 east wall center 715			
			E	Rm 5 south wall center 716			
	Material:						
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	200413		Building:	10175 Holmes		Date:	12/18/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
02	Material: Drywall Description: white	NF	A	Rm 6 ceiling center 717	Ceiling in Rm 6	30 ² SF	19	
03	Material: Blown-In Ins Description: brown	F	B	Rm 2 north wall 718	Rm 2	83 ² SF	15	
04	Material: Linoleum Description: cream	NF	A	Attic center floor 719	Rm 8 walls & Attic	1,16,4	16	
05	Material: Cinder block Description: grey	NF	B	Rm 8 east wall 720				
06	Material: Mortar Description: grey	NF	A	Rm 6 center floor 721				
07	Material: Concrete floor Description: grey	NF	B	Rm 1 SE floor 722				
08	Material: Stack cement Description: grey	NF	A	Rm 9 south wall 723	Rm 9 Ext house	10 ⁴ SF	11	
09	Material: House wrap Description: brown	NF	B	Rm 9 west wall 724	Rm 9 Ext house	70 ² SF	11	
10	Material: electrical panel backing Description: brown	NF	A	Save as OSA 725				
11	Material: Shingles Description: black	NF	B	Save as OSB 726				
			A	South floor Rm 9 727	Rm 9	79 ² SF	12	
			B	north floor Rm 9 728	Rm 9	60 ² SF	13	
			A	Rm 9 center chimney 729				
			B	Rm 9 center chimney 730				
			A	north wall ext house 731	Ext house	70 ² SF	20	
			B	west wall ext house 732	Ext house	15 ² SF	14	
			A	South wall electrical panel Rm 9 733	Rm 9			
			B	South wall electrical panel Rm 9 734				
			A	east roof ext house 735	Ext house	70 ² SF	21	
			B	north roof ext house 736	Ext house			

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
200413	Building: 1017 S Holmes							
12	Material: Shingle		NF	A	west roof	Ext		
	Description: black			B	ext garage	garage	400 sf	24
13	Material: Cement floor Cement		NF	A	north floor Rm 10	Rm 10,		
	Description: grey			B	South floor Rm 10	11	378 sf	23
	Material: Description:			A				
	Material: Description:			B				
	Material: Description:			A				
	Material: Description:			B				
	Material: Description:			A				
	Material: Description:			B				
	Material: Description:			A				
	Material: Description:			B				
	Material: Description:			A				
	Material: Description:			B				
	Material: Description:			A				
	Material: Description:			B				

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

A table showing hazardous materials, above the household quantity limitations, found at the house is included as **Table 1: Hazardous Materials**. This table lists non-asbestos materials that may be hazardous and require special handling and disposal requirements. Items that might be in this category include: mercury switches, fluorescent lighting tubes and ballasts, halogen lights, Freon in refrigeration units, pesticides, herbicides, paints, solvents, etc.

Under the Resource Conservation and Recovery Act (RCRA) that addresses hazardous wastes, there is a residential household quantity exclusion. Materials are listed in Table I if they are present in quantities larger than what would typically be expected to be used and disposed in a normal household, and/or may require special handling and disposal requirements, such as: paints, solvents, adhesives, oils, tires, large circuit boards (such as televisions, computers, and security systems), prescription drugs, and syringes. On the other hand, if there were only household sized containers of maintenance, cleaning, non-prescription health and personal hygiene products, radios, and controllers present, as would be found in most homes, these materials would not be listed.

Fluorescent lighting systems have ballasts that have the potential to contain polychlorinated biphenyls (PCBs). Although PCBs are no longer commercially produced in the United States, they may be present in U.S. products that were produced prior to 1979, and may still be commercially available from other countries. Fluorescent bulbs, thermostats, and thermometers may contain mercury and can be treated as Universal Waste, which are streamlined standards for managing common types of hazardous waste.

If obtained, photographs of hazardous materials for the above referenced property are included in **Attachment: Site Photographs**.

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

The property was inspected for the presence of asbestos-containing materials (ACMs) in order to meet the requirements of 40 CFR, Part 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP).

Asbestos Inspection

The property was inspected for the presence of suspected ACMs. Typical building materials that may contain asbestos included drywall, plaster, stucco, floor tiles, roofing felt and shingles, ceiling tiles, insulation, pipe insulation, and duct insulation.

Sample Collection

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

Pre-Demolition Environmental Inspection Procedures

At least two samples of each suspected asbestos containing material identified during the inspection was collected. For surfacing materials (sprayed and/or troweled on) a minimum of three samples were collected for areas that contained less than 1000 square feet of the material; 5 samples were collected for materials 1000 to 5000 square feet, and 7 samples were taken for areas greater than 5000 square feet. A Michigan Accredited Asbestos Inspector collected representative samples of each suspected ACM. Each sample was placed into a sealed plastic bag and labeled. A description of the material and location of the sample collected was recorded in the field notes. The total quantity of each suspected ACM was estimated and recorded in the field notes.

A listing of suspect ACMs at this property that were sampled and sent to the laboratory for analysis is included in **Table 2**. A copy of a floor plan showing sample locations is included in **Attachment: Site Drawing**.


Laboratory Analysis / Results

Each sample of suspect ACM collected at this property was analyzed for asbestos content using polarized light microscopy (PLM) by a NVLAP and NIST accredited laboratory in accordance with 40 CFR Ch. I (1-1-87 Edition) Part 763, Subpart F, Appendix A, pp. 293-299. Asbestos containing materials are defined as materials that contain greater than one percent (>1%) asbestos.

Each sample collected for analysis was delivered to either IATL (International Asbestos Testing Laboratories), 9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054, ETL (Environmental Testing Laboratories), 38900 W. Huron River Drive, Suite 200, Romulus, MI 48174, and/or ACM Engineering & Environmental Services, 26598 US Highway 20 West, South Bend, IN 46628. Laboratory results are included in **Attachment: Laboratory Analytical Results**.

SIGNATURE

This report was prepared based on the site conditions that existed at the time of the inspection, sample collection, and the laboratory analytical results.

Prepared by: 
Heather Davis, Michigan Certified Asbestos Inspector (s)
Michigan Accreditation Number (s) A-48908

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-22-255-061
House No:	1223 S Holmes St, Lansing, MI 48912
Date Inspected:	12/11/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information

No. Stories	1	Garage	No Garage
Square Footage	1458 SF	Garage Square Footage	NA
Basement Square Footage	1458 SF	Garage Siding	NA
Siding	Wood	Garage Color	NA
Color	White	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-255-061
House No. 1223 S Holmes St, Lansing, MI 48912
Date Inspected: 12/11/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Smoke Detectors	1	Room 7

TIRE(s) REPORT

Material	Quantity & Units	Location
Tires	9	Room 9, 11

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-255-061
 House No. 1223 S Holmes St, Lansing, MI 48912
 Date Inspected: 12/11/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Wall Skim, white	Throughout	3000 SF	YES
2	F	Plaster, grey	Throughout	3360 SF	No
3	F	Drywall, white	Room 9	528 SF	No
4	NF	12x12 Tile, tan/marble	Room 8	9 SF	No
5	NF	9x9 Tile, tan	Room 4	9 SF	No
6	NF	Floor board, black	Room 4	9 SF	No
7	NF	Linoleum, wood grain	Room 4	9 SF	No
8	NF	Linoleum, grey	Room 9	252 SF	No
9	NF	12x12 Tile, white	Room 8	144 SF	No
10	NF	12x12 Tile, tan	Room 8	144 SF	No
11	NF	Flooring board, black	Room 8	144 SF	No
12	F	Tape, tan	Throughout	24 SF	No
13	F	Mud, grey	Throughout	24 SF	No
14	NF	Linoleum, grey/white	Room 3	144 SF	No
15	NF	Cement floor, grey	Room 11-13	1296 SF	No
16	NF	Cinderblock, grey	Room 11-13	1458 SF	No
17	NF	Mortar, grey	Room 11-13	1458 SF	No
18	F	Blown-in-insulation, grey	Room 10	1458 SF	No
19	F	House wrap, brown	Exterior	1458 SF	No
20	F	Fiberboard, black	Exterior	1458 SF	No
21	NF	Asphalt shingle, black	Exterior	1458 SF	No

Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-255-061
House No. 1223 S Holmes St, Lansing, MI 48912
Date Inspected: 12/11/2017

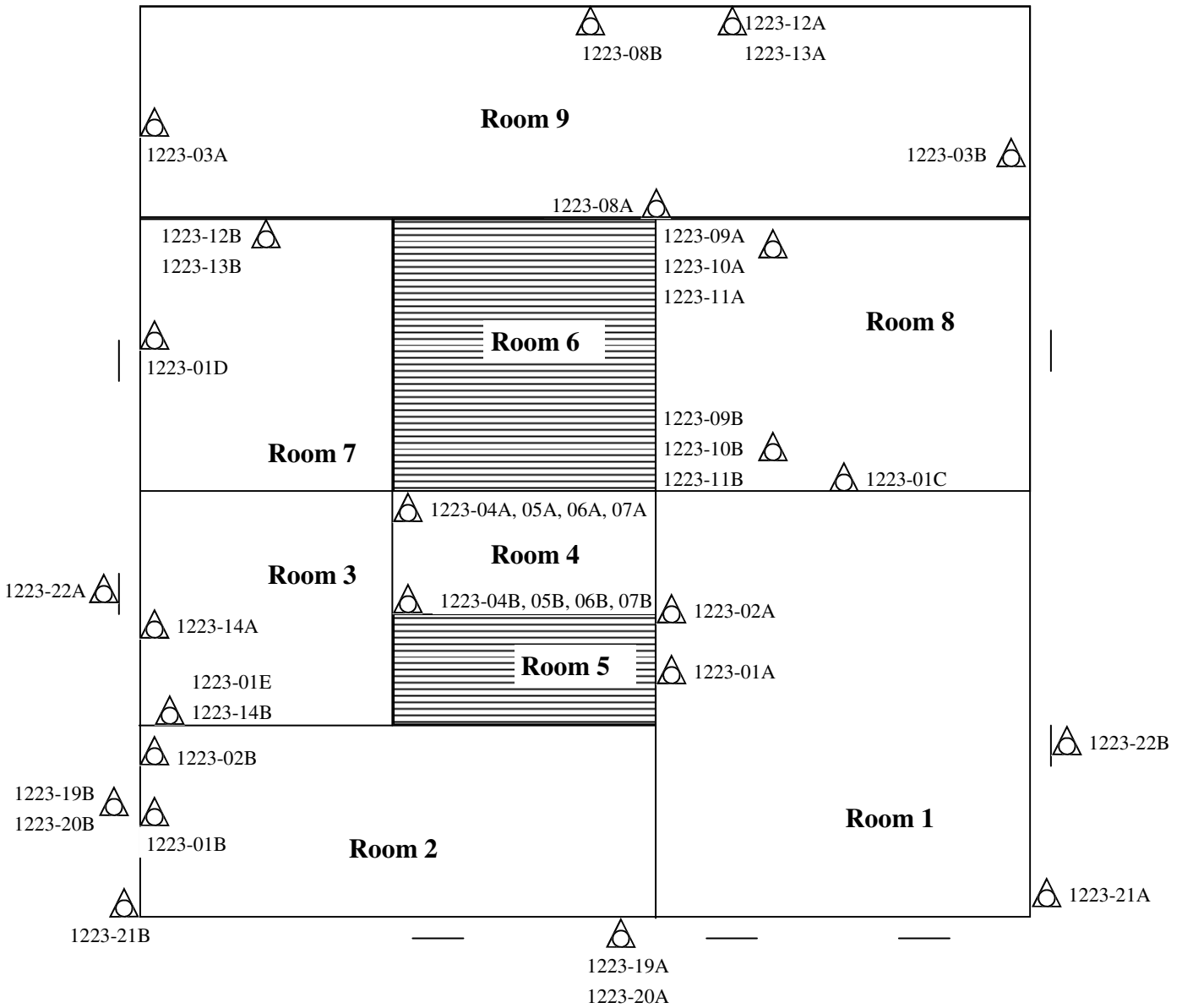
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
22	NF	Window glaze, yellow/white	Exterior	13 windows	No

Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

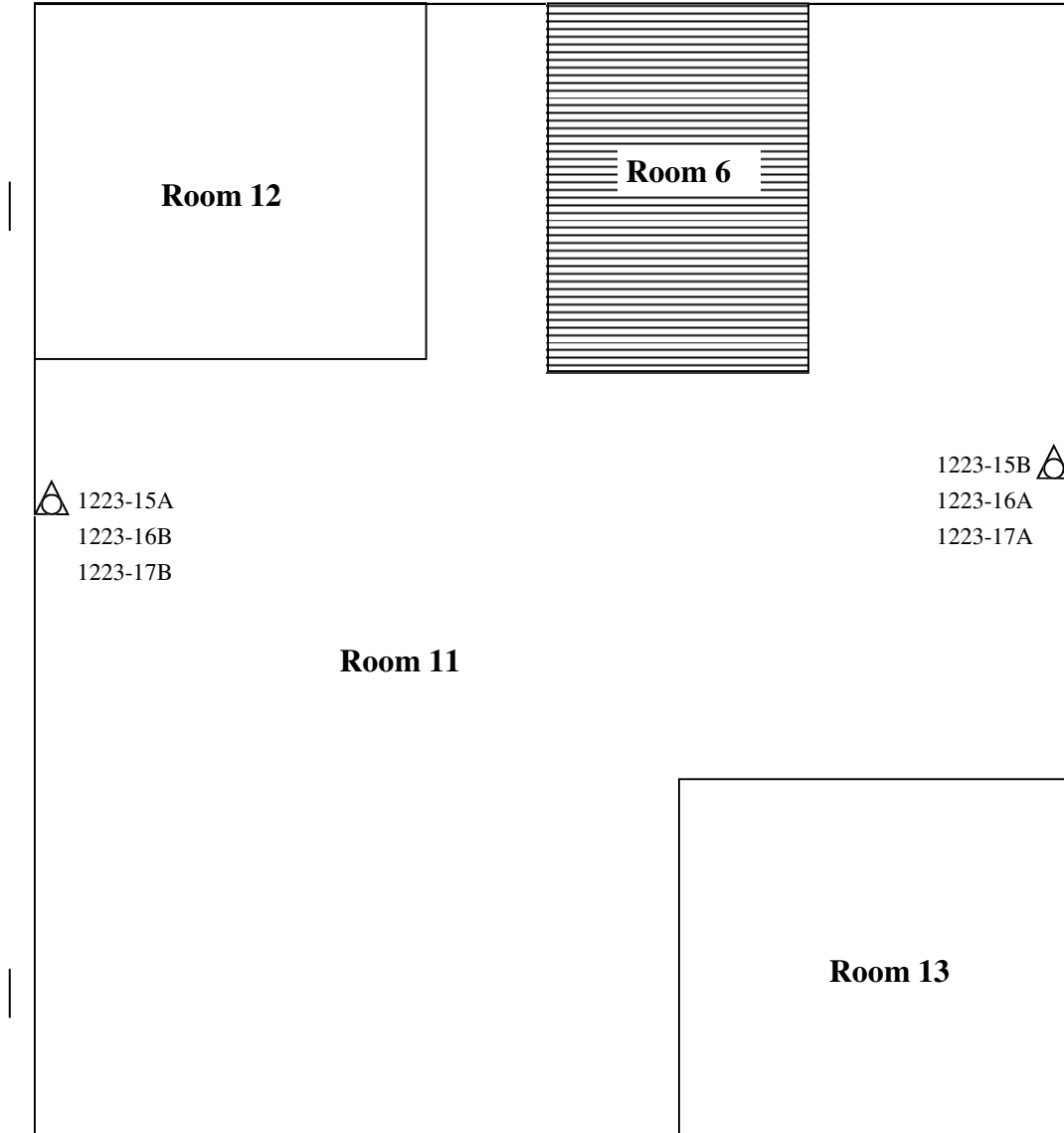



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Basement

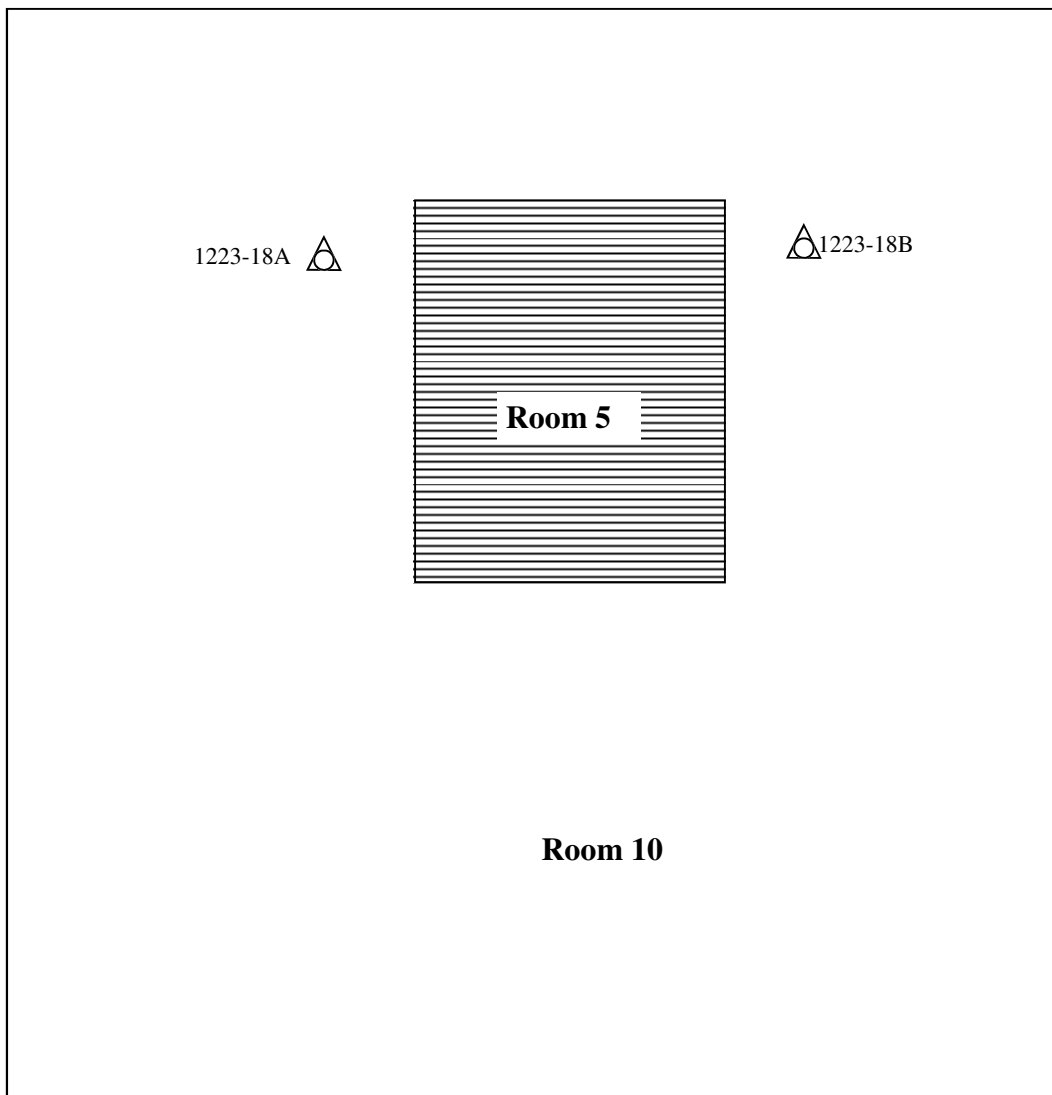
33-01-01-22-255-061
1223 S Holmes St, Lansing, MI 48912
12/11/2017



