

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

**Ingham County Land Bank**  
 3024 Turner Street  
 Lansing, MI 48906

Parcel:	33-01-01-28-403-011
House No:	2609 Maplewood Ave, Lansing, MI 48910
Date Inspected:	11/28/2017
Inspected By:	Jake Gleason
Inspectors State Card #	A-49991

Building Information			
No. Stories	1	Garage	Attached
Square Footage	800 SF	Garage Square Footage	300 SF
Basement Square Footage	No Basement	Garage Siding	Aluminum, Wood
Siding	Aluminum, Wood	Garage Color	White
Color	White	Garage Shingles	Rubber Membrane
Roof Shingles	Asphalt Shingles	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-28-403-011  
House No. 2609 Maplewood Ave, Lansing, MI 48910  
Date Inspected: 11/28/2017

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Hot Water Heater	1	Room 8
AC, Refrigerator	3	Room 2, 4, 6

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Bike Tire	1	Room 9

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-28-403-011
House No.	2609 Maplewood Ave, Lansing, MI 48910
Date Inspected:	11/28/2017

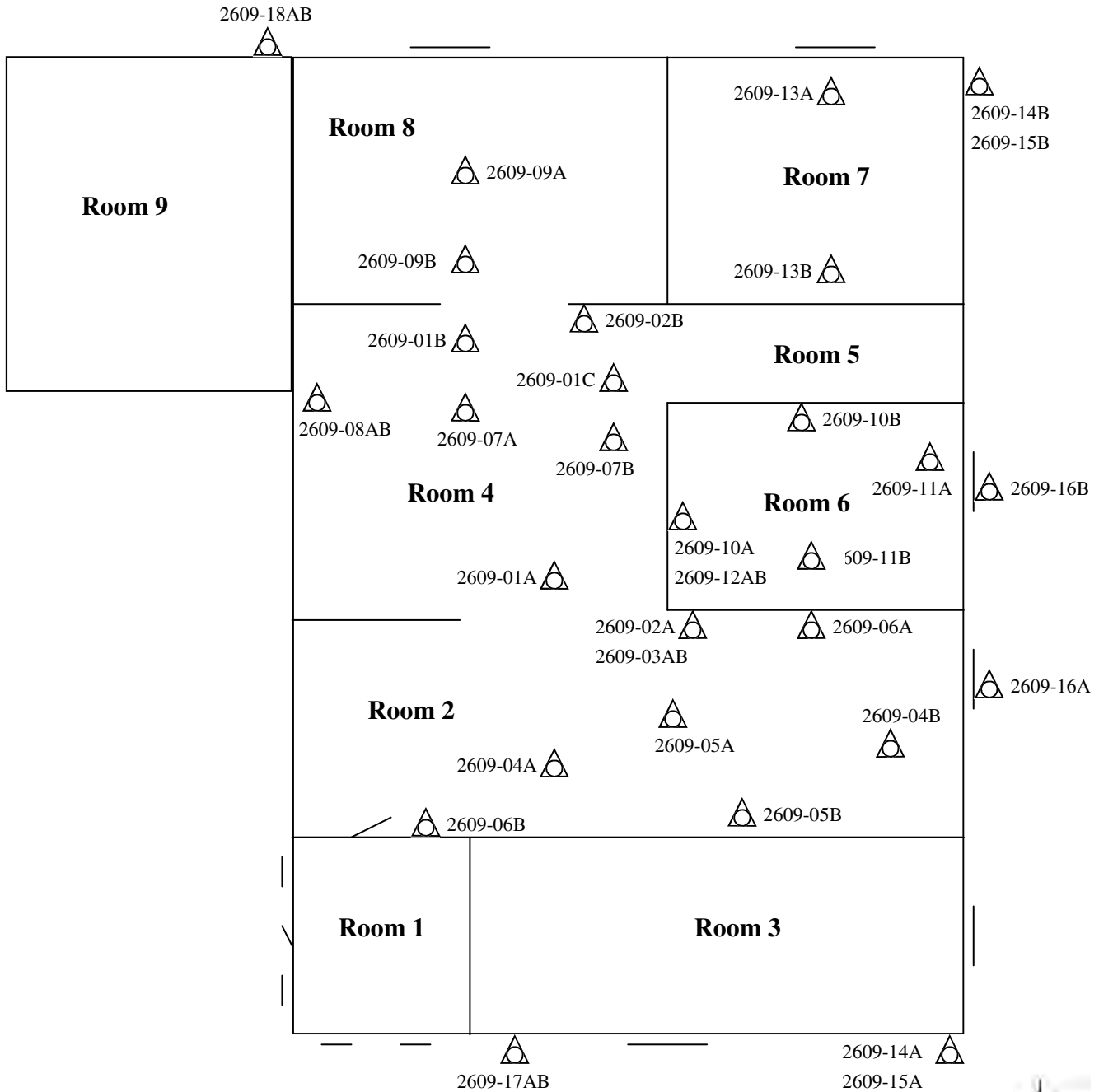
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Texture ceiling, white	Room 4	100 SF	No
2	F	Drywall, white	Throughout	2000 SF	No
3	F	Tape and mud, white	Throughout	2000 SF	No
4	F	12x12 ceiling tile, yellow	Room 2, 8	250 SF	No
5	F	Blown-in-insulation, grey	Throughout	2000 SF	No
6	NF	12x12 Peel and stick, white and blue diamond	Room 2	190 SF	No
7	NF	12x12 Peel and stick, square wood grain	Room 4	100 SF	No
<b>8</b>	<b>F</b>	<b>Sink undercoat, black</b>	<b>Room 4</b>	<b>4 SF</b>	<b>YES</b>
9	NF	12x12 Peel and stick, brown	Room 7, 8	125 SF	No
10	NF	Linoleum, red	Room 6	100 SF	No
11	F	Ceiling tile, wood grain	Room 6	150 SF	No
12	NF	Stacked cement, grey	Room 6	5 SF	No
13	F	12x12 Ceiling tile, white	Room 7	50 SF	No
14	F	House wrap, brown	Exterior	1700 SF	No
15	F	Vapor barrier, brown	Exterior	1700 SF	No
16	F	Window glaze, white	Exterior (south east window)	2 windows	No
17	F	Asphalt shingle, black	Exterior (house)	2000 SF	No
<b>18</b>	<b>F</b>	<b>Rubber membrane, black</b>	<b>Exterior (garage)</b>	<b>300 SF</b>	<b>YES</b>

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.