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Ingham County Land Bank
199859



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-22-255-061
House No. 1223 S Holmes St, Lansing, MI 48912
Date Inspected: 12/11/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-22-255-061
House No. 1223 S Holmes St, Lansing, MI 48912
Date Inspected: 12/11/2017



Smoke Detectors



Tires

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-22-255-061
House No.	1223 S Holmes St, Lansing, MI 48912
Date Inspected:	12/11/2017



Wall Skim

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

REVISED REPORT

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Project Location :
1223 S Holmes St, Lansing, MI

Attention :

Client Project : 33-01-01-22-255-061

ETC Job : 199859

Report Date : 1/2/2018

Login #	Sample ID	Work Requested	Completed
638701	01A	Asbestos Analysis	12/15/2017
638702	01B	Asbestos Analysis	12/15/2017
638703	01C	Asbestos Analysis	12/15/2017
638704	01D	Asbestos Analysis	12/15/2017
638705	01E	Asbestos Analysis	12/15/2017
638706	02A	Asbestos Analysis	12/15/2017
638707	02B	Asbestos Analysis	12/15/2017
638708	03A	Asbestos Analysis	12/15/2017
638709	03B	Asbestos Analysis	12/15/2017
638710	04A	Asbestos Analysis	12/15/2017
638711	04B	Asbestos Analysis	12/15/2017
638712	05A	Asbestos Analysis	12/15/2017
638713	05B	Asbestos Analysis	12/15/2017
638714	06A	Asbestos Analysis	12/15/2017
638715	06B	Asbestos Analysis	12/15/2017
638716	07A	Asbestos Analysis	12/15/2017
638717	07B	Asbestos Analysis	12/15/2017
638718	08A	Asbestos Analysis	12/15/2017
638719	08B	Asbestos Analysis	12/15/2017
638720	09A	Asbestos Analysis	12/15/2017

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Login #	Sample ID	Work Requested	Completed
638721	09B	Asbestos Analysis	12/15/2017
638722	10A	Asbestos Analysis	12/15/2017
638723	10B	Asbestos Analysis	12/15/2017
638724	11A	Asbestos Analysis	12/15/2017
638725	11B	Asbestos Analysis	12/15/2017
638726	12A	Asbestos Analysis	12/15/2017
638727	12B	Asbestos Analysis	12/15/2017
638728	13A	Asbestos Analysis	12/15/2017
638729	13B	Asbestos Analysis	12/15/2017
638730	14A	Asbestos Analysis	12/15/2017
638731	14B	Asbestos Analysis	12/15/2017
638732	15A	Asbestos Analysis	12/15/2017
638733	15B	Asbestos Analysis	12/15/2017
638734	16A	Asbestos Analysis	12/15/2017
638735	16B	Asbestos Analysis	12/15/2017
638736	17A	Asbestos Analysis	12/15/2017
638737	17B	Asbestos Analysis	12/15/2017
638738	18A	Asbestos Analysis	12/15/2017
638739	18B	Asbestos Analysis	12/15/2017
638740	19A	Asbestos Analysis	12/15/2017
638741	19B	Asbestos Analysis	12/15/2017
638742	20A	Asbestos Analysis	12/15/2017
638743	20B	Asbestos Analysis	12/15/2017
638744	21A	Asbestos Analysis	12/15/2017
638745	21B	Asbestos Analysis	12/15/2017
638746	22A	Asbestos Analysis	12/15/2017
638747	22B	Asbestos Analysis	12/15/2017

Login #	Sample ID	Work Requested	Completed
644354	02C	Asbestos Analysis	12/15/2017
644355	02D	Asbestos Analysis	01/02/2018
644356	02E	Asbestos Analysis	01/02/2018

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :

1223 S Holmes St, Lansing, MI

ETC Job : 199859

Client Project : 33-01-01-22-255-061

Date Collected : 12/11/2017

Date Received : 12/13/2017

Date Analyzed : 12/15/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
638701 01A Room 1 N Side Wall Analyst: Dave Cousino	Wall Skim	White Non-Fibrous Homogenous	2% Cellulose	90% Other	8% Chrysotile
638702 01B Room 2 N Side Wall Analyst: Dave Cousino		Not Analyzed			
638703 01C Room 8 W Side Wall Analyst: Dave Cousino		Not Analyzed			
638704 01D Room 7 N Side Wall Analyst: Dave Cousino		Not Analyzed			
638705 01E Room 3 W Side Wall Analyst: Dave Cousino		Not Analyzed			
638706 02A 1 N Wall Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
638707 02B 2 N Wall Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1223 S Holmes St, Lansing, MI

ETC Job : 199859
Client Project : 33-01-01-22-255-061
Date Collected : 12/11/2017
Date Received : 12/13/2017
Date Analyzed : 12/15/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
638708 03A 9 W Wall Analyst: Dave Cousino	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638709 03B 9 S Wall Analyst: Dave Cousino	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
638710 04A 4 N Side Floor Analyst: Dave Cousino	12x12 Marble	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
638711 04B 4 S Side Wall Analyst: Dave Cousino	12x12 Marble	Tan Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
638712 05A 4 N Side Floor Layer-1 Analyst: Dave Cousino	9x9 Tile	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638712 05A 4 N Side Floor Layer-2 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
638713 05B 4 S Side Floor Layer-1 Analyst: Dave Cousino	9x9 Tile	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638713 05B 4 S Side Floor Layer-2 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1223 S Holmes St, Lansing, MI

ETC Job : 199859
Client Project : 33-01-01-22-255-061
Date Collected : 12/11/2017
Date Received : 12/13/2017
Date Analyzed : 12/15/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
638714 06A 4 N Side Floor Layer-1 Analyst: Dave Cousino	Floor Board	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638714 06A 4 N Side Floor Layer-2 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
638715 06B 4 S Side Floor Layer-1 Analyst: Dave Cousino	Floor Board	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638715 06B 4 S Side Floor Layer-2 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
638716 07A 4 N Side Floor Analyst: Dave Cousino	Linoleum	Wood Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638717 07B 4 S Side Floor Analyst: Dave Cousino	Linoleum	Wood Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
638718 08A 9 W Wall Analyst: Dave Cousino	Linoleum	Grey Non-Fibrous Homogenous	85% Cellulose	15% Other	None Detected
638719 08B 9 E Floor Analyst: Dave Cousino	Linoleum	Grey Non-Fibrous Homogenous	80% Cellulose	20% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1223 S Holmes St, Lansing, MI

ETC Job : 199859
Client Project : 33-01-01-22-255-061
Date Collected : 12/11/2017
Date Received : 12/13/2017
Date Analyzed : 12/15/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
638720 09A 8 E Side Floor Analyst: Dave Cousino	12x12 Tile	White Non-Fibrous Homogenous	75% Cellulose	25% Other	None Detected
638721 09B 8 N Side Floor Analyst: Dave Cousino	12x12 Tile	White Non-Fibrous Homogenous	85% Cellulose	15% Other	None Detected
638722 10A 8 E Side Floor Layer-1 Analyst: Dave Cousino	12x12 Tile	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
638722 10A 8 E Side Floor Layer-2 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638723 10B 8 N Side Floor Layer-1 Analyst: Dave Cousino	12x12 Tile	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638723 10B 8 N Side Floor Layer-2 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
638724 11A 8 E Side Floor Layer-1 Analyst: Dave Cousino	Floor Board	Black Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
638724 11A 8 E Side Floor Layer-2 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1223 S Holmes St, Lansing, MI

ETC Job : 199859
Client Project : 33-01-01-22-255-061
Date Collected : 12/11/2017
Date Received : 12/13/2017
Date Analyzed : 12/15/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
638725 11B 8 N Side Floor Layer-1 Analyst: Dave Cousino	Floor Board	Black Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
638725 11B 8 N Side Floor Layer-2 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
638726 12A #9 E Wall Analyst: Dave Cousino	Tape	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
638727 12B #7 E Wall Analyst: Dave Cousino	Tape	Tan Fibrous Homogenous	95% Cellulose	5% Other	None Detected
638728 13A #9 E Wall Analyst: Dave Cousino	Mud	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638729 13B #7 E Walls Analyst: Dave Cousino	Mud	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638730 14A #3 N Floor Analyst: Dave Cousino	Linoleum	Grey/White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1223 S Holmes St, Lansing, MI

ETC Job : 199859
Client Project : 33-01-01-22-255-061
Date Collected : 12/11/2017
Date Received : 12/13/2017
Date Analyzed : 12/15/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
638731 14B #3 W Floor Analyst: Dave Cousino	Linoleum	Grey/White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638732 15A #4 N Side Floor Analyst: Dave Cousino	Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638733 15B #12 S Side Floor Analyst: Dave Cousino	Cement Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638734 16A #11 S Side Wall Analyst: Dave Cousino	Cinder Block	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
638735 16B #11 N Side Wall Analyst: Dave Cousino	Cinder Block	Grey Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected
638736 17A #11 S Side Wall Analyst: Dave Cousino	Mortar	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
638737 17B #11 N Side Wall Analyst: Dave Cousino	Mortar	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1223 S Holmes St, Lansing, MI

ETC Job : 199859
Client Project : 33-01-01-22-255-061
Date Collected : 12/11/2017
Date Received : 12/13/2017
Date Analyzed : 12/15/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
638738 18A #10 N Side Analyst: Dave Cousino	Blown-In	Grey Fibrous Homogenous	80% Cellulose	20% Other	None Detected
638739 18B #10 S Side Analyst: Dave Cousino	Blown-In	Grey Fibrous Homogenous	80% Cellulose	20% Other	None Detected
638740 19A Ext E Side Analyst: Dave Cousino	House Wrap	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
638741 19B Ext N Side Analyst: Dave Cousino	House Wrap	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
638742 20A Ext E Side Analyst: Dave Cousino	Fiber Board	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
638743 20B Ext N Side Analyst: Dave Cousino	Fiber Board	Black Fibrous Homogenous	85% Cellulose	15% Other	None Detected
638744 21A Ext Roof S Side Analyst: Dave Cousino	Asphalt Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1223 S Holmes St, Lansing, MI

ETC Job : 199859
Client Project : 33-01-01-22-255-061
Date Collected : 12/11/2017
Date Received : 12/13/2017
Date Analyzed : 12/15/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
638745 21B Ext Roof N Side Analyst: Dave Cousino	Asphalt Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638746 22A N Side Analyst: Dave Cousino	Window Glaze	Yellow/White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638747 22B S Side Analyst: Dave Cousino	Window Glaze	Yellow/White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
644354 02C RM8 E Wall Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
644355 02D RM3 N Wall Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
644356 02E RM9 W Wall Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Dave Cousino



Certificate of Analysis

Environmental Testing Laboratories, Inc.



38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Location :

1223 S Holmes St, Lansing, MI

ETC Job : 199859

Client Project : 33-01-01-22-255-061

Date Collected : 12/28/2017

Date Received : 12/29/2017

Date Analyzed : 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
--------	-------------	------------	-----------	---------------	------------

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")

Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples

Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples

EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials

EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

ENVIRONMENTAL TESTING LABORATORIES, INC

38900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2ell.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: **199859**

Client: ETC	Contact: Phone: (734) 955-6600	Project Location/name: 1223 Holmes
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Fax: (734) 955-6604 E-mail: results@2ell.com	Client Project #: 199859
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		Date Sampled: 12/11/17

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other

PLM Instructions
(Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	<input type="checkbox"/> Soil or Vermiculite Analysis *
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 A-E		
		Please See Attached Sheets	
	02 A-B		
	↓		
	22 A-B		

		Date	Time
Relinquished (Name/Organization):	Wade Gilbre ETC	12/11/17	am/pm
Received (Name/ETL):	Brittany Walls	12/13/17	am/pm
Stereoscopical Analysis (Name/ETL):	David Cassano	12/14/17	12:30 am/pm
Sample Login (Name/ETL):	Brittany Walls	12/13/17	am/pm
Analysis (Name/ETL):	David Cassano	12/14/17	12:30 am/pm
QA/QC Review (Name/ETL):		12/14/17	am/pm

Special Instructions: Please point count anything less than 3%	Remarks:
--	-----------------

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building: 1223 Holmes			Date: 12/11/19	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
01	Material: wall skesh white	N	A	Room 1 N side wall	688701 through	3000 SF	
			B	Room 2 N side wall	702		
			C	Room 8 W side wall	703		
			D	Room 11 N side wall	704		
			E	Room 3 W side wall	705		
	Material:						
	Material:						
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

215

SE000 - 7

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	199859		Building:	1223 Holmes		Date:	12/11/10	
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
02	Material: Plaster Description: Gray	F	A B	1 N wall 2 N wall	throughout	3360		
03	Material: Dry wall Description: white	F	A B	9 West wall 9 S wall	#9	528		
04	Material: 12 X 12 Description: tan, marble	N	A B	4 N side floor 4 S side floor	#4	9		
05	Material: 9 X 9 Description: tan	N	A B	4 N side floor 4 S side floor	#4	9		
06	Material: floor Board Description: Black	N	A B	4 N side floor 4 S side floor	#4	9		
07	Material: Lamolium Description: Wood Grain	N	A B	4 N side floor 4 S side floor	#4	9		
08	Material: Lamolium Description: Gray	N	A B	9 W floor 9 E floor	#9	252		
09	Material: 12 X 12 Description: white	N	A B	8 E side floor 8 N side floor	#8	144		
10	Material: 12 X 12 Description: tan	N	A B	8 E side floor 8 N side floor	#8	144		
11	Material: Flooring Board Description: Blue A	N	A B	8 E side floor 8 N side floor	#8	144		

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199859		Building:	1223 Holmes		Date:	12/11/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
12	Material: tape	F	A	H 9 E wall	throughout	24 LF		
	Description: tan		B	H 9 E wall				
13	Material: mud	F	A	H 9 E wall	throughout	24 LF		
	Description: Grey		B	H 9 E wall				
14	Material: Limestone	N	A	# 3 N wall floor	#3	144		
	Description: Grey/white		B	# 3 N wall floor				
15	Material: Cement floor	N	A	# 4 N side floor	11/12/13	1458		
	Description: Grey		B	# 4 S side floor				
16	Material: Cinder Block	N	A	# 11 S side wall	11/12/13	1458		
	Description: Grey		B	# 4 N side wall				
17	Material: mortar	N	A	# 11 S side wall	11/12/13	1458		
	Description: Grey		B	# 11 N side wall				
18	Material: Brown in	F	A	# 10 N side	#60	1458		
	Description: Grey		B	# 10 S side				
19	Material: House wrap	F	A	Ext E side	Ext	1458		
	Description: Brown		B	Ext N side				
20	Material: fiber board	F	A	Ext E side	Ext	1458		
	Description: Black		B	Ext N side				
21	Material: Ashphalt Shingle	N	A	Ext Roof S Side	Ext	1458		
	Description: Black		B	Ext Roof N Side				

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: 1273 Holmes		Date: 12/11/10	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		
22	Material: Window Glaze	F	A	N side	13 units	
	Description: yellow/white		B	S side		
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			

2 samples

5/5

ENVIRONMENTAL TESTING LABORATORIES, INC

38900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2etl.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199859

Client: ETC	Contact: <u>Liv Hagerman</u>	Project Location/Name: <u>1223 S Holmes St. Lansing, MI 48910</u>
Address: <u>721 N. Capitol Ave. Suite 3, Lansing, MI 48906</u>	Phone: (734) 955-6600	
	Fax: (734) 955-6604	
	E-mail: <u>results@2etl.com</u>	Client Project #: <u>199859</u>
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Date Sampled: <u>12/28/17</u>

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other _____

PLM Instructions
 (Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive -
<input type="checkbox"/> Point Counting: 400 Points*	Clearly mark Homogenous Group
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	<u>02 CDF</u>	<u>Please see Attached Sheets</u>	

	Date	Time
Relinquished (Name/Organization): <u>Take Classroom ETC Group</u>	<u>12/28/17</u>	<u>5:00 am/pm</u>
Received (Name/ETL): <u>Tom Moraska</u>	<u>12/29/17</u>	<u>am/pm</u>
Stereoscopical Analysis (Name/ETL): <u>Daved Conner</u>	<u>1/2/18</u>	<u>8:00 am/pm</u>
Sample Login (Name/ETL): <u>Brittany Walls</u>	<u>12/29/17</u>	<u>1:15 pm</u>
Analysis (Name/ETL): <u>Daved Conner</u>	<u>1/2/18</u>	<u>8:00 am/pm</u>
QA/QC Review (Name/ETL): <u>[Signature]</u>	<u>1/2/18</u>	<u>am/pm</u>

Special Instructions: <u>Please point count samples 2% or less</u>	Remarks
--	----------------

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building:		Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		
199859				1223 S. Holmes St, Lansing MI	12/28/17	
	Material: Plaster		C	Rm 8 E Wall		
			D	Rm 3 N Wall		
02	Grey	NF	E	Rm 9 W. Wall	3360 SF	
	Material:			throughout		
	Material:					
	Material:					

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

A table showing hazardous materials, above the household quantity limitations, found at the house is included as **Table 1: Hazardous Materials**. This table lists non-asbestos materials that may be hazardous and require special handling and disposal requirements. Items that might be in this category include: mercury switches, fluorescent lighting tubes and ballasts, halogen lights, Freon in refrigeration units, pesticides, herbicides, paints, solvents, etc.