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-28-403-011  
House No. 2609 Maplewood Ave, Lansing, MI 48910  
Date Inspected: 11/28/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-28-403-011
House No.	2609 Maplewood Ave, Lansing, MI 48910
Date Inspected:	11/28/2017



Garage



## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-28-403-011  
House No. 2609 Maplewood Ave, Lansing, MI 48910  
Date Inspected: 11/28/2017



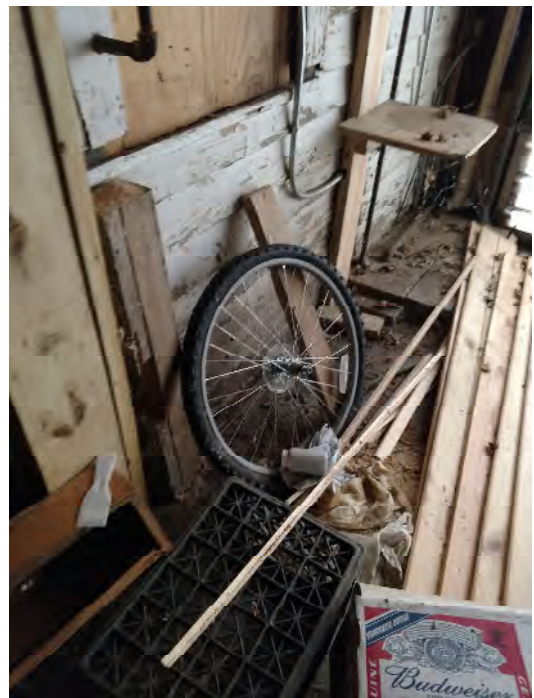
Hot Water Heater



AC



Refrigerator



Tire

## Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-28-403-011  
House No. 2609 Maplewood Ave, Lansing, MI 48910  
Date Inspected: 11/28/2017



Sink Undercoat



Rubber Membrane

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 :  
2609 Maplewood Ave

**Attention :**

Client Project : 33-01-01-28-403-011

ETC Job : 199868

Report Date : 12/6/2017

Login #	Sample ID	Work Requested	Completed
632748	1A	Asbestos Analysis	12/06/2017
632749	1B	Asbestos Analysis	12/06/2017
632750	1C	Asbestos Analysis	12/06/2017
632751	2A	Asbestos Analysis	12/06/2017
632752	2B	Asbestos Analysis	12/06/2017
632753	3A	Asbestos Analysis	12/06/2017
632754	3B	Asbestos Analysis	12/06/2017
632755	4A	Asbestos Analysis	12/06/2017
632756	4B	Asbestos Analysis	12/06/2017
632757	5A	Asbestos Analysis	12/06/2017
632758	5B	Asbestos Analysis	12/06/2017
632759	6A	Asbestos Analysis	12/06/2017
632760	6B	Asbestos Analysis	12/06/2017
632761	7A	Asbestos Analysis	12/06/2017
632762	7B	Asbestos Analysis	12/06/2017
632763	8A	Asbestos Analysis	12/06/2017
632764	8B	Asbestos Analysis	12/06/2017
632765	9A	Asbestos Analysis	12/06/2017
632766	9B	Asbestos Analysis	12/06/2017
632767	10A	Asbestos Analysis	12/06/2017

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Login #	Sample ID	Work Requested	Completed
632768	10B	Asbestos Analysis	12/06/2017
632769	11A	Asbestos Analysis	12/06/2017
632770	11B	Asbestos Analysis	12/06/2017
632771	12A	Asbestos Analysis	12/06/2017
632772	12B	Asbestos Analysis	12/06/2017
632773	13A	Asbestos Analysis	12/06/2017
632774	13B	Asbestos Analysis	12/06/2017
632775	14A	Asbestos Analysis	12/06/2017
632776	14B	Asbestos Analysis	12/06/2017
632777	15A	Asbestos Analysis	12/06/2017
632778	15B	Asbestos Analysis	12/06/2017
632779	16A	Asbestos Analysis	12/06/2017
632780	16B	Asbestos Analysis	12/06/2017
632781	17A	Asbestos Analysis	12/06/2017
632782	17B	Asbestos Analysis	12/06/2017
632783	18A	Asbestos Analysis	12/06/2017
632784	18B	Asbestos Analysis	12/06/2017

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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 :**  
 2609 Maplewood Ave

**ETC Job :** 199868  
**Client Project :** 33-01-01-28-403-011  
**Date Collected :** 11/28/2017  
**Date Received :** 12/01/2017  
**Date Analyzed :** 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
632748 1A W Side Ceiling Rm 4 Analyst: Renee Renauer	Texture Ceiling	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
632749 1B E Side Ceiling Rm 4 Analyst: Renee Renauer	Texture Ceiling	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
632750 1C S Side Ceiling Rm 4 Analyst: Renee Renauer	Texture Ceiling	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
632751 2A E Wall Rm 2 Analyst: Renee Renauer	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
632752 2B E Wall Rm 4 Analyst: Renee Renauer	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
632753 3A E Wall Rm 2 Layer-1 Analyst: Renee Renauer	Tape	White Fibrous Homogenous	100% Other fibrous		None Detected
632753 3A E Wall Rm 2 Layer-2 Analyst: Renee Renauer	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% 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