Under the Resource Conservation and Recovery Act (RCRA) that addresses hazardous wastes, there is a residential household quantity exclusion. Materials are listed in Table I if they are present in quantities larger than what would typically be expected to be used and disposed in a normal household, and/or may require special handling and disposal requirements, such as: paints, solvents, adhesives, oils, tires, large circuit boards (such as televisions, computers, and security systems), prescription drugs, and syringes. On the other hand, if there were only household sized containers of maintenance, cleaning, non-prescription health and personal hygiene products, radios, and controllers present, as would be found in most homes, these materials would not be listed.

Fluorescent lighting systems have ballasts that have the potential to contain polychlorinated biphenyls (PCBs). Although PCBs are no longer commercially produced in the United States, they may be present in U.S. products that were produced prior to 1979, and may still be commercially available from other countries. Fluorescent bulbs, thermostats, and thermometers may contain mercury and can be treated as Universal Waste, which are streamlined standards for managing common types of hazardous waste.

If obtained, photographs of hazardous materials for the above referenced property are included in **Attachment: Site Photographs**.

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

The property was inspected for the presence of asbestos-containing materials (ACMs) in order to meet the requirements of 40 CFR, Part 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP).

Asbestos Inspection

The property was inspected for the presence of suspected ACMs. Typical building materials that may contain asbestos included drywall, plaster, stucco, floor tiles, roofing felt and shingles, ceiling tiles, insulation, pipe insulation, and duct insulation.

Sample Collection

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

Pre-Demolition Environmental Inspection Procedures

At least two samples of each suspected asbestos containing material identified during the inspection was collected. For surfacing materials (sprayed and/or troweled on) a minimum of three samples were collected for areas that contained less than 1000 square feet of the material; 5 samples were collected for materials 1000 to 5000 square feet, and 7 samples were taken for areas greater than 5000 square feet. A Michigan Accredited Asbestos Inspector collected representative samples of each suspected ACM. Each sample was placed into a sealed plastic bag and labeled. A description of the material and location of the sample collected was recorded in the field notes. The total quantity of each suspected ACM was estimated and recorded in the field notes.

A listing of suspect ACMs at this property that were sampled and sent to the laboratory for analysis is included in **Table 2**. A copy of a floor plan showing sample locations is included in **Attachment: Site Drawing**.

Laboratory Analysis / Results

Each sample of suspect ACM collected at this property was analyzed for asbestos content using polarized light microscopy (PLM) by a NVLAP and NIST accredited laboratory in accordance with 40 CFR Ch. I (1-1-87 Edition) Part 763, Subpart F, Appendix A, pp. 293-299. Asbestos containing materials are defined as materials that contain greater than one percent (>1%) asbestos.

Each sample collected for analysis was delivered to either IATL (International Asbestos Testing Laboratories), 9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054, ETL (Environmental Testing Laboratories), 38900 W. Huron River Drive, Suite 200, Romulus, MI 48174, and/or ACM Engineering & Environmental Services, 26598 US Highway 20 West, South Bend, IN 46628. Laboratory results are included in **Attachment: Laboratory Analytical Results**.

SIGNATURE

This report was prepared based on the site conditions that existed at the time of the inspection, sample collection, and the laboratory analytical results.

Wade Wiltse

Prepared by: _____

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-22-301-071
House No:	725 Beulah St, Lansing, MI 48910
Date Inspected:	12/19/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information

No. Stories	1	Garage	No Garage
Square Footage	1920 SF	Garage Square Footage	NA
Basement Square Footage	1368 SF	Garage Siding	NA
Siding	4512 SF	Garage Color	NA
Color	Green	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-301-071
House No. 725 Beulah St, Lansing, MI 48910
Date Inspected: 12/19/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Tank	1	Room 11
Electronics (treadmill)	1	Room 11
Fire Extinguishers	1	Room 12
Misc. Items (solvents, cleaners)	3	Room 4, 8, 9
Paint Cans	9 (1 gallon)	Room 1, 4, 11
Boat	1	Exterior (house)

TIRE(s) REPORT

Material	Quantity & Units	Location
Tires	2	Exterior (house)

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-301-071
 House No. 725 Beulah St, Lansing, MI 48910
 Date Inspected: 12/19/2017

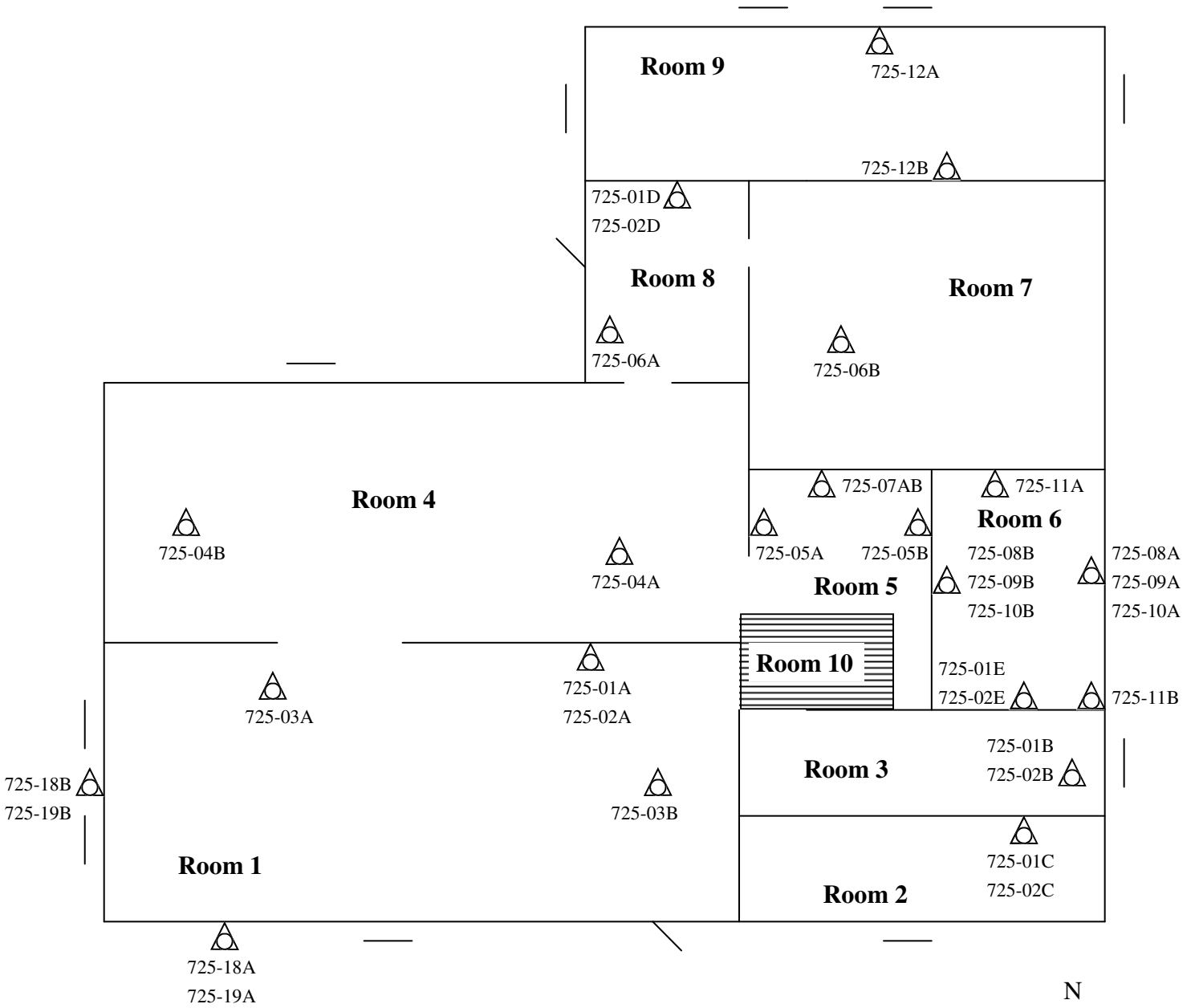
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS


Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Plaster, grey	Throughout	4707 SF	No
2	NF	Texture, white	Throughout	4707 SF	YES
3	NF	Linoleum, tan	Room 1	324 SF	No
4	NF	Linoleum, cream	Room 4	180 SF	No
5	NF	Linoleum, white	Room 5	9 SF	No
6	NF	Linoleum, cream	Room 7, 8	132 SF	No
7	NF	Wall linoleum, red/brick	Room 5	30 SF	No
8	NF	12x12 Peel and stick, white/blue	Room 6	48 SF	No
9	NF	12x12 Peel and stick, light purple/ white	Room 6	48 SF	No
10	NF	12x12 Peel and stick, white	Room 6	48 SF	No
11	NF	Fiberboard, brown	Room 6	280 SF	No
12	NF	Fiberboard, tan	Room 9	600 SF	No
13	NF	Brick, white	Room 11, 12	72 SF	No
14	NF	Cinderblock, grey	Room 12	504 SF	No
15	NF	Mortar, grey	Room 12	300 SF	No
16	NF	Concrete, grey	Room 11, 12	1368 SF	No
17	NF	Block, grey	Room 11	840 SF	No
18	NF	House wrap, tan	Exterior	4512 SF	No
19	NF	Shingle, black/brown	Exterior	2000 SF	No

Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

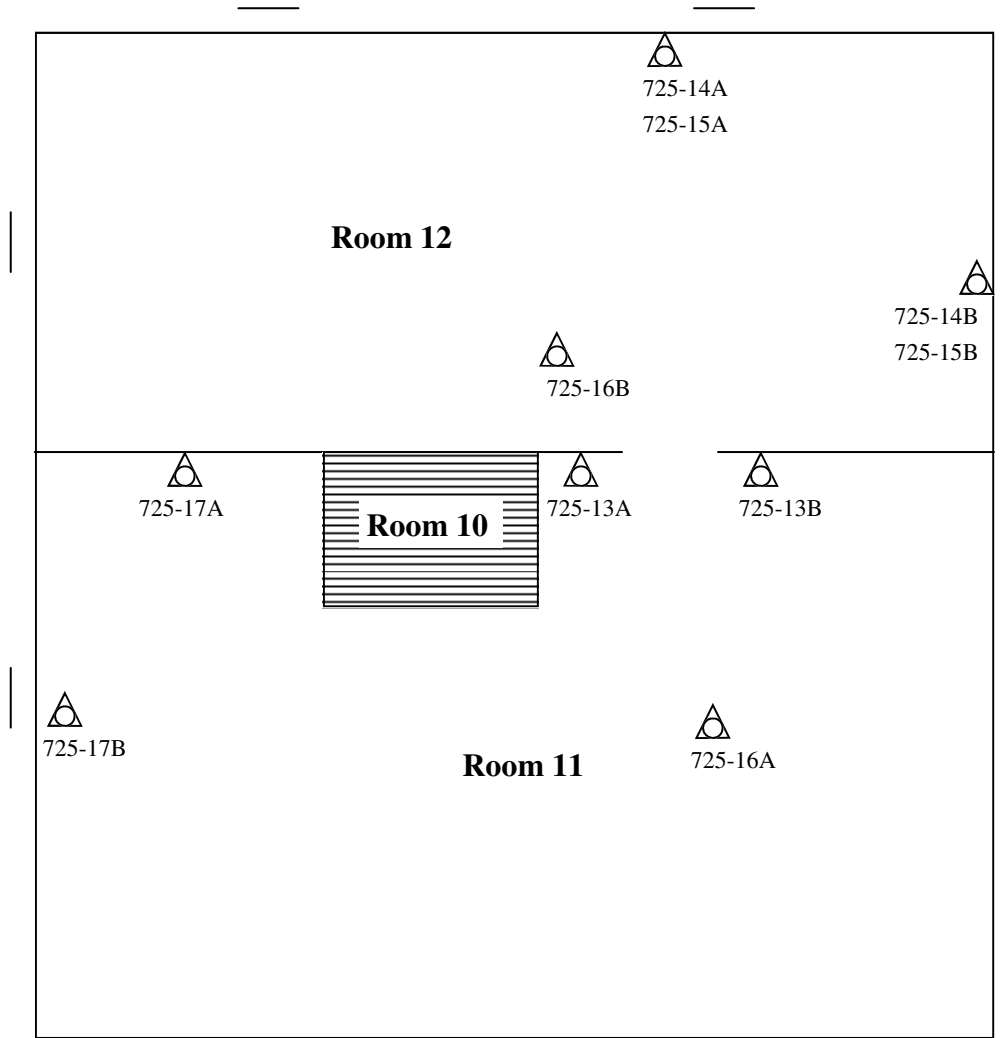


 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Basement

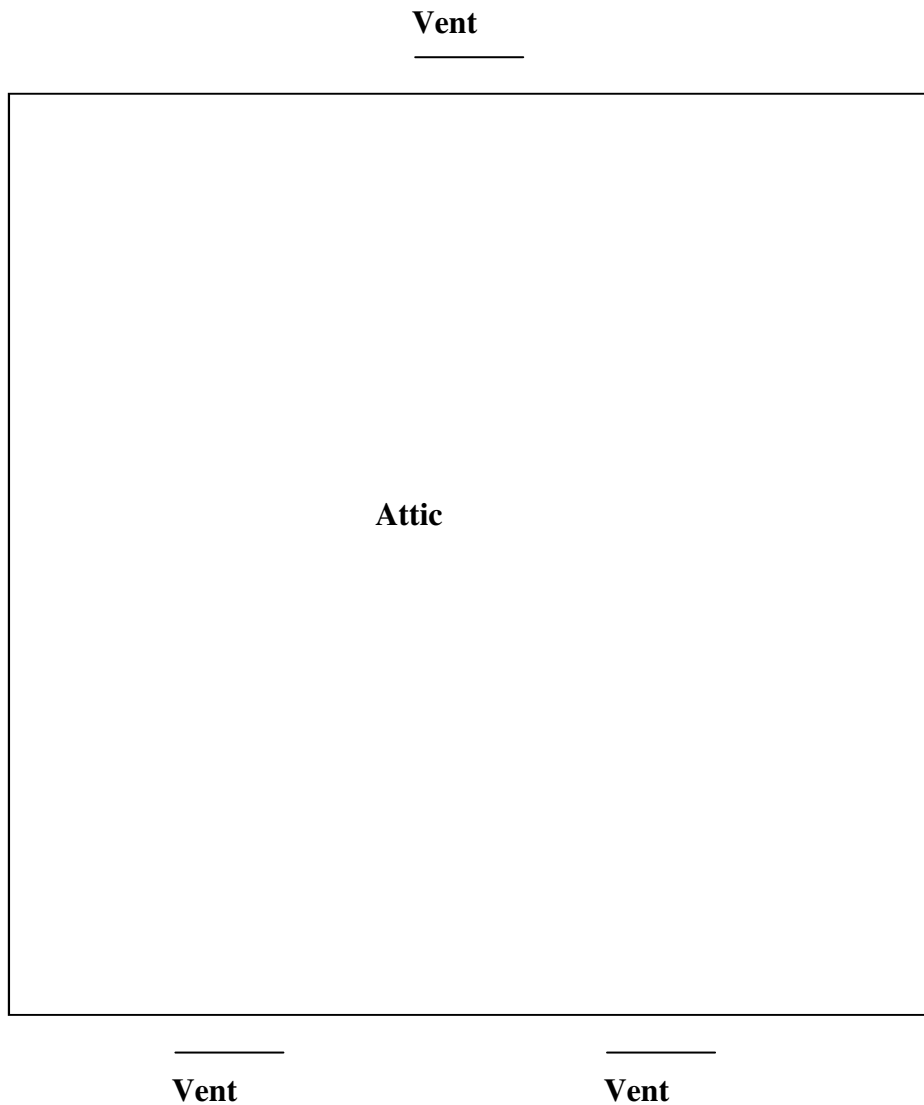
33-01-01-22-301-071
725 Beulah St, Lansing, MI 48910
12/19/2017



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Ingham County Land Bank
199861



Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-22-301-071
House No. 725 Beulah St, Lansing, MI 48910
Date Inspected: 12/19/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-22-301-071
House No. 725 Beulah St, Lansing, MI 48910
Date Inspected: 12/19/2017



Hot Water Tank



Electronics (treadmill)



Misc. Items (solvents, cleaners)



Paint Cans

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-22-301-071
House No. 725 Beulah St, Lansing, MI 48910
Date Inspected: 12/19/2017



Tires



Boat



Fire Extinguishers

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-22-301-071
House No.	725 Beulah St, Lansing, MI 48910
Date Inspected:	12/19/2017



Texture, white

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Project Location :
725 Beulah St, Lansing, MI

Attention :

Client Project : 33-01-01-22-301-071

ETC Job : 199861

Report Date : 12/21/2017

Login #	Sample ID	Work Requested	Completed
641815	01A	Asbestos Analysis	12/21/2017
641816	01B	Asbestos Analysis	12/21/2017
641817	01C	Asbestos Analysis	12/21/2017
641818	01D	Asbestos Analysis	12/21/2017
641819	01E	Asbestos Analysis	12/21/2017
641820	02A	Asbestos Analysis	12/21/2017
641821	02B	Asbestos Analysis	12/21/2017
641822	02C	Asbestos Analysis	12/21/2017
641823	02D	Asbestos Analysis	12/21/2017
641824	02E	Asbestos Analysis	12/21/2017
641825	03A	Asbestos Analysis	12/21/2017
641826	03B	Asbestos Analysis	12/21/2017
641827	04A	Asbestos Analysis	12/21/2017
641828	04B	Asbestos Analysis	12/21/2017
641829	05A	Asbestos Analysis	12/21/2017
641830	05B	Asbestos Analysis	12/21/2017
641831	06A	Asbestos Analysis	12/21/2017
641832	06B	Asbestos Analysis	12/21/2017
641833	07A	Asbestos Analysis	12/21/2017
641834	07B	Asbestos Analysis	12/21/2017

This report is intended for use solely by the individual or entity to which it is addressed. This report may not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. It may contain information that is privileged, confidential and otherwise exempt by law from disclosure. If the reader of this information is not the intended recipient or an employee of its intended recipient, you are herewith notified that any dissemination, distribution or copying of this information is strictly prohibited. If you have received this information in error, please notify ETL immediately. Thank you.

Login #	Sample ID	Work Requested	Completed
641835	08A	Asbestos Analysis	12/21/2017
641836	08B	Asbestos Analysis	12/21/2017
641837	09A	Asbestos Analysis	12/21/2017
641838	09B	Asbestos Analysis	12/21/2017
641839	10A	Asbestos Analysis	12/21/2017
641840	10B	Asbestos Analysis	12/21/2017
641841	11A	Asbestos Analysis	12/21/2017
641842	11B	Asbestos Analysis	12/21/2017
641843	12A	Asbestos Analysis	12/21/2017
641844	12B	Asbestos Analysis	12/21/2017
641845	13A	Asbestos Analysis	12/21/2017
641846	13B	Asbestos Analysis	12/21/2017
641847	14A	Asbestos Analysis	12/21/2017
641848	14B	Asbestos Analysis	12/21/2017
641849	15A	Asbestos Analysis	12/21/2017
641850	15B	Asbestos Analysis	12/21/2017
641851	16A	Asbestos Analysis	12/21/2017
641852	16B	Asbestos Analysis	12/21/2017
641853	17A	Asbestos Analysis	12/21/2017
641854	17B	Asbestos Analysis	12/21/2017
641855	18A	Asbestos Analysis	12/21/2017
641856	18B	Asbestos Analysis	12/21/2017
641857	19A	Asbestos Analysis	12/21/2017
641858	19B	Asbestos Analysis	12/21/2017

Login #

Sample ID

Work Requested

Completed

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 725 Beulah St, Lansing, MI

ETC Job : 199861
Client Project : 33-01-01-22-301-071
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641815 01A Rm 1 N Wall Analyst: Liliane Mason	Plaster	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641816 01B Rm 3 E Wall Analyst: Liliane Mason	Plaster	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641817 01C Rm 2 N Wall Analyst: Liliane Mason	Plaster	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641818 01D Rm 8 N Wall Analyst: Liliane Mason	Plaster	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641819 01E Rm 6 S Wall Analyst: Liliane Mason	Plaster	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641820 02A Rm 1 N Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641821 02B Rm 3 E Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 725 Beulah St, Lansing, MI

ETC Job : 199861
Client Project : 33-01-01-22-301-071
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641822 02C Rm 2 N Wall Layer-1 Analyst: Liliane Mason 02C,02D is different than 02A,02B,02E	Texture	Blue Non-Fibrous Homogenous		97% Other	3% Chrysotile
641822 02C Rm 2 N Wall Layer-2 Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641823 02D Rm 8 N Wall Analyst: Liliane Mason		Not Analyzed			
641824 02E Rm 6 S Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641825 03A Rm 1 N Floor Analyst: Liliane Mason	Linoleum	Tan Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641826 03B Rm 1 NE Floor Analyst: Liliane Mason	Linoleum	Tan Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641827 04A Rm 4 S Floor Analyst: Liliane Mason	Linoleum	Cream Fibrous Homogenous	7% Cellulose	93% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 725 Beulah St, Lansing, MI

ETC Job : 199861
Client Project : 33-01-01-22-301-071
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641828 04B Rm 4 W Floor Analyst: Liliane Mason	Linoleum	Cream Fibrous Homogenous	10% Cellulose	90% Other	None Detected
641829 05A Rm 5 W Floor Analyst: Liliane Mason	Linoleum	White Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641830 05B Rm 5 E Floor Analyst: Liliane Mason	Linoleum	White Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641831 06A Rm 8 W Floor Analyst: Liliane Mason	Linoleum	Cream Fibrous Homogenous	5% Cellulose	95% Other	None Detected
641832 06B Rm 7 W Floor Analyst: Liliane Mason	Linoleum	Cream Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641833 07A N Wall Rm 5 Analyst: Liliane Mason	Wall Linoleum	Red Fibrous Homogenous	50% Cellulose	50% Other	None Detected
641834 07B N Wall Rm 5 Analyst: Liliane Mason	Wall Linoleum	Red Fibrous Homogenous	50% Cellulose	50% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 725 Beulah St, Lansing, MI

ETC Job : 199861
Client Project : 33-01-01-22-301-071
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641835 08A Rm 6 E Floor Layer-1 Analyst: Liliane Mason	12x12 Peel and Stick	Blue Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641835 08A Rm 6 E Floor Layer-2 Analyst: Liliane Mason	12x12 Peel and Stick	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641836 08B Rm 6 W Floor Analyst: Liliane Mason	12x12 Peel and Stick	Blue Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641837 09A Rm 6 E Floor Analyst: Liliane Mason	12x12 Peel and Stick	Purple Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641838 09B Rm 6 W Floor Analyst: Liliane Mason	12x12 Peel and Stick	Purple Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641839 10A Rm 6 E Floor Layer-1 Analyst: Liliane Mason	12x12 Peel and Stick	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641839 10A Rm 6 E Floor Layer-2 Analyst: Liliane Mason	12x12 Peel and Stick	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 725 Beulah St, Lansing, MI

ETC Job : 199861
Client Project : 33-01-01-22-301-071
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641840 10B Rm 6 W Floor Layer-1 Analyst: Liliane Mason	12x12 Peel and Stick	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641840 10B Rm 6 W Floor Layer-2 Analyst: Liliane Mason	12x12 Peel and Stick	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641841 11A N Wall Rm 6 Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
641842 11B S Wall Rm 6 Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
641843 12A N Wall Rm 9 Analyst: Liliane Mason	Fiber Board	Tan Fibrous Homogenous	70% Cellulose	30% Other	None Detected
641844 12B S Wall Rm 9 Analyst: Liliane Mason	Fiber Board	Tan Fibrous Homogenous	70% Cellulose	30% Other	None Detected
641845 13A Rm 11 NW Entrance Way Analyst: Liliane Mason	Brick	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 725 Beulah St, Lansing, MI

ETC Job : 199861
Client Project : 33-01-01-22-301-071
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641846 13B Rm 11 NE Entrance Way Analyst: Liliane Mason	Brick	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641847 14A Rm 12 N Wall Analyst: Liliane Mason	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641848 14B Rm 12 E Wall Analyst: Liliane Mason	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641849 15A Rm 12 N Wall Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641850 15B Rm 12 E Wall Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641851 16A Rm 11 Floor Center Analyst: Liliane Mason	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641852 16B Rm 12 Floor Center Analyst: Liliane Mason	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 725 Beulah St, Lansing, MI

ETC Job : 199861
Client Project : 33-01-01-22-301-071
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641853 17A Rm 11 N Wall Analyst: Liliane Mason	Block	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641854 17B Rm 11 W Wall Analyst: Liliane Mason	Block	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641855 18A S Wall Ext House Analyst: Liliane Mason	House Wrap	Tan Fibrous Homogenous	60% Cellulose	40% Other	None Detected
641856 18B W Wall Ext House Analyst: Liliane Mason	House Wrap	Tan Fibrous Homogenous	60% Cellulose	40% Other	None Detected
641857 19A S Roof Ext House Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641858 19B W Roof Ext House Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Liliane Mason



Certificate of Analysis

Environmental Testing Laboratories, Inc.



38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Location :
725 Beulah St, Lansing, MI

ETC Job : 199861
Client Project : 33-01-01-22-301-071
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
--------	-------------	------------	-----------	---------------	------------

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")
 Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples
 Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples
 EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials
 EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

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ENVIRONMENTAL TESTING LABORATORIES, INC

38900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2etl.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199861

Client: ETC	Contact:	Project Location/name: 725 Beulah
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	
	Fax: (734) 955-6604	Client Project #: 199861
	E-mail: results@2etl.com	Date Sampled: 12/19/17
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other _____

PLM Instructions
 (Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	<input type="checkbox"/> Soil or Vermiculite Analysis *
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 A, B, C, D, E		
	02 ABCDE		
	03 AB		
	↓		
	19 AB		

	Date	Time
Relinquished (Name/Organization):	12/19/17	am/pm
Received (Name/ETL):	12.21.17	am/pm
Stereoscopical Analysis (Name/ETL):	12/21/17	am/pm
Sample Login (Name/ETL):	12.21.17	am/pm
Analysis (Name/ETL):	12/22/17	am/pm
QA/QC Review (Name/ETL):	12/22/17	am/pm

Special Instructions: Please count anything less than 30/c	Remarks:
--	-----------------

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building: 725 Beulah St		Date: 12/19/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		
01	Material: Plaster grey	NF	A	Rm 1 north wall 641815	Throughout	
			B	Rm 3 east wall 816		
			C	Rm 2 north wall 817		
			D	Rm 8 north wall 818		
			E	Rm 6 south wall 819		
02	Material: Texture white	NF	A	same as 01A 820	Throughout	
			B	same as 01B 821		
			C	same as 01C 822		
			D	same as 01D 823		
			E	same as 01E 824		
	Material:					

<1000 SF = 3 samples

1000 - <5000 = 5 samples

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	199861		Building:	725 Bevan st		Date:	12/19/17	
Material No.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
03	Material: Linoleum Description: tan	NF	A	Rm 1 north floor	Rm 1			
			B	Rm 1 northeast floor				
04	Material: Linoleum Description: Cream	NF	A	Rm 4 south floor	Rm 4			
			B	Rm 4 west floor				
05	Material: Linoleum Description: white	NF	A	Rm 5 west floor	Rm 5			
			B	Rm 5 east floor				
06	Material: Linoleum Description: Cream	NF	A	Rm 8 west floor	Rm 8,7			
			B	Rm 7 west floor				
07	Material: wall linoleum	NF	A	north wall Rm 5	Rm 5			
	Material: Red brick		B	north wall Rm 5				
08	Material: 12x12 P&S Description: white/blue	NF	A	Rm 6 east floor	Rm 6			
			B	Rm 6 west floor				
09	Material: 12x12 P&S Description: light purple/white/spec	NF	A	Same as 08A	Rm 6			
			B	Same as 08B				
10	Material: 12x12 P&S Description: white	NF	A	Same as 08A	Rm 6			
			B	Same as 08B				
11	Material: fiber board Description: brown	NF	A	north wall Rm 6	Rm 6			
			B	south wall Rm 6				
12	Material: fiber board Description: tan	NF	A	north wall Rm 9	Rm 9			
			B	south wall Rm 9				

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	199861		Building:	725 Beulah st		Date:	12/19/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
13	Material: Brick 641845 Description: white 846	NF	A	Rm 11 NW entrance way	Rm 11/12 entrance way			
14	Material: Cinder block 847 Description: grey 848	NF	B	Rm 11 NE entrance way				
15	Material: Mortar 849 Description: grey 850	NF	A	Rm 12 north wall	Rm 12			
16	Material: Concrete 851 Description: grey 852	NF	B	Rm 12 east wall				
17	Material: block 853 Description: grey 854	NF	A	Same as 14A	Rm 12			
18	Material: House wrap 855 Description: tan 856	NF	B	Same as 14B				
19	Material: Shingle 857 Description: black/brown 858	NF	A	Rm 11 floor center	12.11			
	Material: Description		B	Rm 11 north wall				
	Material: Description		A	Rm 11 west wall	11			
	Material: Description		B	South wall ext house	ext house			
	Material: Description		A	west wall ext house				
	Material: Description		B	South roof ext house	ext house			
	Material: Description		A	west roof ext house				
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

A table showing hazardous materials, above the household quantity limitations, found at the house is included as **Table 1: Hazardous Materials**. This table lists non-asbestos materials that may be hazardous and require special handling and disposal requirements. Items that might be in this category include: mercury switches, fluorescent lighting tubes and ballasts, halogen lights, Freon in refrigeration units, pesticides, herbicides, paints, solvents, etc.

Under the Resource Conservation and Recovery Act (RCRA) that addresses hazardous wastes, there is a residential household quantity exclusion. Materials are listed in Table I if they are present in quantities larger than what would typically be expected to be used and disposed in a normal household, and/or may require special handling and disposal requirements, such as: paints, solvents, adhesives, oils, tires, large circuit boards (such as televisions, computers, and security systems), prescription drugs, and syringes. On the other hand, if there were only household sized containers of maintenance, cleaning, non-prescription health and personal hygiene products, radios, and controllers present, as would be found in most homes, these materials would not be listed.

Fluorescent lighting systems have ballasts that have the potential to contain polychlorinated biphenyls (PCBs). Although PCBs are no longer commercially produced in the United States, they may be present in U.S. products that were produced prior to 1979, and may still be commercially available from other countries. Fluorescent bulbs, thermostats, and thermometers may contain mercury and can be treated as Universal Waste, which are streamlined standards for managing common types of hazardous waste.

If obtained, photographs of hazardous materials for the above referenced property are included in **Attachment: Site Photographs**.

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

The property was inspected for the presence of asbestos-containing materials (ACMs) in order to meet the requirements of 40 CFR, Part 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP).

Asbestos Inspection

The property was inspected for the presence of suspected ACMs. Typical building materials that may contain asbestos included drywall, plaster, stucco, floor tiles, roofing felt and shingles, ceiling tiles, insulation, pipe insulation, and duct insulation.

Sample Collection

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

Pre-Demolition Environmental Inspection Procedures

At least two samples of each suspected asbestos containing material identified during the inspection was collected. For surfacing materials (sprayed and/or troweled on) a minimum of three samples were collected for areas that contained less than 1000 square feet of the material; 5 samples were collected for materials 1000 to 5000 square feet, and 7 samples were taken for areas greater than 5000 square feet. A Michigan Accredited Asbestos Inspector collected representative samples of each suspected ACM. Each sample was placed into a sealed plastic bag and labeled. A description of the material and location of the sample collected was recorded in the field notes. The total quantity of each suspected ACM was estimated and recorded in the field notes.

A listing of suspect ACMs at this property that were sampled and sent to the laboratory for analysis is included in **Table 2**. A copy of a floor plan showing sample locations is included in **Attachment: Site Drawing**.

Laboratory Analysis / Results

Each sample of suspect ACM collected at this property was analyzed for asbestos content using polarized light microscopy (PLM) by a NVLAP and NIST accredited laboratory in accordance with 40 CFR Ch. I (1-1-87 Edition) Part 763, Subpart F, Appendix A, pp. 293-299. Asbestos containing materials are defined as materials that contain greater than one percent (>1%) asbestos.

Each sample collected for analysis was delivered to either IATL (International Asbestos Testing Laboratories), 9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054, ETL (Environmental Testing Laboratories), 38900 W. Huron River Drive, Suite 200, Romulus, MI 48174, and/or ACM Engineering & Environmental Services, 26598 US Highway 20 West, South Bend, IN 46628. Laboratory results are included in **Attachment: Laboratory Analytical Results**.

SIGNATURE

This report was prepared based on the site conditions that existed at the time of the inspection, sample collection, and the laboratory analytical results.