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 Romulus, MI 48174  
  
**Location :**  
 2609 Maplewood Ave

**ETC Job :** 199868  
**Client Project :** 33-01-01-28-403-011  
**Date Collected :** 11/28/2017  
**Date Received :** 12/07/2017  
**Date Analyzed :** 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
632754 3B E Wall Rm 2 Layer-1 Analyst: Renee Renauer	Tape	White Fibrous Homogenous	100% Other fibrous		None Detected
632754 3B E Wall Rm 2 Layer-2 Analyst: Renee Renauer	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
632755 4A W Wall Entry Rm 2 Analyst: Renee Renauer	Ceiling Tile	Yellow Fibrous Homogenous	100% Cellulose		None Detected
632756 4B S Wall Rm 2 Analyst: Renee Renauer	Ceiling Tile	Yellow Fibrous Homogenous	100% Cellulose		None Detected
632757 5A Center Rm 2 Analyst: Renee Renauer	Blown Insulation	Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected
632758 5B W Wall Rm 2 Analyst: Renee Renauer	Blown Insulation	Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected
632759 6A E Wall Entry Rm 2 Analyst: Renee Renauer	12x12 Peel & Stick	Blue/White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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 38900 Huron River Drive  
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**Date Received :** 12/07/2017  
**Date Analyzed :** 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
632760 6B W Wall Entry Rm 2 Analyst: Renee Renauer	12x12 Peel & Stick	Blue/White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
632761 7A E Entry Rm 4 Analyst: Renee Renauer	12x12 Peel & Stick	Wood Grain Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
632762 7B S Entry Rm 4 Analyst: Renee Renauer	12x12 Peel & Stick	Wood Grain Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
632763 8A N Wall Rm 4 Analyst: Renee Renauer	Sink Undercoat	Black Non-Fibrous Homogenous	2% Cellulose	96% Other	2% Chrysotile
632764 8B N Wall Rm 4 Analyst: Renee Renauer		Not Analyzed			
632765 9A Center Rm 8 Analyst: Renee Renauer	12x12 Peel & Stick	Brown Non-Fibrous Homogenous		100% Other	None Detected
632766 9B W Entry Rm 8 Analyst: Renee Renauer	12x12 Peel & Stick	Brown Non-Fibrous Homogenous		100% Other	None Detected



## Polarized Light Microscopy Asbestos Analysis Report

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**Location :**  
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**ETC Job :** 199868  
**Client Project :** 33-01-01-28-403-011  
**Date Collected :** 11/28/2017  
**Date Received :** 12/07/2017  
**Date Analyzed :** 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
632767 10A N Wall Rm 6 Analyst: Renee Renauer	Linoleum	Red Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
632768 10B E Wall Rm 6 Analyst: Renee Renauer	Linoleum	Red Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
632769 11A S Wall Rm 6 Analyst: Renee Renauer	Ceiling Tile	Tan Fibrous Homogenous	100% Cellulose		None Detected
632770 11B Middle Rm 6 Analyst: Renee Renauer	Ceiling Tile	Tan Fibrous Homogenous		100% Other	None Detected
632771 12A N Wall Rm 6 Analyst: Renee Renauer	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
632772 12B N Wall Rm 6 Analyst: Renee Renauer	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
632773 13A E Entry Rm 7 Analyst: Renee Renauer	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected

### Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
2609 Maplewood Ave

**ETC Job :** 199868  
**Client Project :** 33-01-01-28-403-011  
**Date Collected :** 11/28/2017  
**Date Received :** 12/01/2017  
**Date Analyzed :** 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
632774 13B W Wall Rm 7 Analyst: Renee Renauer	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
632775 14A SW Corner Analyst: Renee Renauer	House Wrap	Brown Fibrous Homogenous	100% Cellulose		None Detected
632776 14B SE Corner Analyst: Renee Renauer	House Wrap	Brown Fibrous Homogenous	100% Cellulose		None Detected
632777 15A SW Corner Analyst: Renee Renauer	Vapor Barrier	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
632778 15B SE Corner Analyst: Renee Renauer	Vapor Barrier	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
632779 16A Middle Window S Side Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
632780 16B East Window S Side Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

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 Romulus, MI 48174  
  
**Location :**  
 2609 Maplewood Ave

**ETC Job :** 199868  
**Client Project :** 33-01-01-28-403-011  
**Date Collected :** 11/28/2017  
**Date Received :** 12/01/2017  
**Date Analyzed :** 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
632781 17A West Side Analyst: Renee Renauer	Asphalt Shingle	Black Non-Fibrous Homogenous	4% Fiberglass	96% Other	None Detected
632782 17B West Side Analyst: Renee Renauer	Asphalt Shingle	Black Non-Fibrous Homogenous	4% Fiberglass	96% Other	None Detected
632783 18A East Side Analyst: Renee Renauer	Rubber Membrane	Black Non-Fibrous Homogenous	2% Fiberglass	96% Other	2% Chrysotile
632784 18B East Side Analyst: Renee Renauer		Not Analyzed			



Lab Supervisor/Other Signatory



Analyst: Renee Renauer

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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**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 199868

<b>Client:</b> ETC	<b>Contact:</b> <u>Liu Hagerman</u>	<b>Project Location/Name:</b> <u>2609 Maplewood Lansing MI</u>
<b>Address:</b> <u>721 N. Capitol Ave. Suite 3, Lansing, MI 48906</u>	<b>Phone:</b> (734) 955-6600	
	<b>Fax:</b> (734) 955-6604	
<b>E-mail:</b> <u>results@2etil.com</u>		<b>Client Project #:</b> <u>199868</u>
<b>Please Provide Results:</b> <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		<b>Date Sampled:</b> <u>11/28/17</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 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
<u>632748</u>	<u>01 ABC</u>	<u>Please see ATTACHED</u>	<u>PAGED</u>
	<u>02 AD</u>		
	<u>1</u>		
<u>632784</u>	<u>18 AD</u>		

	Name/Organization	Date	Time
Relinquished (Name/Organization):	<u>John Gleason</u>	<u>11/20/17</u>	<u>5:00</u> am/pm
Received (Name/ETL):	<u>[Signature]</u>	<u>12/1/17</u>	<u>8:00</u> am/pm
Stereoscopic Analysis (Name/ETL):	<u>Renee R</u>	<u>12-4-17</u>	am/pm
Sample Log In (Name/ETL):	<u>[Signature]</u>	<u>12/1/17</u>	am/pm
Analysis (Name/ETL):	<u>Renee R</u>	<u>12-4-17</u>	am/pm
QA/QC Review (Name/ETL):	<u>[Signature]</u>	<u>12/6/17</u>	am/pm