Wade Wiltse

Prepared by: _____

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
 3024 Turner Street
 Lansing, MI 48906

Parcel:	33-01-01-22-303-011
House No:	710 Beulah St, Lansing, MI 48911
Date Inspected:	12/3/2017 & 2/16/2018
Inspected By:	Jake Gleason & Wade Wiltse
Inspectors State Card #	A-49991

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	2000 SF	Garage Square Footage	NA
Basement Square Footage	800 SF	Garage Siding	NA
Siding	Transite	Garage Color	NA
Color	White/pink	Garage Shingles	NA
Roof Shingles	Asphalt Shingles	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-303-011
House No. 710 Beulah St, Lansing, MI 48911
Date Inspected: 12/3/2017 & 2/16/2018

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Water Heater	1	Room 8
Misc. Items (joint compound)	3	Room 15
Paint Can	1	Room 8
Thermostat	1	Room 1

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-303-011
 House No. 710 Beulah St, Lansing, MI 48911
 Date Inspected: 12/3/2017 & 2/16/2018

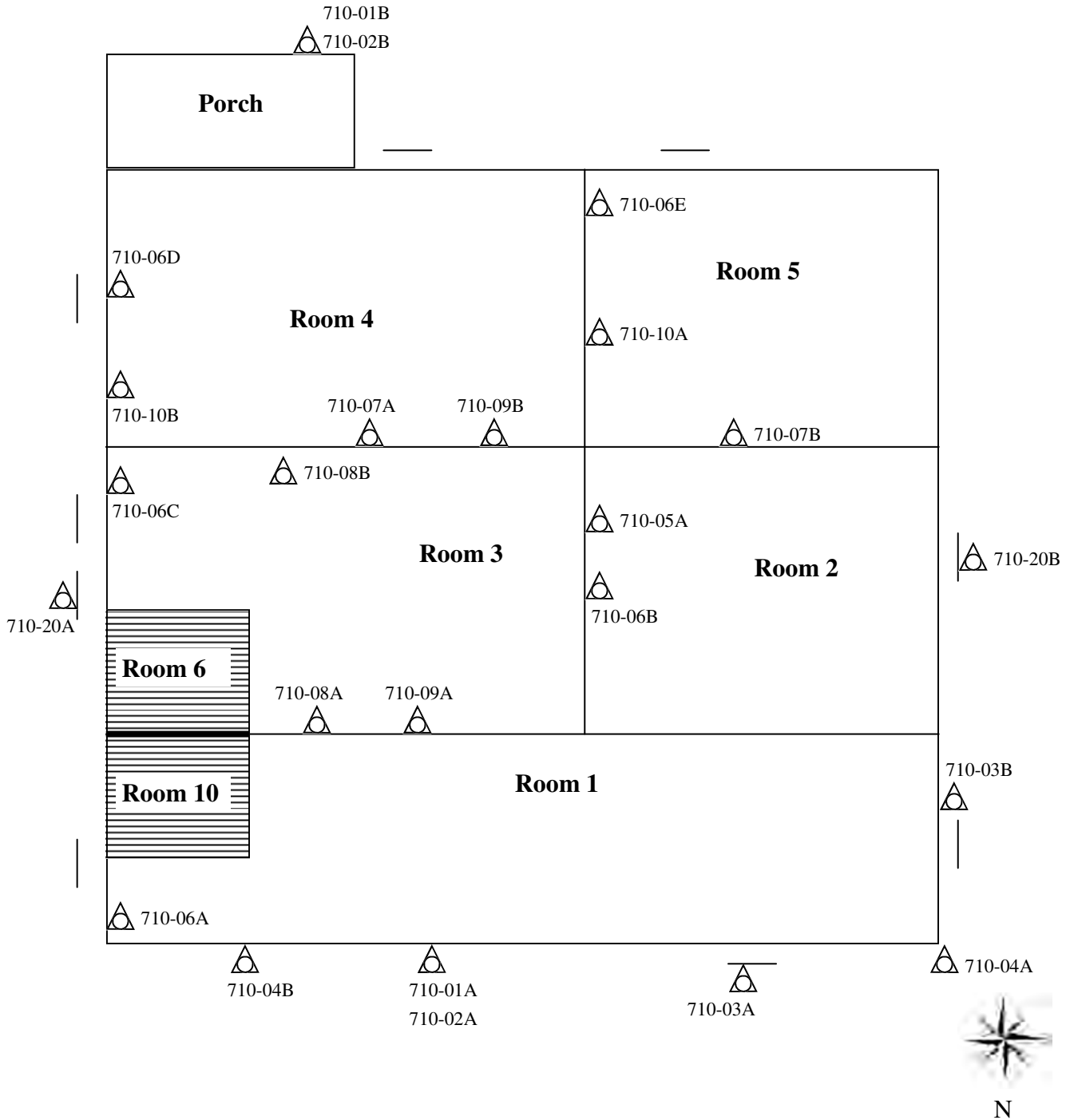
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS


Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	House wrap, brown	Exterior (house)	1500 SF	No
2	F	Transite, white/pink	Exterior (house)	1500 SF	YES
3	F	Window glaze, white	Exterior (house)	25 windows	No
4	NF	Asphalt shingle, black	Exterior (house)	1200 SF	No
5	F	Duct wrap, grey	Rooms 2, 13, 14	20 SF	YES
6	NF	Plaster, grey	Throughout	4800 SF	No
7	NF	Drywall, white	Room 4, 5	850 SF	No
8	NF	Ceiling tile 2x4, white w/ holes	Room 3	117 SF	No
9	F	Underlayment, tan	Rooms 3, 4	117 SF	No
10	NF	Peel and stick 12x12, grey	Rooms 3, 4, 5	220 SF	No
11	NF	Hard board, brown/tan	Room 12	250 SF	No
12	F	Blown-in insulation, grey	Rooms 11-15	1926 SF	No
13	NF	Wire insulation, black	Throughout	20 SF	No
14	NF	12x12 Floor tile, grey/white	Room 12	70 SF	No
16	NF	Basement floor concrete, grey	Rooms 7, 8, 9	370 SF	No
17	NF	Stack cement, grey	Room 7	1 SF	No
18	NF	Basement wall concrete, grey	Rooms 7, 8, 9	1100 SF	No
19	NF	Chimney concrete block, grey	Room 7	120 SF	No
20	NF	Window caulk, white	Room 19	10 SF	No

Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

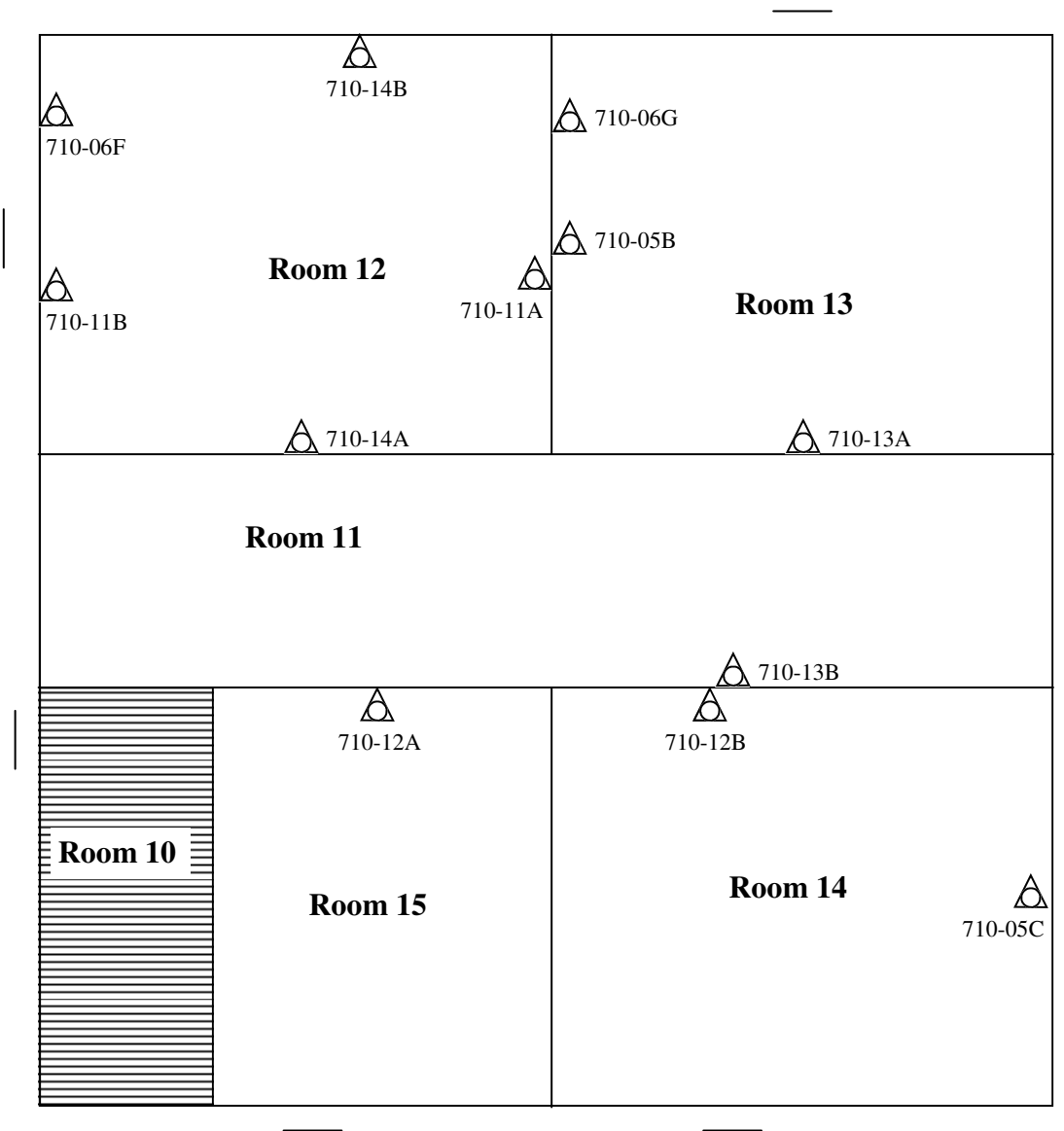
Attachment:


Site Drawing



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

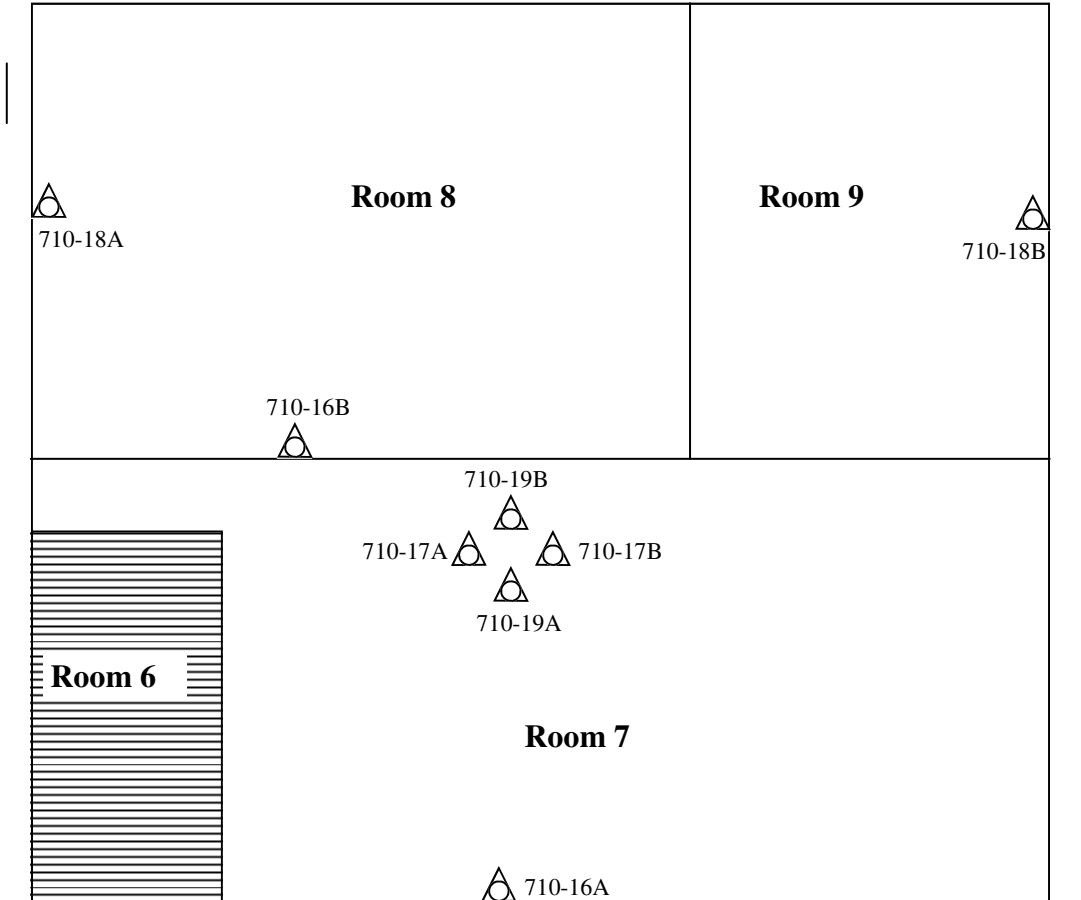


 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Basement

33-01-01-22-303-011
710 Beulah St, Lansing, MI 48911
12/3/2017 & 2/16/2018



N



Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Ingham County Land Bank
199862

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-22-303-011
House No. 710 Beulah St, Lansing, MI 48911
Date Inspected: 12/3/2017 & 2/16/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-22-303-011
House No. 710 Beulah St, Lansing, MI 48911
Date Inspected: 12/3/2017 & 2/16/2018



Misc. Items (joint compound)



Thermostat



Water Heater



Paint Can

Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-22-303-011
House No. 710 Beulah St, Lansing, MI 48911
Date Inspected: 12/3/2017 & 2/16/2018



Transite, white/pink



Duct wrap, grey

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

REVISED REPORT

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Project Location :
710 Beulah St, Lansing, MI

Attention :

Client Project : 33-01-01-22-303-011

ETC Job : 199862

Report Date : 3/12/2018

Login #	Sample ID	Work Requested	Completed
634928	1A	Asbestos Analysis	12/08/2017
634929	1B	Asbestos Analysis	12/08/2017
634930	2A	Asbestos Analysis	12/08/2017
634931	2B	Asbestos Analysis	12/08/2017
634932	3A	Asbestos Analysis	12/08/2017
634933	3B	Asbestos Analysis	12/08/2017
634934	4A	Asbestos Analysis	12/08/2017
634935	4B	Asbestos Analysis	12/08/2017
688562	05A	Asbestos Analysis	12/08/2017
688563	05B	Asbestos Analysis	02/20/2018
688564	05C	Asbestos Analysis	02/20/2018
688565	06A	Asbestos Analysis	02/20/2018
688566	06B	Asbestos Analysis	02/20/2018
688567	06C	Asbestos Analysis	02/20/2018
688568	06D	Asbestos Analysis	02/20/2018
688569	06E	Asbestos Analysis	02/20/2018
688570	06F	Asbestos Analysis	02/20/2018
688571	06G	Asbestos Analysis	02/20/2018
688572	07A	Asbestos Analysis	02/20/2018
688573	07B	Asbestos Analysis	02/20/2018

This report is intended for use solely by the individual or entity to which it is addressed. This report may not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. It may contain information that is privileged, confidential and otherwise exempt by law from disclosure. If the reader of this information is not the intended recipient or an employee of its intended recipient, you are herewith notified that any dissemination, distribution or copying of this information is strictly prohibited. If you have received this information in error, please notify ETL immediately. Thank you.