**Special Instructions:** \_\_\_\_\_ **Remarks:** \_\_\_\_\_

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #:	Building: 2609 Maplewood, Lansing MI			Date:	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: <del>to</del> texture ceiling  White	F	A	w side ceiling rm 4	632748 49 450	100 SF	
			B	e side ceiling rm 4			
			C	s side ceiling rm 4			
	Material:  						
	Material:  						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

2. Col

# Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	199868		Building: 2609 Maplewood Canyon RE		Date: 11/20/17		
	Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity
2	Material: Drywall Description: white	F	A	E wall rm 2 632761	throughout	2000 SF	
3	Material: tape & mud Description: white	F	A	E wall rm 4 52	throughout	2000 SF	
4	Material: ceiling tube bulk Description: yellow	F	A	E wall rm 2 53			
5	Material: Blown in insulation Description: grey	F	A	W wall entry rm 2 57	2, 18	250 SF	
6	Material: 12x12 P&S Description: white & Blue diamond	NF	A	S wall rm 2 56	throughout	2000 SF	
7	Material: 12x12 P&S Description: Sparx woodgran	NF	A	center rm 2 57	2	190 SF	
8	Material: sink undercount Description: Black	F	A	W wall rm 2 58	4	100 SF	
9	Material: 12x12 P&S Description: Brown	NF	A	E entry rm 4 61	4	4 SF	
10	Material: linoleum Description: red	NF	A	S entry rm 4 62	7, 8, 10	125 SF	
11	Material: ceiling tile Description: wood grain	F	A	N wall rm 4 63	6	100 SF	
			A	N wall rm 4 64	6	150 SF	
			A	center rm 8 65			
			B	W entry rm 8 66			
			A	N wall rm 6 67			
			B	E wall rm 6 68			
			A	S wall rm 6 69			
			B	middle rm 6 632770			

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/201

Job #:	Material no.		Material Description	Building:		Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
	199868	2609 maple road Lansing MI		Friable (F) / Non-Friable (NF)							
12	Material:	Stacks cement	NF	A	N wall rm 6	632771	le		5 SF		
	Description:	grey									
13	Material:	12x12 ceiling tile	F	A	e entry rm 7	73	7		50 SF		
	Description:	white									
14	Material:	House wrap	f	A	sw corner	74					
	Description:	Brown									
15	Material:	vapor barrier	f	A	sw corner	76	ext		1700 SF		
	Description:	brown									
16	Material:	Window glaze	f	A	se corner	78	ext		1700 SF		
	Description:	white									
17	Material:	asphalt shingle	f	A	middle window S side	79	ext		2 windows		
	Description:	Black									
18	Material:	rubber membrane	f	A	east side	81	ext		2000 SF		
	Description:	Black									
	Material:			A		82					
	Description:										
	Material:			A		83					
	Description:										
	Material:			A		632784					
	Description:										
	Material:			A							
	Description:										
	Material:			A							
	Description:										
	Material:			A							
	Description:										

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**.

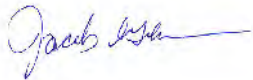
### **Laboratory Analysis / Results**

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: \_\_\_\_\_

Jake Gleason, 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:	33-01-01-28-430-001
House No:	602 S Park Blvd, Lansing, MI 48910
Date Inspected:	12/3/2017 & 2/27/2018
Inspected By:	Heather Davis and Jake Gleason
Inspectors State Card #	A-48908 & A-49991

Building Information			
No. Stories	1	Garage	Detached
Square Footage	1300 SF	Garage Square Footage	180 SF
Basement Square Footage	No Basement	Garage Siding	Aluminum
Siding	Aluminum	Garage Color	White
Color	White	Garage Shingles	Asphalt Shingle
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-28-430-001  
House No. 602 S Park Blvd, Lansing, MI 48910  
Date Inspected: 12/3/2017 & 2/27/2018

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Refrigerator	1	Room 6
TV Screens/Electronics	9	Room 1, 3, 4, Garage
Misc. Items (solvents, cleaners)	7	Room 1, 6, 7
Paint Cans	2	Room 7
Smoke Detectors	2	Room 3, 7
Propane	1	Room 6
Portable Gas Heater	1	Room 1

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
-----------------	-----------------------------	-----------------

None observed above household quantities		
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Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-28-430-001
House No.	602 S Park Blvd, Lansing, MI 48910
Date Inspected:	12/3/2017 & 2/27/2018

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

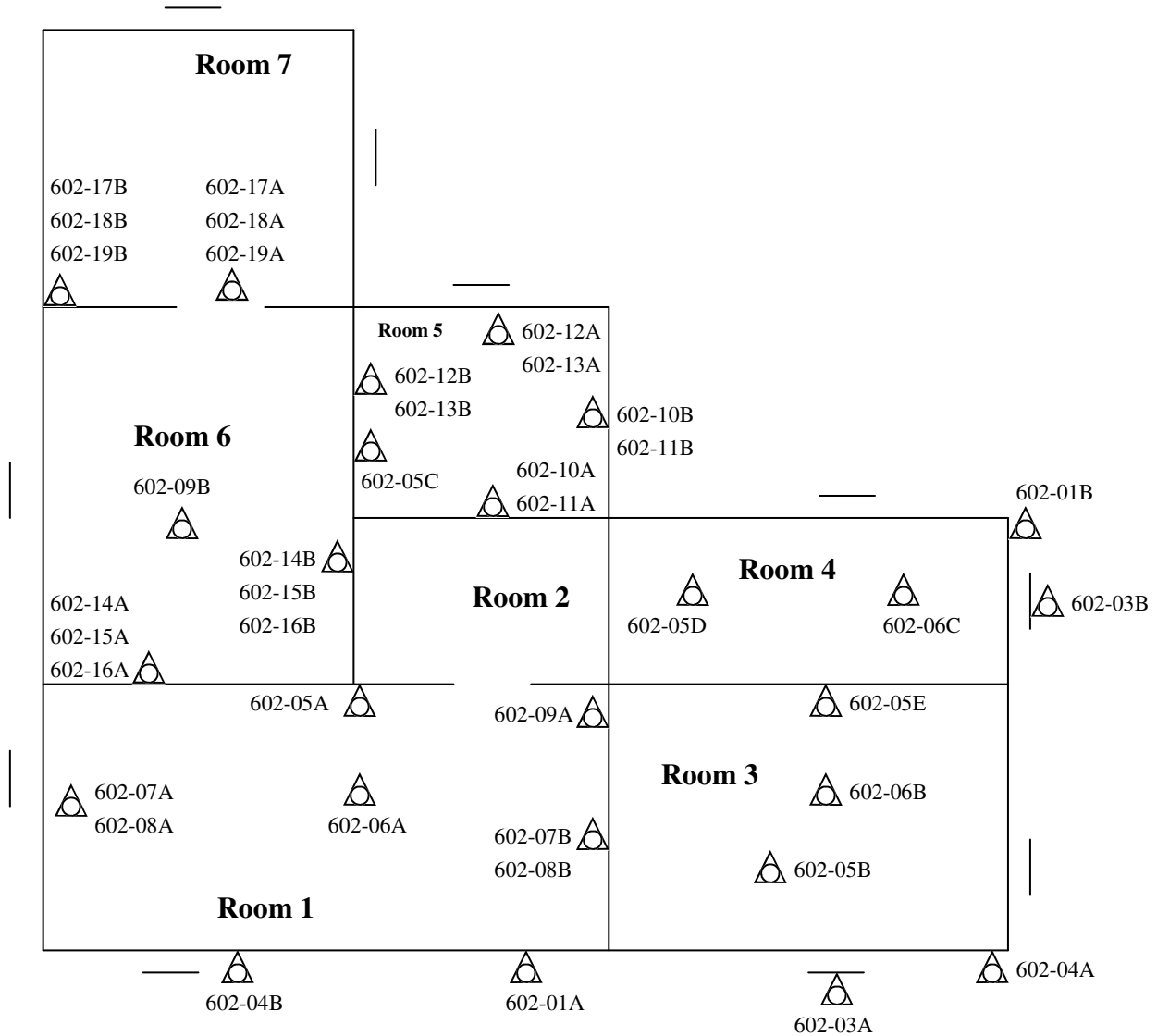
Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	House wrap, black	Exterior (house)	1300 SF	No
2	NF	Garage wrap, tan	Exterior (garage)	450 SF	No
3	F	Window glaze, white	Exterior (windows)	15 windows	No
4	NF	Asphalt shingle, grey	Exterior (house)	975 SF	No
<b>5</b>	<b>NF</b>	<b>Plaster, grey w/ skim coat</b>	<b>Rooms 1-6</b>	<b>2900 SF</b>	<b>YES</b>
6	NF	Texture, white	Room 1, 3, 4	450 SF	No
7	F	Mud, white	Throughout	2900 SF	No
8	NF	Tape, white	Throughout	2900 SF	No
9	NF	Drywall, white	Throughout	2900 SF	No
10	NF	Linoleum, white	Room 5	75 SF	No
11	NF	Mastic, orange	Room 5	75 SF	No
12	NF	Paneling mastic, yellow	Room 5	300 SF	No
13	NF	Tile mastic, yellow	Room 5	300 SF	No
14	NF	Linoleum, orange	Room 6	200 SF	No
15	NF	12x12 Floor tile, blue	Room 6	200 SF	No
16	NF	Mastic, yellow	Room 6	200 SF	No
17	NF	Linoleum, pink	Room 7	200 SF	No
18	NF	12x12 Peel and stick, beige	Room 7	200 SF	No
19	NF	Floor underlayment, black	Room 7	200 SF	No
<b>20</b>	<b>NF</b>	<b>Vermiculite, tan</b>	<b>Attic</b>	<b>1500 SF</b>	<b>YES*</b>

YES\* - assumed positive

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

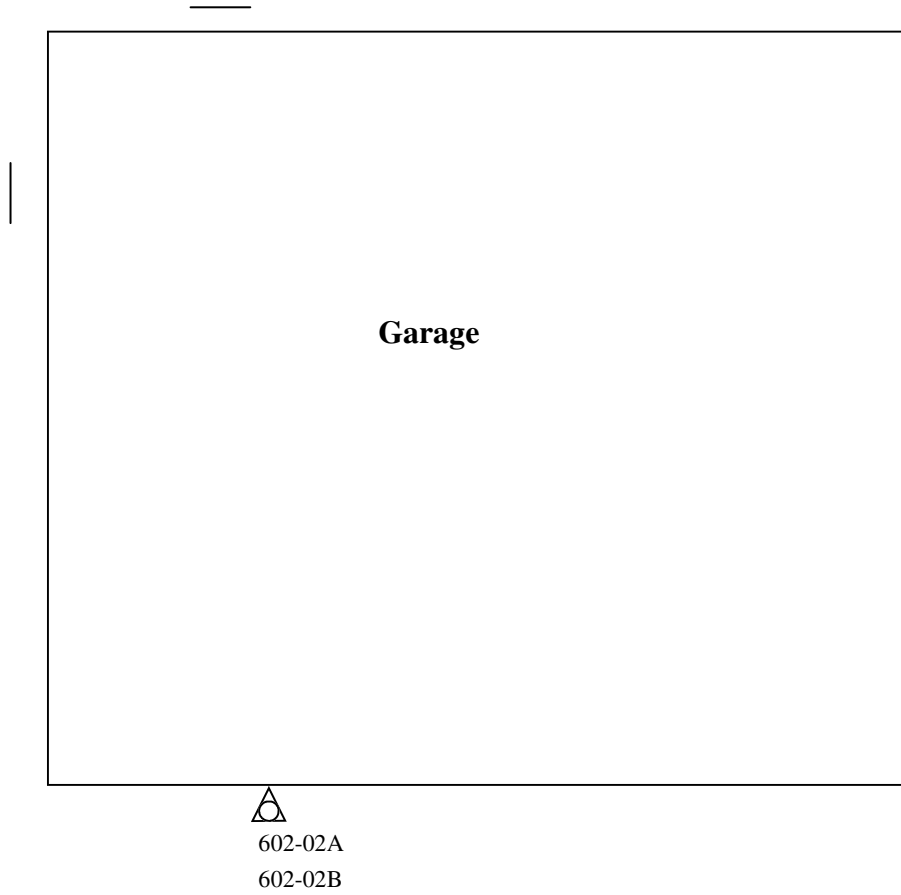


 Sample Location

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.