Login #	Sample ID	Work Requested	Completed
688574	8A	Asbestos Analysis	02/20/2018
688575	8B	Asbestos Analysis	02/20/2018
688576	9A	Asbestos Analysis	02/20/2018
688577	9B	Asbestos Analysis	02/20/2018
688578	10A	Asbestos Analysis	02/20/2018
688579	10B	Asbestos Analysis	02/20/2018
688580	11A	Asbestos Analysis	02/20/2018
688581	11B	Asbestos Analysis	02/20/2018
688582	12A	Asbestos Analysis	02/20/2018
688583	12B	Asbestos Analysis	02/20/2018
688584	13A	Asbestos Analysis	02/20/2018
688585	13B	Asbestos Analysis	02/20/2018
688586	14A	Asbestos Analysis	02/20/2018
688587	14B	Asbestos Analysis	02/20/2018
688588	15A	Asbestos Analysis	02/20/2018
688589	15B	Asbestos Analysis	02/20/2018
688590	16A	Asbestos Analysis	02/20/2018
688591	16B	Asbestos Analysis	02/20/2018
688592	17A	Asbestos Analysis	02/20/2018
688593	17B	Asbestos Analysis	02/20/2018
688594	18A	Asbestos Analysis	02/20/2018
688595	18B	Asbestos Analysis	02/20/2018
688596	19A	Asbestos Analysis	02/20/2018
688597	19B	Asbestos Analysis	02/20/2018
688598	20A	Asbestos Analysis	02/20/2018
688599	20B	Asbestos Analysis	02/20/2018
688600	21A	Asbestos Analysis	02/20/2018

Login #	Sample ID	Work Requested	Completed
688601	21B	Asbestos Analysis	02/20/2018
688602	22A	Asbestos Analysis	02/20/2018
688603	22B	Asbestos Analysis	02/20/2018
688604	23A	Asbestos Analysis	02/20/2018
688605	23B	Asbestos Analysis	02/20/2018
688606	24A	Asbestos Analysis	02/20/2018
688607	24B	Asbestos Analysis	02/20/2018
688608	25A	Asbestos Analysis	02/20/2018
688609	25B	Asbestos Analysis	02/20/2018
688610	26A	Asbestos Analysis	02/20/2018
688611	26B	Asbestos Analysis	02/20/2018
688612	27A	Asbestos Analysis	02/20/2018
688613	27B	Asbestos Analysis	02/20/2018

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 710 Beulah St, Lansing, MI

ETC Job : 199862
Client Project : 33-01-01-22-303-011
Date Collected : 12/03/2017
Date Received : 12/05/2017
Date Analyzed : 12/08/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634928 1A Front Entry W Analyst: Renee Renauer	House Wrap	Brown Fibrous Homogenous	85% Cellulose	15% Other	None Detected
634929 1B Back Entry W Analyst: Renee Renauer	House Wrap	Brown Fibrous Homogenous	85% Cellulose	15% Other	None Detected
634930 2A Front Entry W Analyst: Renee Renauer	Transite	White/Pink Non-Fibrous Homogenous	2% Cellulose	88% Other	10% Chrysotile
634931 2B Back Entry W Analyst: Renee Renauer		Not Analyzed			
634932 3A Front Window Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
634933 3B W Side N Window Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
634934 4A W Side Porch Analyst: Renee Renauer	Asphalt Shingle	Black Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 710 Beulah St, Lansing, MI

ETC Job : 199862
Client Project : 33-01-01-22-303-011
Date Collected : 12/03/2017
Date Received : 12/05/2017
Date Analyzed : 12/08/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634935 4B E Side Porch Analyst: Renee Renauer	Asphalt Shingle	Black Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
688562 05A 2 E Wall at Floor Analyst: Scott Larabell	Duct Wrap	Grey Fibrous Homogenous	20% Cellulose	55% Other	25% Chrysotile
688563 05B 13 E Wall at Floor Analyst: Scott Larabell		Not Analyzed			
688564 05C 14 W Wall at Floor Analyst: Scott Larabell		Not Analyzed			
688565 06A 1 E Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688566 06B 2 E Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688567 06C 3 E Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 710 Beulah St, Lansing, MI

ETC Job : 199862
Client Project : 33-01-01-22-303-011
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688568 06D 4 E Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688569 06E 5 E Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688570 06F 12 E Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688571 06G 13 E Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688572 07A 4 N Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
688573 07B 5 N Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
688574 8A 3 S Ceiling Analyst: Scott Larabell	Ceiling Tile	White Fibrous Homogenous	30% Cellulose 5% Fiberglass	65% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 710 Beulah St, Lansing, MI

ETC Job : 199862
Client Project : 33-01-01-22-303-011
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688575 8B 3 N Ceiling Analyst: Scott Larabell	Ceiling Tile	White Fibrous Homogenous	40% Cellulose 5% Fiberglass	55% Other	None Detected
688576 9A 3 N Floor Analyst: Scott Larabell	Underlayment	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688577 9B 4 N Floor Analyst: Scott Larabell	Underlayment	Tan Fibrous Homogenous	85% Cellulose	15% Other	None Detected
688578 10A 5 E Floor Analyst: Scott Larabell	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688579 10B 4 E Floor Analyst: Scott Larabell	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688580 11A 12 W Wall Analyst: Scott Larabell	Hard Board	Brown/Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688581 11B 12 E Wall Analyst: Scott Larabell	Hard Board	Brown/Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 710 Beulah St, Lansing, MI

ETC Job : 199862
Client Project : 33-01-01-22-303-011
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688582 12A 15 Ceiling S Analyst: Scott Larabell	Blown Insulation	Grey Fibrous Homogenous	2% Cellulose 85% Mineral wool	13% Other	None Detected
688583 12B 14 Ceiling S Analyst: Scott Larabell	Blown Insulation	Grey Fibrous Homogenous	3% Cellulose 80% Mineral wool	17% Other	None Detected
688584 13A 13 N Wall Analyst: Sarah Poirier	Wire Insulation	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
688585 13B 11 N Wall Analyst: Sarah Poirier	Wire Insulation	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
688586 14A 12 N Floor Analyst: Scott Larabell	12x12 Floor Tile	Grey/White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688587 14B 12 S Floor Analyst: Scott Larabell	12x12 Floor Tile	Grey/White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688588 15A 1 N Window Analyst: Scott Larabell	Window Glaze	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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 Romulus, MI 48174

Location :
 710 Beulah St, Lansing, MI

ETC Job : 199862
Client Project : 33-01-01-22-303-011
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688589 15B 2 W Window Analyst: Scott Larabell	Window Glaze	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688590 16A 7 N Floor Analyst: Scott Larabell	Basement Floor Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688591 16B 8 N Floor Analyst: Scott Larabell	Basement Floor Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688592 17A 7 on the stack Analyst: Scott Larabell	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688593 17B 7 on the stack Analyst: Scott Larabell	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688594 18A 8 E Wall Analyst: Scott Larabell	Basement Wall Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688595 18B 9 W Wall Analyst: Scott Larabell	Basement Wall Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 710 Beulah St, Lansing, MI

ETC Job : 199862
Client Project : 33-01-01-22-303-011
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688596 19A 7 on the chimney Analyst: Scott Larabell	Chimney Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688597 19B 7 on the chimney Analyst: Scott Larabell	Chimney Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688598 20A 3 E Window Analyst: Scott Larabell	Window Caulk	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688599 20B 2 W Window Analyst: Scott Larabell	Window Caulk	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688600 21A E Wall Ext Analyst: Scott Larabell	Transite	Brown/White Non-Fibrous Homogenous	15% Cellulose	65% Other	20% Chrysotile
688601 21B W Wall Ext Analyst: Scott Larabell		Not Analyzed			
688602 22A E Wall Ext Analyst: Scott Larabell	House Wrap	Black Fibrous Homogenous	85% Cellulose	15% Other	None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 710 Beulah St, Lansing, MI

ETC Job : 199862
Client Project : 33-01-01-22-303-011
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688603 22B W Wall Ext Analyst: Scott Larabell	House Wrap	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688604 23A E Wall Ext Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688605 23B W Wall Ext Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688606 24A E Wall Ext Analyst: Scott Larabell	House Wrap	Brown Fibrous Homogenous	85% Cellulose	15% Other	None Detected
688607 24B W Wall Ext Analyst: Scott Larabell	House Wrap	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
688608 25A NE Roof Ext Analyst: Scott Larabell	Shingle Asphalt	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688609 25B NW Roof Ext Analyst: Scott Larabell	Shingle Asphalt	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 710 Beulah St, Lansing, MI

ETC Job : 199862
Client Project : 33-01-01-22-303-011
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688610 26A NE Roof Ext Analyst: Scott Larabell	Shingle	Brown Stone Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688611 26B NW Roof Ext Analyst: Scott Larabell	Shingle	Brown Stone Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688612 27A NE Ext Roof Analyst: Scott Larabell	Asphalt Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688613 27B NW Ext Roof Analyst: Scott Larabell	Asphalt Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Renee Renauer



Analyst: Sarah Poirier



Analyst: Scott Larabell



Certificate of Analysis

Environmental Testing Laboratories, Inc.



38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Location :

710 Beulah St, Lansing, MI

ETC Job : 199862

Client Project : 33-01-01-22-303-011

Date Collected : 02/16/2018

Date Received : 02/19/2018

Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
--------	-------------	------------	-----------	---------------	------------

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")

Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples

Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples

EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials

EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

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ENVIRONMENTAL TESTING LABORATORIES, INC

38900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2etl.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199802

Client: ETC	Contact: <u>Liv Hagerman</u>	Project Location/Name: <u>716 Beulah St. Lansing MI</u>
Address: <u>721 N. Capitol Ave. Suite 3, Lansing, MI 48906</u>	Phone: (734) 955-6600	Client Project #: <u>199802</u>
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other	Fax: (734) 955-6604	Date Sampled: <u>12/3/17</u>
	E-mail: <u>results@2etl.com</u>	

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other _____

PLM Instructions
(Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input type="checkbox"/> Stop at 1st Positive - <i>Clearly mark Homogenous Group</i>
<input type="checkbox"/> Point Counting: 400 Points*	<input type="checkbox"/> Soil or Vermiculite Analysis *
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	<u>01 A-B</u>		
		<u>please see attached sheet</u>	
	<u>04-A-B</u>		

	Date	Time
Relinquished (Name/Organization): <u>Jake Gleason</u>	<u>12/3/17</u>	<u>5:00</u> am/pm
Received (Name/ETL): <u>[Signature]</u>	<u>12/5/17</u>	am/pm
Stereoscopical Analysis (Name/ETL): <u>[Signature]</u>	<u>12-6-17</u>	am/pm
Sample Login (Name/ETL): <u>[Signature]</u>	<u>12/5/17</u>	am/pm
Analysis (Name/ETL): <u>[Signature]</u>	<u>12-6-17</u>	am/pm
QA/QC Review (Name/ETL): <u>[Signature]</u>	<u>12/8/17</u>	am/pm

Special Instructions:	Remarks:
------------------------------	-----------------

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: 710 Beulah Lansing, MI		Date: 12/3/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location		
1	Material: House wrap Description: brown	NF	A B	front entry w928 back entry w929 634	1500	
2	Material: transite Description: white/pink	f	A B	front entry w930 front back entry w931	1500	
3	Material: window glare Description: white	f	A B	front window w932 W side N window w933	25 wind	
4	Material: Asphalt Shingle Description: black	NF	A B	W side porch 934 E side porch 935	600	
	Material: Description		A B			
	Material: Description		A B			
	Material: Description		A B			
	Material: Description		A B			
	Material: Description		A B			
	Material: Description		A B			
	Material: Description		A B			
	Material: Description		A B			

**Bulk Asbestos
 Chain of Custody**

ETL Project #: **199862**

Client: ETC	Contact:	Project Location/Name: 710 BELLAH CAUSING, MI 48011
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600 Fax: (734) 955-6604 E-mail: results@2etl.com	Client Project #: 199862
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		Date Sampled: 2-16-18

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other

PLM Instructions
 (Check all that apply)

- PLM EPA800/R-93/116, 1993 (Standard method)
- Point Counting: 400 Points*
- PLM Non-Building Material (Dust, Wipe, Tape)
- Stop at 1st Positive -
Clearly mark Homogeneous Group
- Soil or Vermiculite Analysis *

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	05A, B, C		
	06A-G		
	07A, B		
	↓		
	27AB		

Relinquished (Name/Organization):	<i>[Signature]</i>	Date	Time
Received (Name/ETL):	<i>Rosemary Serpardo</i>	2-16-18	3:10 am/pm
Stereoscopical Analysis (Name/ETL):	<i>[Signature]</i>	2-19-18	am/pm
Sample Login (Name/ETL):	<i>Rosemary Serpardo</i>	2-20-18	am/pm
Analysis (Name/ETL):	<i>[Signature]</i>	2-19-18	am/pm
QA/QC Review (Name/ETL):	<i>Amir Alsmailigi</i>	2-20-18	am/pm
Special Instructions:		2-20-18	12:49 am/pm
Remarks:			

Asbestos Material Sampling Summary Sheet TSI (Thermal System Insulation) materials

Revision date 5/7/2015

Job #:	Building:			Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199862	110 Benah			2/16/18			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
05	Material: Duct wrap 688562 Description: # green 503 562	F	A	2 E wall at floor		20 SF	
	Material: # green 503 562 Description:	F	B	13 E wall out floor			
	Material: # green 503 562 Description:	F	C	14 W wall at floor			
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						

3 samples with the exception of patches less than 6 LF or 6 SF, then only 1 sample

396

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	199867		Building:	710 Beulah			Date:	2/10/18	
Material no.	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
	Material:	Plaster							
06	grey		N	A	1 E Wall	th roughen +			
				B	2 E Wall				
				C	3 E Wall				
				D	4 E Wall				
				E	5 E Wall				
				F	12 E Wall				
				G	13 E Wall				
	Material:								
	Material:								

<1000 SF = 3 samples

1000 - <5000 = 5 samples

Z of P

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199862		Building:	D10 Benlah		Date:	2/16/18	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
07	Material: Dry wall	N	A	4 N wall	688572	A/S	850 SF	
	Description: white		B	5 N wall				573
08	Material: Ceiling tile	N	A	43 S ceiling	574	3	117 SF	
	Description: 2x4 white with holes		B	43 N ceiling				575
09	Material: under laminant	Y	A	3 N floor	576	3/4	117 SF	
	Description: tan		B	4 N floor				577
10	Material: Paul and stick	N	A	5 E wash floor	578	3/4/5	220 SF	
	Description: grey 12x12		B	4 E wash floor				579
11	Material: Hard Board	N	A	12 W wall	580	12	250 SF	
	Description: Brown/tan		B	12 N/E wall				581
12	Material: Blown in	Y	A	15 ceiling S	582	12	250 SF	
	Description: Grey		B	14 ceiling S				583
13	Material: Wire insulation	N	A	13 N wall	584	throughout	20 SF	
	Description: Black		B	11 N wall				585
14	Material: 12x12 Floor tile	N	A	12 N floor	586	12	70 SF	
	Description: Grey white		B	12 S floor				587
15	Material: Window Glaze	N	A	1 N window	588	19 units	19	
	Description: Grey		B	2 W window				589
16	Material: Basement Floor Concrete	N	A	7 N floor	590	D/8/9	370 SF	
	Description: Grey		B	128 N floor				591

4 of 6

2 samples

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building:	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
1991 862			760			Beulah	2/16/18			
15		Material: Steel cement Description: Gray		N	A	on the Stuck	688592		19F	
18		Material: Basement wall concrete Description: Gray		N	A	on the Stuck	593			
19		Material: Chimney concrete block Description: Gray		N	A	8 E Wnd	594	7/8/14	1000	
20		Material: Window Cank Description: white		N	A	9 W Wnd	595		1000	
21		Material: translucent Description: Brown/white		N	A	on the Chimney	596		120	
22		Material: Horse wrap Description: Black		Y	A	on the Chimney	597		10	
23		Material: Horse wrap Description: tan		Y	A	3 E window	598	19		
24		Material: Horse wrap Description: Brown		Y	A	3 W window	599			
25		Material: Shingle Hempult Description: Gray Stone		N	A	E Wnd ext	600	ext		
26		Material: Shingle Description: Brown Stone		N	A	W Wnd ext	601	ext		
					A	E Wnd ext	602	ext		
					B	W Wnd ext	603	ext		
					A	E Wnd ext	604	ext		
					B	W Wnd ext	605	ext		
					A	E Wnd ext	606	ext		
					B	W Wnd ext	607	ext		
					A	NE Roof ext	608	ext		
					B	NW Roof ext	609	ext		
					A	NE Roof ext	610	ext		
					B	NW Roof ext	611	ext		

596

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199862	75	Asphalt Shingle	N	A	NE ext Roof (886)	7/6/18	Roof		
		Material: Description		B	NW ext Roof (13)				
		Material: Description		A					
		Material: Description		B					
		Material: Description		A					
		Material: Description		B					
		Material: Description		A					
		Material: Description		B					
		Material: Description		A					
		Material: Description		B					
		Material: Description		A					
		Material: Description		B					
		Material: Description		A					
		Material: Description		B					
		Material: Description		A					
		Material: Description		B					

686

2 samples

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

A table showing hazardous materials, above the household quantity limitations, found at the house is included as **Table 1: Hazardous Materials**. This table lists non-asbestos materials that may be hazardous and require special handling and disposal requirements. Items that might be in this category include: mercury switches, fluorescent lighting tubes and ballasts, halogen lights, Freon in refrigeration units, pesticides, herbicides, paints, solvents, etc.

Under the Resource Conservation and Recovery Act (RCRA) that addresses hazardous wastes, there is a residential household quantity exclusion. Materials are listed in Table I if they are present in quantities larger than what would typically be expected to be used and disposed in a normal household, and/or may require special handling and disposal requirements, such as: paints, solvents, adhesives, oils, tires, large circuit boards (such as televisions, computers, and security systems), prescription drugs, and syringes. On the other hand, if there were only household sized containers of maintenance, cleaning, non-prescription health and personal hygiene products, radios, and controllers present, as would be found in most homes, these materials would not be listed.

Fluorescent lighting systems have ballasts that have the potential to contain polychlorinated biphenyls (PCBs). Although PCBs are no longer commercially produced in the United States, they may be present in U.S. products that were produced prior to 1979, and may still be commercially available from other countries. Fluorescent bulbs, thermostats, and thermometers may contain mercury and can be treated as Universal Waste, which are streamlined standards for managing common types of hazardous waste.

If obtained, photographs of hazardous materials for the above referenced property are included in **Attachment: Site Photographs**.

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

The property was inspected for the presence of asbestos-containing materials (ACMs) in order to meet the requirements of 40 CFR, Part 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP).

Asbestos Inspection

The property was inspected for the presence of suspected ACMs. Typical building materials that may contain asbestos included drywall, plaster, stucco, floor tiles, roofing felt and shingles, ceiling tiles, insulation, pipe insulation, and duct insulation.

Sample Collection

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

Pre-Demolition Environmental Inspection Procedures

At least two samples of each suspected asbestos containing material identified during the inspection was collected. For surfacing materials (sprayed and/or troweled on) a minimum of three samples were collected for areas that contained less than 1000 square feet of the material; 5 samples were collected for materials 1000 to 5000 square feet, and 7 samples were taken for areas greater than 5000 square feet. A Michigan Accredited Asbestos Inspector collected representative samples of each suspected ACM. Each sample was placed into a sealed plastic bag and labeled. A description of the material and location of the sample collected was recorded in the field notes. The total quantity of each suspected ACM was estimated and recorded in the field notes.

A listing of suspect ACMs at this property that were sampled and sent to the laboratory for analysis is included in **Table 2**. A copy of a floor plan showing sample locations is included in **Attachment: Site Drawing**.