**Garage**

33-01-01-28-430-001  
602 S Park Blvd, Lansing, MI 48910  
12/3/2017 & 2/27/2018



 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: 33-01-01-28-430-001  
House No. 602 S Park Blvd, Lansing, MI 48910  
Date Inspected: 12/3/2017 & 2/27/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-28-430-001
House No.	602 S Park Blvd, Lansing, MI 48910
Date Inspected:	12/3/2017 & 2/27/2018



Garage

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-28-430-001  
House No. 602 S Park Blvd, Lansing, MI 48910  
Date Inspected: 12/3/2017 & 2/27/2018



Refrigerators



TV Screens/Electronics



Misc. Items (solvents, cleaners)



Paint Cans

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-28-430-001  
House No. 602 S Park Blvd, Lansing, MI 48910  
Date Inspected: 12/3/2017 & 2/27/2018



Smoke Detectors



Propane



Portable Gas Heater

## Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-28-430-001  
House No. 602 S Park Blvd, Lansing, MI 48910  
Date Inspected: 12/3/2017 & 2/27/2018



Plaster



Vermiculite, tan

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 :  
602 S Park Blvd, Lansing, MI

**Attention :**

Client Project : 33-01-01-28-430-001

ETC Job : 199869

Report Date : 3/2/2018

Login #	Sample ID	Work Requested	Completed
634715	1A	Asbestos Analysis	12/11/2017
634716	1B	Asbestos Analysis	12/11/2017
634717	2A	Asbestos Analysis	12/11/2017
634718	2B	Asbestos Analysis	12/11/2017
634719	3A	Asbestos Analysis	12/11/2017
634720	3B	Asbestos Analysis	12/11/2017
634721	4A	Asbestos Analysis	12/11/2017
634722	4B	Asbestos Analysis	12/11/2017
693794	05A	Asbestos Analysis	12/11/2017
693795	05B	Asbestos Analysis	03/01/2018
693796	05C	Asbestos Analysis	03/01/2018
693797	05D	Asbestos Analysis	03/01/2018
693798	05E	Asbestos Analysis	03/01/2018
693799	06A	Asbestos Analysis	03/01/2018
693800	06B	Asbestos Analysis	03/01/2018
693801	06C	Asbestos Analysis	03/01/2018
693802	07A	Asbestos Analysis	03/01/2018
693803	07B	Asbestos Analysis	03/01/2018
693804	08A	Asbestos Analysis	03/01/2018
693805	08B	Asbestos Analysis	03/01/2018

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---

<b>Login #</b>	<b>Sample ID</b>	<b>Work Requested</b>	<b>Completed</b>
693806	09A	Asbestos Analysis	03/01/2018
693807	09B	Asbestos Analysis	03/01/2018
693808	10A	Asbestos Analysis	03/01/2018
693809	10B	Asbestos Analysis	03/01/2018
693810	11A	Asbestos Analysis	03/01/2018
693811	11B	Asbestos Analysis	03/01/2018
693812	12A	Asbestos Analysis	03/01/2018
693813	12B	Asbestos Analysis	03/01/2018
693814	13A	Asbestos Analysis	03/01/2018
693815	13B	Asbestos Analysis	03/01/2018
693816	14A	Asbestos Analysis	03/01/2018
693817	14B	Asbestos Analysis	03/01/2018
693818	15A	Asbestos Analysis	03/01/2018
693819	15B	Asbestos Analysis	03/01/2018
693820	16A	Asbestos Analysis	03/01/2018
693821	16B	Asbestos Analysis	03/01/2018
693822	17A	Asbestos Analysis	03/01/2018
693823	17B	Asbestos Analysis	03/01/2018
693824	18A	Asbestos Analysis	03/01/2018
693825	18B	Asbestos Analysis	03/01/2018
693826	19A	Asbestos Analysis	03/01/2018
693827	19B	Asbestos Analysis	03/01/2018
693828	20A	Asbestos Analysis	03/01/2018
693829	20B	Asbestos Analysis	03/01/2018

---

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 :**  
 602 S Park Blvd, Lansing, MI

**ETC Job :** 199869  
**Client Project :** 33-01-01-28-430-001  
**Date Collected :** 12/03/2017  
**Date Received :** 12/05/2017  
**Date Analyzed :** 12/11/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634715 1A W of Front Entry Analyst: Renee Renauer	House Wrap	Black Fibrous Homogenous	100% Cellulose		None Detected
634716 1B SW Side Analyst: Renee Renauer	House Wrap	Black Fibrous Homogenous	100% Cellulose		None Detected
634717 2A N Side West Entry Analyst: Renee Renauer	Garage Wrap	Tan Fibrous Homogenous	100% Cellulose		None Detected
634718 2B N Side West Entry Analyst: Renee Renauer	Garage Wrap	Tan Fibrous Homogenous	100% Cellulose		None Detected
634719 3A W Front Window Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous		99.5% Other	PC 0.5% Chrysotile
634720 3B W Side S Window Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous		100% Other	PC None Detected
634721 4A N Side W Entry Analyst: Renee Renauer	Asphalt Shingle	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 :**  
 602 S Park Blvd, Lansing, MI

**ETC Job :** 199869  
**Client Project :** 33-01-01-28-430-001  
**Date Collected :** 12/03/2017  
**Date Received :** 12/05/2017  
**Date Analyzed :** 12/11/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634722 4B N Side E Entry Analyst: Renee Renauer	Asphalt Shingle	Grey Non-Fibrous Homogenous	4% Fiberglass	96% Other	None Detected
693794 05A RM1 South Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2.5% Cellulose	96% Other	PC 1.5% Chrysotile
693794 05A RM1 South Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693795 05B RM3 Ceiling Center Layer-1 Analyst: Scott Larabell		Not Analyzed			
693795 05B RM3 Ceiling Center Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
693796 05C RM5 East Wall Layer-1 Analyst: Scott Larabell		Not Analyzed			
693796 05C RM5 East Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
  
**Location :**  
 602 S Park Blvd, Lansing, MI

**ETC Job :** 199869  
**Client Project :** 33-01-01-28-430-001  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/01/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693797 05D RM4 Center Ceiling Layer-1 Analyst: Scott Larabell		Not Analyzed			
693797 05D RM4 Center Ceiling Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693798 05E RM3 South Wall Layer-1 Analyst: Scott Larabell		Not Analyzed			
693798 05E RM3 South Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693799 06A RM1 Center Ceiling Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693800 06B RM3 Center Ceiling Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
693801 06C RM4 Center Ceiling Analyst: Scott Larabell	Texture	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 :**  
 602 S Park Blvd, Lansing, MI

**ETC Job :** 199869  
**Client Project :** 33-01-01-28-430-001  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/01/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693802 07A RM1 East Ceiling Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693803 07B RM1 West Ceiling Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693804 08A RM1 East Ceiling Analyst: Scott Larabell	Tape	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
693805 08B RM1 West Ceiling Analyst: Scott Larabell	Tape	White Fibrous Homogenous	85% Cellulose	15% Other	None Detected
693806 09A RM1 West Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
693807 09B RM6 Center Ceiling Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
693808 10A RM5 North Floor Analyst: Scott Larabell	Linoleum	White 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 :**  
 602 S Park Blvd, Lansing, MI

**ETC Job :** 199869  
**Client Project :** 33-01-01-28-430-001  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/01/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693809 10B RM5 West Floor Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
693810 11A RM5 North Floor Analyst: Scott Larabell	Mastic	Orange Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693811 11B RM5 West Floor Analyst: Scott Larabell	Mastic	Orange Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693812 12A RM5 South Wall Analyst: Scott Larabell	Panel Mastic	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
693813 12B RM5 East Wall Analyst: Scott Larabell	Panel Mastic	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
693814 13A RM5 South Wall Layer-1 Analyst: Scott Larabell	Tile Mastic	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693814 13A RM5 South Wall Layer-2 Analyst: Scott Larabell	Skim	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 :**  
 602 S Park Blvd, Lansing, MI

**ETC Job :** 199869  
**Client Project :** 33-01-01-28-430-001  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/01/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693815 13B RM5 East Wall Layer-1 Analyst: Scott Larabell	Tile Mastic	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693815 13B RM5 East Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693816 14A RM6 North Wall Analyst: Scott Larabell	Linoleum	Orange Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
693817 14B RM6 West Wall Analyst: Scott Larabell	Linoleum	Orange Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
693818 15A RM6 North Wall Analyst: Scott Larabell	12x12 Floor Tile	Blue Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693819 15B RM6 West Wall Analyst: Scott Larabell	12x12 Floor Tile	Blue Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693820 16A RM6 North Wall Analyst: Scott Larabell	Mastic	Yellow 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 :**  
 602 S Park Blvd, Lansing, MI

**ETC Job :** 199869  
**Client Project :** 33-01-01-28-430-001  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/01/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693821 16B RM6 West Wall Analyst: Scott Larabell	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693822 17A North Floor RM7 Analyst: Scott Larabell	Linoleum	Pink Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
693823 17B East Floor RM7 Analyst: Scott Larabell	Linoleum	Pink Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
693824 18A North Floor RM7 Analyst: Scott Larabell	12x12 Peel and Stick	Beige Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
693825 18B East Floor RM7 Analyst: Scott Larabell	12x12 Peel and Stick	Beige Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
693826 19A North Floor RM7 Analyst: Scott Larabell	Floor Underlayment	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
693827 19B East Floor RM7 Analyst: Scott Larabell	Floor Underlayment	Black Fibrous Homogenous	85% Cellulose	15% 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 :**  
 602 S Park Blvd, Lansing, MI

**ETC Job :** 199869  
**Client Project :** 33-01-01-28-430-001  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/01/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693828 20A Vermiculite Assumed Analyst: Scott Larabell		Not Analyzed			
693829 20B Vermiculite Assumed Analyst: Scott Larabell		Not Analyzed			



Lab Supervisor/Other Signatory



Analyst: Renee Renauer



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 #: 199869

<b>Client:</b> ETC	<b>Contact:</b> LIV Hagerman	<b>Project Location/Name:</b> 602 S PARK BLVD LANSING MI
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Phone:</b> (734) 955-6600 <b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2etil.com	<b>Client Project #:</b> 199869
<b>Please Provide Results:</b> <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		<b>Date Sampled:</b> 12/3/17

**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 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
634715	01A-B	Please see Attached Sheets	
↓	↓		
634722	04-A-B		

	Date	Time
Relinquished (Name/Organization): <i>John Gleason</i>	12/3/17	5:00 am/pm
Received (Name/ETL): <i>[Signature]</i>	12/5/17	11:30 am/pm
Stereoscopic Analysis (Name/ETL): <i>Renee R</i>	12-6-17	am/pm
Sample Login (Name/ETL): <i>[Signature]</i>	12/4/17	am/pm
Analysis (Name/ETL): <i>Renee R</i>	12-6-17	am/pm
QA/QC Review (Name/ETL): <i>[Signature]</i>	12/11/17	am/pm

<b>Special Instructions:</b>	<b>Remarks:</b>
------------------------------	-----------------