Laboratory Analysis / Results

Each sample of suspect ACM collected at this property was analyzed for asbestos content using polarized light microscopy (PLM) by a NVLAP and NIST accredited laboratory in accordance with 40 CFR Ch. I (1-1-87 Edition) Part 763, Subpart F, Appendix A, pp. 293-299. Asbestos containing materials are defined as materials that contain greater than one percent (>1%) asbestos.

Each sample collected for analysis was delivered to either IATL (International Asbestos Testing Laboratories), 9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054, ETL (Environmental Testing Laboratories), 38900 W. Huron River Drive, Suite 200, Romulus, MI 48174, and/or ACM Engineering & Environmental Services, 26598 US Highway 20 West, South Bend, IN 46628. Laboratory results are included in **Attachment: Laboratory Analytical Results**.

SIGNATURE

This report was prepared based on the site conditions that existed at the time of the inspection, sample collection, and the laboratory analytical results.

Prepared by: Wade Wiltse Jake Gleason

Jake Gleason & Wade Wiltse, Michigan Certified Asbestos Inspector (s)
Michigan Accreditation Number (s) A-49991

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-21-428-035
House No:	621 Baker St 1, Lansing, MI 48910
Date Inspected:	12/20/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information

No. Stories	2	Garage	No Garage
Square Footage	1518 SF	Garage Square Footage	NA
Basement Square Footage	756 SF	Garage Siding	NA
Siding	Vinyl	Garage Color	NA
Color	Light Blue	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-428-035
House No. 621 Baker St 1, Lansing, MI 48910
Date Inspected: 12/20/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Heater	1	Room 17
TV Screens, Electronics	8	Room 2, 4, 12, 15, 16
Paint Cans	2 (1 gallon)	Room 2, 17
Smoke Detectors	2	Room3, 11

TIRE(s) REPORT

Material	Quantity & Units	Location
-----------------	-----------------------------	-----------------

None observed above household quantities		
--	--	--

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-428-035
 House No. 621 Baker St 1, Lansing, MI 48910
 Date Inspected: 12/20/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Plaster, grey	Throughout	8258 SF	YES
2	F	Skim coat, white	Room 13	480 SF	No
3	F	Texture, white	Throughout	7553 SF	No
4	F	Duct wrap, grey	Room 2, 3, 10	342 SF	YES
5	F	Drywall, white	Room 3	120 SF	No
6	NF	Mud, white	Room 3	40 SF	No
7	NF	Tape, white	Room 3	40 SF	No
8	NF	Tape, tape	Room 6	50 SF	No
9	NF	Mud, white	Room 6	50 SF	No
10	NF	12x12 Peel and stick, green	Room 5	48 SF	No
11	NF	12x12 Floor tile, white	Room 5	48 SF	No
12	NF	Mastic, black	Room 5	48 SF	No
13	NF	Linoleum, white	Room 6	273 SF	No
14	F	Blown-in-insulation, brown	Room 18	900 SF	No
15	NF	Linoleum, white	Room 16	210 SF	No
16	NF	Linoleum, cream	Room 14	54 SF	No
17	NF	Concrete wall, grey	Room 10, 17	770 SF	No
18	NF	Mortar, grey	Room 10, 17	700 SF	No
19	NF	Concrete floor, grey	Room 10, 17	756 SF	No
20	NF	Brick, read/peach	Room 10, 17 (chimney)	428 SF	No

Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-428-035
 House No. 621 Baker St 1, Lansing, MI 48910
 Date Inspected: 12/20/2017

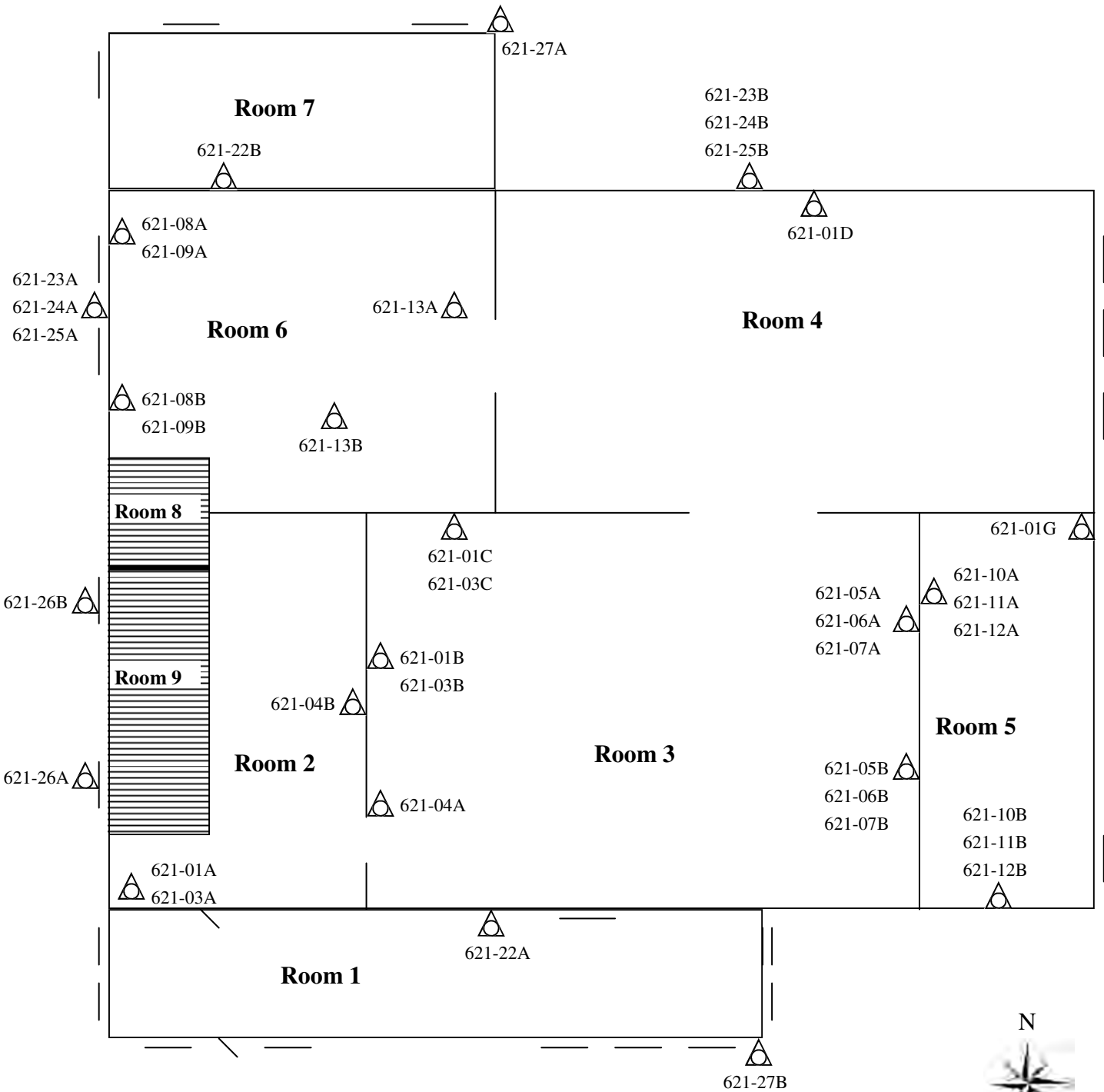
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
21	NF	Mortar, grey	Room 10, 17 (chimney)	300 SF	No
22	NF	House wrap, tan	Exterior	6004 SF	No
23	NF	Transite, white	Exterior	6004 SF	YES
24	NF	Fiberboard, black	Exterior	6004 SF	No
25	NF	Foam paper, tan	Exterior	6004 SF	No
26	NF	Window glaze, white	Exterior	21 windows	No
27	NF	Shingle, black/white	Exterior	6200 SF	No

Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

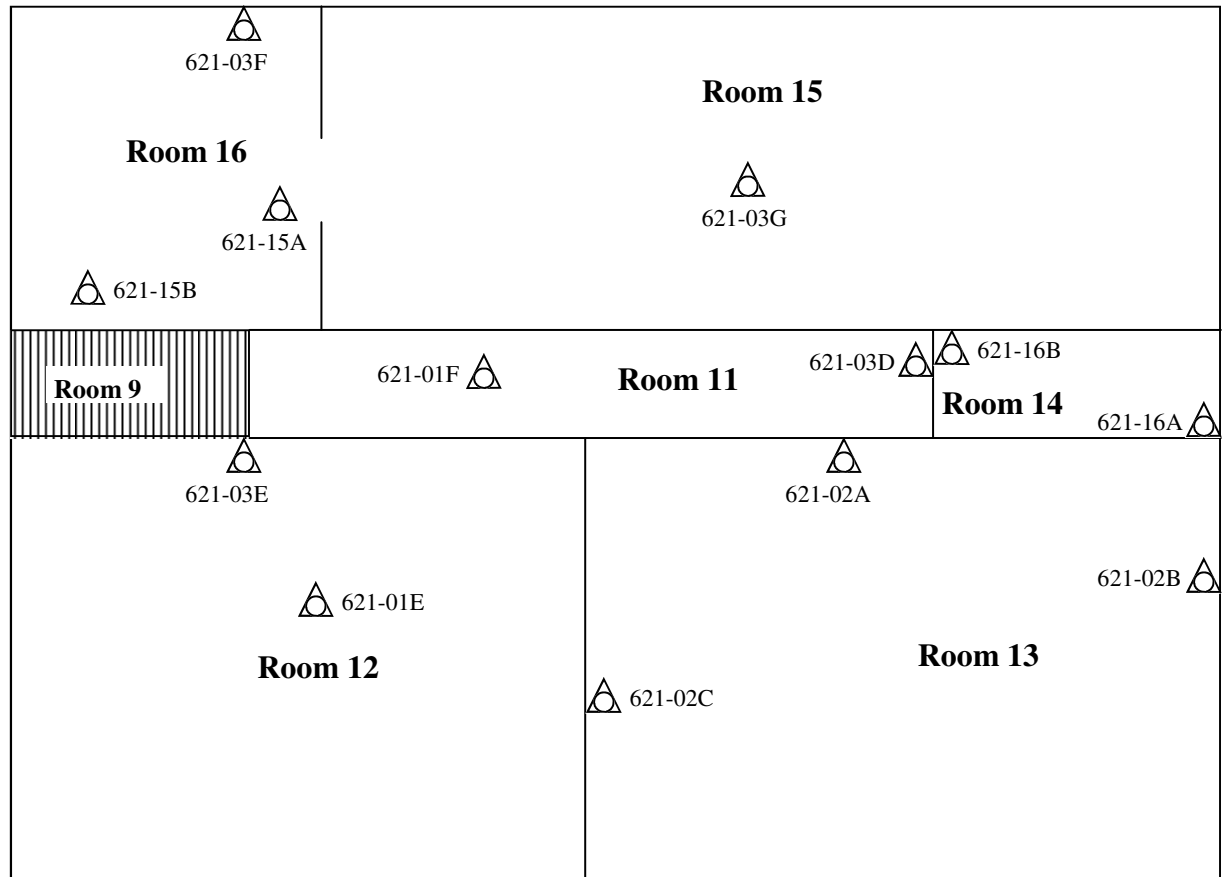
Attachment:

Site Drawing



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

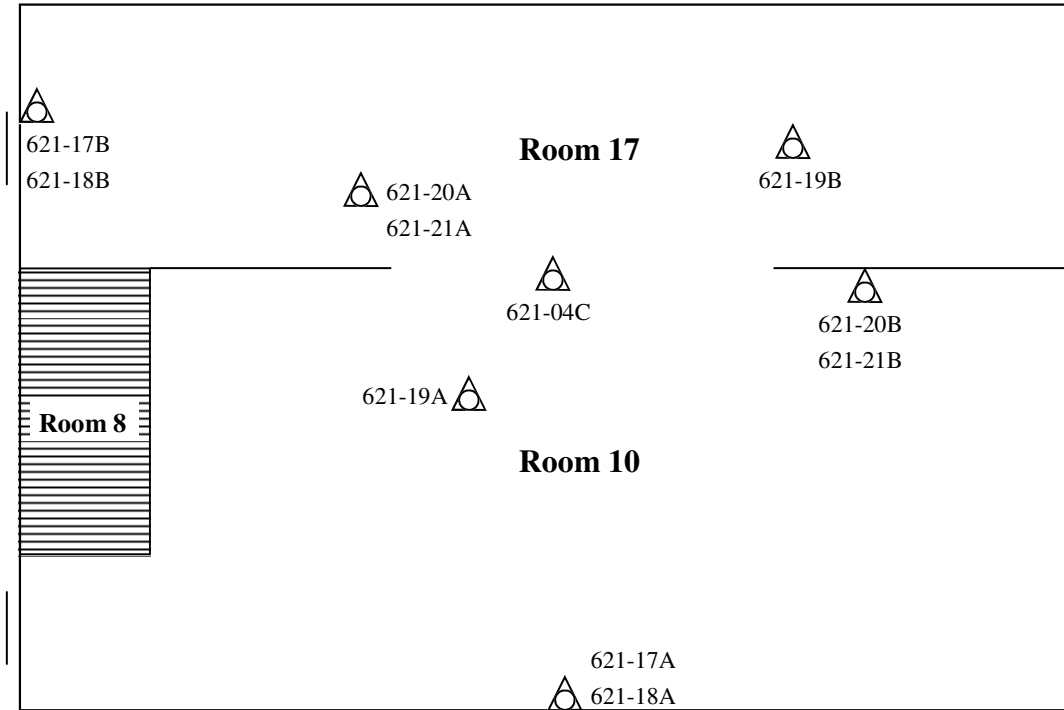


 Sample Location

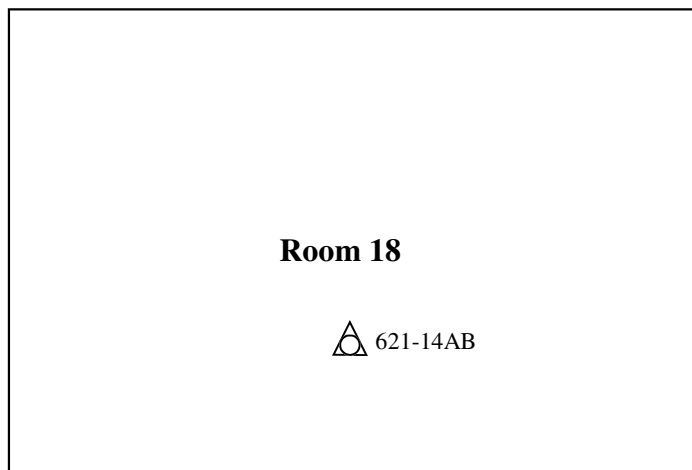
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Basement

33-01-01-21-428-035
621 Baker St 1, Lansing, MI 48910
12/20/2017



Attic



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-21-428-035
House No. 621 Baker St 1, Lansing, MI 48910
Date Inspected: 12/20/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-21-428-035
House No. 621 Baker St 1, Lansing, MI 48910
Date Inspected: 12/20/2017



Hot Water Heater



TV, Electronics



Paint Cans



Smoke Detector

Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-21-428-035
House No. 621 Baker St 1, Lansing, MI 48910
Date Inspected: 12/20/2017



Plaster



Duct Wrap



Transite

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Project Location :
621 Baker St 1, Lansing, MI

Attention :

Client Project : 33-01-01-21-428-035

ETC Job : 199854

Report Date : 12/26/2017

Login #	Sample ID	Work Requested	Completed
643068	01A	Asbestos Analysis	12/26/2017
643069	01B	Asbestos Analysis	12/26/2017
643070	01C	Asbestos Analysis	12/26/2017
643071	01D	Asbestos Analysis	12/26/2017
643072	01E	Asbestos Analysis	12/26/2017
643073	01F	Asbestos Analysis	12/26/2017
643074	01G	Asbestos Analysis	12/26/2017
643075	02A	Asbestos Analysis	12/26/2017
643076	02B	Asbestos Analysis	12/26/2017
643077	02C	Asbestos Analysis	12/26/2017
643078	03A	Asbestos Analysis	12/26/2017
643079	03B	Asbestos Analysis	12/26/2017
643080	03C	Asbestos Analysis	12/26/2017
643081	03D	Asbestos Analysis	12/26/2017
643082	03E	Asbestos Analysis	12/26/2017
643083	03F	Asbestos Analysis	12/26/2017
643084	03G	Asbestos Analysis	12/26/2017
643085	04A	Asbestos Analysis	12/26/2017
643086	04B	Asbestos Analysis	12/26/2017
643087	04C	Asbestos Analysis	12/26/2017

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Login #	Sample ID	Work Requested	Completed
643088	05A	Asbestos Analysis	12/26/2017
643089	05B	Asbestos Analysis	12/26/2017
643090	06A	Asbestos Analysis	12/26/2017
643091	06B	Asbestos Analysis	12/26/2017
643092	07A	Asbestos Analysis	12/26/2017
643093	07B	Asbestos Analysis	12/26/2017
643094	08A	Asbestos Analysis	12/26/2017
643095	08B	Asbestos Analysis	12/26/2017
643096	09A	Asbestos Analysis	12/26/2017
643097	09B	Asbestos Analysis	12/26/2017
643098	10A	Asbestos Analysis	12/26/2017
643099	10B	Asbestos Analysis	12/26/2017
643100	11A	Asbestos Analysis	12/26/2017
643101	11B	Asbestos Analysis	12/26/2017
643102	12A	Asbestos Analysis	12/26/2017
643103	12B	Asbestos Analysis	12/26/2017
643104	13A	Asbestos Analysis	12/26/2017
643105	13B	Asbestos Analysis	12/26/2017
643106	14A	Asbestos Analysis	12/26/2017
643107	14B	Asbestos Analysis	12/26/2017
643108	15A	Asbestos Analysis	12/26/2017
643109	15B	Asbestos Analysis	12/26/2017
643110	16A	Asbestos Analysis	12/26/2017
643111	16B	Asbestos Analysis	12/26/2017
643112	17A	Asbestos Analysis	12/26/2017
643113	17B	Asbestos Analysis	12/26/2017
643114	18A	Asbestos Analysis	12/26/2017

Login #	Sample ID	Work Requested	Completed
643115	18B	Asbestos Analysis	12/26/2017
643116	19A	Asbestos Analysis	12/26/2017
643117	19B	Asbestos Analysis	12/26/2017
643118	20A	Asbestos Analysis	12/26/2017
643119	20B	Asbestos Analysis	12/26/2017
643120	21A	Asbestos Analysis	12/26/2017
643121	21B	Asbestos Analysis	12/26/2017
643122	22A	Asbestos Analysis	12/26/2017
643123	22B	Asbestos Analysis	12/26/2017
643124	23A	Asbestos Analysis	12/26/2017
643125	23B	Asbestos Analysis	12/26/2017
643126	24A	Asbestos Analysis	12/26/2017
643127	24B	Asbestos Analysis	12/26/2017
643128	25A	Asbestos Analysis	12/26/2017
643129	25B	Asbestos Analysis	12/26/2017
643130	26A	Asbestos Analysis	12/26/2017
643131	26B	Asbestos Analysis	12/26/2017
643132	27A	Asbestos Analysis	12/26/2017
643133	27B	Asbestos Analysis	12/26/2017

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 621 Baker St 1, Lansing, MI

ETC Job : 199854
Client Project : 33-01-01-21-428-035
Date Collected : 12/20/2017
Date Received : 12/22/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643068 01A RM2 W Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	95.25% Other	PC 2.75% Chrysotile
643069 01B RM3 W Wall Analyst: Scott Larabell		Not Analyzed			
643070 01C RM3 N Wall Analyst: Scott Larabell		Not Analyzed			
643071 01D RM4 N Wall Analyst: Scott Larabell		Not Analyzed			
643072 01E RM12 Ceiling Center Analyst: Scott Larabell		Not Analyzed			
643073 01F RM11 Ceiling Center Analyst: Scott Larabell		Not Analyzed			
643074 01G RM5 N Wall Analyst: Scott Larabell		Not Analyzed			

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 Romulus, MI 48174

Location :

621 Baker St 1, Lansing, MI

ETC Job : 199854

Client Project : 33-01-01-21-428-035

Date Collected : 12/20/2017

Date Received : 12/22/2017

Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643075 02A RM13 N Wall Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643076 02B RM13 E Wall Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643077 02C RM13 W Wall Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643078 03A RM2 W Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643079 03B RM3 W Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643080 03C RM3 N Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643081 03D RM11 E Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive
 Romulus, MI 48174

Location :

621 Baker St 1, Lansing, MI

ETC Job : 199854

Client Project : 33-01-01-21-428-035

Date Collected : 12/20/2017

Date Received : 12/22/2017

Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643082 03E RM12 N Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643083 03F RM16 N Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643084 03G RM15 Center Ceiling Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643085 04A RM3 W Duct Analyst: Scott Larabell	Duct Wrap	Grey Fibrous Homogenous	15% Cellulose	65% Other	20% Chrysotile
643086 04B RM2 E Duct Analyst: Scott Larabell		Not Analyzed			
643087 04C RM9 Ceiling Duct Analyst: Scott Larabell		Not Analyzed			
643088 05A RM3 E Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 621 Baker St 1, Lansing, MI

ETC Job : 199854
Client Project : 33-01-01-21-428-035
Date Collected : 12/20/2017
Date Received : 12/22/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643089 05B RM3 E Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643090 06A RM3 E Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643091 06B RM3 E Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643092 07A RM3 E Wall Analyst: Scott Larabell	Tape	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643093 07B RM3 E Wall Analyst: Scott Larabell	Tape	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643094 08A RM6 W Wall Analyst: Scott Larabell	Tape	White Fibrous Homogenous	2% Cellulose 85% Fiberglass	13% Other	None Detected
643095 08B RM6 W Wall Analyst: Scott Larabell	Tape	White Fibrous Homogenous	3% Cellulose 80% Fiberglass	17% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive
 Romulus, MI 48174

Location :

621 Baker St 1, Lansing, MI

ETC Job : 199854

Client Project : 33-01-01-21-428-035

Date Collected : 12/20/2017

Date Received : 12/22/2017

Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643096 09A RM6 W Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643097 09B RM6 W Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643098 10A RM5 N Floor Analyst: Scott Larabell	12x12 Peel & Stick	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643099 10B RM5 S Floor Analyst: Scott Larabell	12x12 Peel & Stick	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643100 11A RM5 N Floor Analyst: Scott Larabell	12x12 Floor Tile	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643101 11B RM5 S Wall Analyst: Scott Larabell	12x12 Floor Tile	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643102 12A RM5 N Wall Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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 Romulus, MI 48174

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ETC Job : 199854

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Date Collected : 12/20/2017

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Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643103 12B RM5 S Wall Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643104 13A E Floor RM6 Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643105 13B S Floor RM6 Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
643106 14A Attic Floor Center Analyst: Scott Larabell	Blown-in Insulation	Brown Fibrous Homogenous	3% Cellulose 80% Mineral wool	17% Other	None Detected
643107 14B Attic Floor Center Analyst: Scott Larabell	Blown-in Insulation	Brown Fibrous Homogenous	5% Cellulose 75% Mineral wool	20% Other	None Detected
643108 15A RM16 E Floor Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643109 15B RM16 S Floor Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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 Romulus, MI 48174

Location :

621 Baker St 1, Lansing, MI

ETC Job : 199854

Client Project : 33-01-01-21-428-035

Date Collected : 12/20/2017

Date Received : 12/22/2017

Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643110 16A RM14 E Floor Analyst: Scott Larabell	Linoleum	Cream Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643111 16B RM14 W Floor Analyst: Scott Larabell	Linoleum	Cream Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643112 17A RM10 S Wall Analyst: Scott Larabell	Concrete Wall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643113 17B RM17 W Wall Analyst: Scott Larabell	Concrete Wall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643114 18A RM10 S Wall Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643115 18B RM17 W Wall Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643116 19A RM10 Center Floor Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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ETC Job : 199854

Client Project : 33-01-01-21-428-035

Date Collected : 12/20/2017

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643117 19B RM17 Center Floor Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643118 20A RM17 Chimney Analyst: Scott Larabell	Brick	Red/Peach Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643119 20B RM10 N Wall Analyst: Scott Larabell	Brick	Red/Peach Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643120 21A RM17 Chimney Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643121 21B RM10 N Wall Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643122 22A RM1 N Wall Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643123 22B RM7 S Wall Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	75% Cellulose	25% Other	None Detected

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ETC Job : 199854

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Date Collected : 12/20/2017

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643124 23A W Side Ext House Analyst: Scott Larabell	Transite	White Non-Fibrous Homogenous	10% Cellulose	60% Other	30% Chrysotile
643125 23B N Side Ext House Analyst: Scott Larabell		Not Analyzed			
643126 24A W Side Ext House Analyst: Scott Larabell	Fiberboard	Black Fibrous Homogenous	75% Cellulose	25% Other	None Detected
643127 24B N Side Ext House Analyst: Scott Larabell	Fiberboard	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643128 25A W Side Ext House Analyst: Scott Larabell	Foam Paper	Tan Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643129 25B N Side Ext House Analyst: Scott Larabell	Foam Paper	Tan Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643130 26A W Window Ext Analyst: Scott Larabell	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Client Project : 33-01-01-21-428-035

Date Collected : 12/20/2017

Date Received : 12/22/2017

Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643131 26B W Window Ext Analyst: Scott Larabell	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643132 27A N Roof Ext House Analyst: Scott Larabell	Shingle	Black/White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643133 27B S Roof Ext House Analyst: Scott Larabell	Shingle	Black/White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Scott Larabell

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")
 Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples
 Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples
 EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials
 EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

ENVIRONMENTAL TESTING LABORATORIES, INC

38900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2etil.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: **199854**

Client: ETC	Contact: Phone: (734) 955-6600	Project Location/name: 621 Baker
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Fax: (734) 955-6604	
E-mail: results@2etil.com		Client Project #: 199854
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		Date Sampled: 12/20/17

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other

PLM Instructions
 (Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 ABCDEFG		
	02 ABC		
	03 ABCDEFG		
	04 ABC		
	05 AB		
	20 AB		

	Date	Time
Relinquished (Name/Organization): Wade Wilko	12/20/17	am/pm
Received (Name/ETL): [Signature]	12/22/17	12 am/pm
Stereoscopical Analysis (Name/ETL): [Signature]	12-26-17	am/pm
Sample Login (Name/ETL): Brittany Miles	12/22/17	am/pm
Analysis (Name/ETL): [Signature]	12-26-17	am/pm
QA/QC Review (Name/ETL): [Signature]	12.26.17	am/pm

Special Instructions: Please Count any things less 3%

Remarks:

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building: 621 Baker St			Date: 12/20/17			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
01	Material: plaster gray	NF	A	Rm 2 west wall 0643068	Throughout	425 SF	27
			B	Rm 3 west wall 0669			
			C	Rm 3 north wall 070			
			D	Rm 4 north wall 071			
			E	Rm 12 ceiling center 072			
			F	Rm 11 ceiling center 073			
			G	Rm 5 north wall 074			
02	Material: skim coat white	NF	A	Rm 13 north wall 075	13	480 SF	33
			B	Rm 13 east wall 076			
			C	Rm 13 west wall 077			
03	Material: Texture white	NF	A	Same as 01A 078	Throughout	553 SF	27
			B	Same as 01B 079			
			C	Same as 01C 080			
			D	Rm 11 east wall 081			
			E	Rm 12 north wall 082			
			F	Rm 16 north wall 083			
			G	Rm 15 center ceiling 084			

<1000 SF = 3 samples

1000 - <5000 = 5 samples

Asbestos Material Sampling Summary Sheet TSI (Thermal System Insulation) materials

Revision date 5/7/2015

Job #:	Building: 621 Baker St			Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
04	Material: Duct wrap	F	A	Rm 3 west duct	10, 2, 3 vents/ducts	24 5	5
	Description		B	Rm 2 east duct			
	Material: grey		C	Rm 9 ceiling duct			
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						

3 samples with the exception of patches less than 6 LF or 6 SF, then only 1 sample

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199854		Building:	621 Baker St		Date:	12/20/17	
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
05	Material: Drywall	NF	A	Rm 3 east wall	3 east wall	120 SF	29	
	Description: white		B	Rm 3 east wall				
06	Material: Mud	NF	A	Same as 05A	3 east wall	40 SF	29	
	Description: white		B	Same as 05B				
07	Material: Tape	NF	A	Same as 05A	3 east wall	40 SF	29	
	Description: white		B	Same as 05B				
08	Material: Tape	NF	A	Rm 6 west wall	6 west wall	50 SF	22	
	Description: white		B	Rm 6 west wall				
09	Material: mud	NF	A	Same as 08A	6 west wall	50 SF	22	
	Description: white		B	Same as 08B				
10	Material: 12x12 tile	NF	A	Rm 5 north floor	5	48 SF	30	
	Description: green		B	Rm 5 south floor				
11	Material: 12x12 floor tile	NF	A	Same as 10A	5	48 SF	31	
	Description: white		B	Same as 10B				
12	Material: Mastic	NF	A	Same as 10A	5	48 SF	31	
	Description: black		B	Same as 10B				
13	Material: Linoleum	NF	A	East Floor Rm 6	6	273 SF	32	
	Description: white		B	South Floor Rm 6				
14	Material: Blown In Ins	NF	A	Attic floor center	Attic	900 SF	30	
	Description: brown		B	Attic floor center				

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199854		Building:	621 Baker St		Date:	12/20/17	
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
15	Material: Linoleum Description: white linoleum	NF	A	Rm 16 east floor 643108	16	210 SF	34	
16	Material: Linoleum Description: Cream	NF	B	Rm 16 south floor 109	14	54 SF	35	
17	Material: Concrete wall Description: grey	NF	A	Rm 14 east floor 110	10, 12	770 SF	17, 20	
18	Material: Mortar Description: grey	NF	B	Rm 14 west floor 111	10, 17	700 SF	17, 20	
19	Material: Concrete floor Description: grey	NF	A	Rm 10 south wall 112	10, 17	756 SF	15	
20	Material: Brick Description: red/peach	NF	B	Rm 17 west wall 113	Chimney Rm 10 north wall Rm 17 south wall	428 SF	15	
21	Material: Mortar Description: grey	NF	A	Same as 17A 114	Chimney Rm 10 north wall Rm 17 south wall	600 SF	41	
22	Material: House wrap Description: tan	NF	B	Same as 20B 115	Rm 7 south wall Rm 10 north wall Rm 17 south wall	600 SF	41	
23	Material: Transite Description: white	NF	A	Rm 10 center floor 116	ext house	600 SF	41	
24	Material: Fiberboard Description: black	NF	B	Rm 17 center floor 117	ext house	600 SF	41	
			A	Rm 17 chimney 118				
			B	Rm 10 north wall 119				
			A	Same as 20A 120				
			B	Same as 20B 121				
			A	Rm 1 north wall 122				
			B	Rm 7 south wall 123				
			A	West side ext house 124				
			B	North side ext house 125				
			A	Same as 23A 126				
			B	Same as 23B 127				

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199854	Building: 621 Baker St					12/20/17			
25	Material: foam paper		Nf	A	Sewas 23A	643128	ext house	600 SF	41
	Description: tan			B	Sewas 23B	129			
26	Material: Window Glaze		Nf	A	west window ext	130	ext window	21 units	37
	Description: white			B	west window ext	131			
27	Material: Shingles		Nf	A	north roof ext house	132	ext house	6200 SF	39
	Description: black/white			B	south roof ext house	133			
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

A table showing hazardous materials, above the household quantity limitations, found at the house is included as **Table 1: Hazardous Materials**. This table lists non-asbestos materials that may be hazardous and require special handling and disposal requirements. Items that might be in this category include: mercury switches, fluorescent lighting tubes and ballasts, halogen lights, Freon in refrigeration units, pesticides, herbicides, paints, solvents, etc.

Under the Resource Conservation and Recovery Act (RCRA) that addresses hazardous wastes, there is a residential household quantity exclusion. Materials are listed in Table I if they are present in quantities larger than what would typically be expected to be used and disposed in a normal household, and/or may require special handling and disposal requirements, such as: paints, solvents, adhesives, oils, tires, large circuit boards (such as televisions, computers, and security systems), prescription drugs, and syringes. On the other hand, if there were only household sized containers of maintenance, cleaning, non-prescription health and personal hygiene products, radios, and controllers present, as would be found in most homes, these materials would not be listed.

Fluorescent lighting systems have ballasts that have the potential to contain polychlorinated biphenyls (PCBs). Although PCBs are no longer commercially produced in the United States, they may be present in U.S. products that were produced prior to 1979, and may still be commercially available from other countries. Fluorescent bulbs, thermostats, and thermometers may contain mercury and can be treated as Universal Waste, which are streamlined standards for managing common types of hazardous waste.

If obtained, photographs of hazardous materials for the above referenced property are included in **Attachment: Site Photographs**.

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

The property was inspected for the presence of asbestos-containing materials (ACMs) in order to meet the requirements of 40 CFR, Part 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP).

Asbestos Inspection

The property was inspected for the presence of suspected ACMs. Typical building materials that may contain asbestos included drywall, plaster, stucco, floor tiles, roofing felt and shingles, ceiling tiles, insulation, pipe insulation, and duct insulation.

Sample Collection

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

Pre-Demolition Environmental Inspection Procedures

At least two samples of each suspected asbestos containing material identified during the inspection was collected. For surfacing materials (sprayed and/or troweled on) a minimum of three samples were collected for areas that contained less than 1000 square feet of the material; 5 samples were collected for materials 1000 to 5000 square feet, and 7 samples were taken for areas greater than 5000 square feet. A Michigan Accredited Asbestos Inspector collected representative samples of each suspected ACM. Each sample was placed into a sealed plastic bag and labeled. A description of the material and location of the sample collected was recorded in the field notes. The total quantity of each suspected ACM was estimated and recorded in the field notes.

A listing of suspect ACMs at this property that were sampled and sent to the laboratory for analysis is included in **Table 2**. A copy of a floor plan showing sample locations is included in **Attachment: Site Drawing**.

Laboratory Analysis / Results

Each sample of suspect ACM collected at this property was analyzed for asbestos content using polarized light microscopy (PLM) by a NVLAP and NIST accredited laboratory in accordance with 40 CFR Ch. I (1-1-87 Edition) Part 763, Subpart F, Appendix A, pp. 293-299. Asbestos containing materials are defined as materials that contain greater than one percent (>1%) asbestos.

Each sample collected for analysis was delivered to either IATL (International Asbestos Testing Laboratories), 9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054, ETL (Environmental Testing Laboratories), 38900 W. Huron River Drive, Suite 200, Romulus, MI 48174, and/or ACM Engineering & Environmental Services, 26598 US Highway 20 West, South Bend, IN 46628. Laboratory results are included in **Attachment: Laboratory Analytical Results**.

SIGNATURE

This report was prepared based on the site conditions that existed at the time of the inspection, sample collection, and the laboratory analytical results.



Prepared by: _____

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051