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: <u>602 S. Park Blvd, Lansing MI</u>		Date: <u>12/3/17</u>	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: <u>house wrap</u> Description: <u>black</u>	NF	A	<u>w of front entry</u>	1300	
			B	<u>SW side</u>		
2	Material: <u>garage wrap</u> Description: <u>tan</u>	NF	A	<u>N side west entry</u>	<del>1500</del>	
			B	<u>" "</u>		
3	Material: <u>window glaze</u> Description: <u>white</u>	F	A	<u>w front window</u>	15	
			B	<u>SW side S window</u>	<u>wind</u>	
4	Material: <u>Asphalt Shingle</u> Description: <u>grey</u>	NF	A	<u>N side W entry</u>	15	
			B	<u>N side E entry</u>	<u>AT5</u>	
			A	<u>" "</u>		
			B	<u>" "</u>		
			A	<u>" "</u>		
			B	<u>" "</u>		
			A	<u>" "</u>		
			B	<u>" "</u>		
			A	<u>" "</u>		
			B	<u>" "</u>		
			A	<u>" "</u>		
			B	<u>" "</u>		

2 samples

2 of 2

**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 #: 199869

<b>Client:</b> ETC	<b>Contact:</b>	<b>Project Location/Name:</b> 602 S Park Blvd, Lansing, MI
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Phone:</b> (734) 955-6600	<b>Client Project #:</b>
	<b>Fax:</b> (734) 955-6604	<b>Date Sampled:</b> 2/27/18
	<b>E-mail:</b> results@2etc.com	
<b>Please Provide Results:</b> <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)

3 days

PLM EPA600/R-93/116, 1993 (Standard method)

Point Counting: 400 Points\*

PLM Non-Building Material (Dust, Wipe, Tape)

Stop at 1st Positive -  
 Clearly mark Homogenous Group

Soil or Vermiculite Analysis \*

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	05A-E		
	06A-C		
	07A-B		
	↓		
	19A-B		

	Date	Time
Relinquished (Name/Organization):	2/27/18	5:30 am/pm
Received (Name/ETL):	2/28/18	1:08 am/pm
Stereoscopic Analysis (Name/ETL):	2-28-18	am/pm
Sample Login (Name/ETL):	2/28/18	2:29 am/pm
Analysis (Name/ETL):	2-28-18	am/pm
QA/QC Review (Name/ETL):	2/28/18	9:55 am/pm

**Special Instructions:**

**Remarks:**

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #: 199869		Building: 602 S Park Blvd, Lansing			Date: 2/27/18		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout Bldg (Please List all Rooms)	Quantity	Picture #
05	Grey w/skimcoat	NF	A	Rm 1 south wall 60937944	1-6	2100 SF	
			B	Rm 3 ceiling center 7945			
			C	Rm 5 east wall 7946			
			D	Rm 4 center ceiling 7947			
			E	Rm 3 south wall 7948			
09	white	NF	A	Rm 1 center ceiling 7949	113,4	450 SF	
			B	Rm 3 center ceiling 8000			
			C	Rm 4 center ceiling 8001			
			D				
			E				
Material: Texture							
Material:							

<1000 SF = 3 samples

1000 - <5000 = 5 samples

# 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 #
199869	Building: 602 Sparn Blvd							
07	Material: Mud Description: white	F	A	Paul east ceiling	Throughout		2400 SF	
			B	Nm 1 west ceiling				
08	Material: Tape Description: white	NF	A	Same as 07A	Throughout		2900 SF	
			B	Same as 07B				
09	Material: Drywall Description: white	NF	A	Nm 1 west wall	Throughout		2900 SF	
			B	Nm 6 center ceiling				
10	Material: Linoleum Description: white	NF	A	Nm 5 north floor	5		75 SF	
			B	Nm 5 west floor				
11	Material: mastic Description: orange	NF	A	Same as 10A	5		75 SF	
			B	Same as 10B				
12	Material: Peeling mastic Description: yellow	NF	A	Nm 5 south wall	5		300 SF	
			B	Nm 5 east wall				
13	Material: Tile mastic Description: yellow	NF	A	Nm 5 south wall	5		300 SF	
			B	Nm 5 east wall				
14	Material: Linoleum Description: orange	NF	A	Nm 6 north wall	6		200 SF	
			B	Nm 6 west wall				
15	Material: 12x12 Floor Tile Description: blue	NF	A	Same as 14A	6		200 SF	
			B	Same as 14B				
16	Material: Mastic Description: yellow	NF	A	Same as 14A	6		200 SF	
			B	Same as 14B				

2 samples

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Building:		Date:				
199869	602 S Park Blvd		9/22/15	2) 27 118			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
17	Material: Linoleum	NF	A	north floor Rm 7 (03502)	7	200 SF	
	Description: pink		B	east floor Rm 7 823			
18	Material: 12x12 PLS	NF	A	same as 17A	7	200 SF	
	Description: beige		B	same as 17B 825			
19	Material: Floor underlayment	NF	A	same as 17A	7	200 SF	
	Description: black		B	same as 17B 827			
20	Material: Vermiculite	F	A	ASSUMED	Attic	1500 SF	
	Description:		B	828			
	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 and Jake Gleason, Michigan Certified Asbestos Inspector (s)  
Michigan Accreditation Number (s) A-48908 & A-49991

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-010-28-432-051
House No:	629 Denver Ave, Lansing, MI 48910
Date Inspected:	12/27/2017
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information			
No. Stories	1	Garage	Attached
Square Footage	1377 SF	Garage Square Footage	288 SF
Basement Square Footage	No Basement	Garage Siding	Aluminum
Siding	Aluminum	Garage Color	White
Color	White	Garage Shingles	Asphalt
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-010-28-432-051  
House No. 629 Denver Ave, Lansing, MI 48910  
Date Inspected: 12/27/2017

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Hot Water Tank	1	Room 4
Fire Extinguishers	1	Room 2
Smoke Detectors	1	Room 1
Thermostats	1	Room 2

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
-----------------	-----------------------------	-----------------

None observed above household quantities		
--	--	--

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-010-28-432-051
House No.	629 Denver Ave, Lansing, MI 48910
Date Inspected:	12/27/2017

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

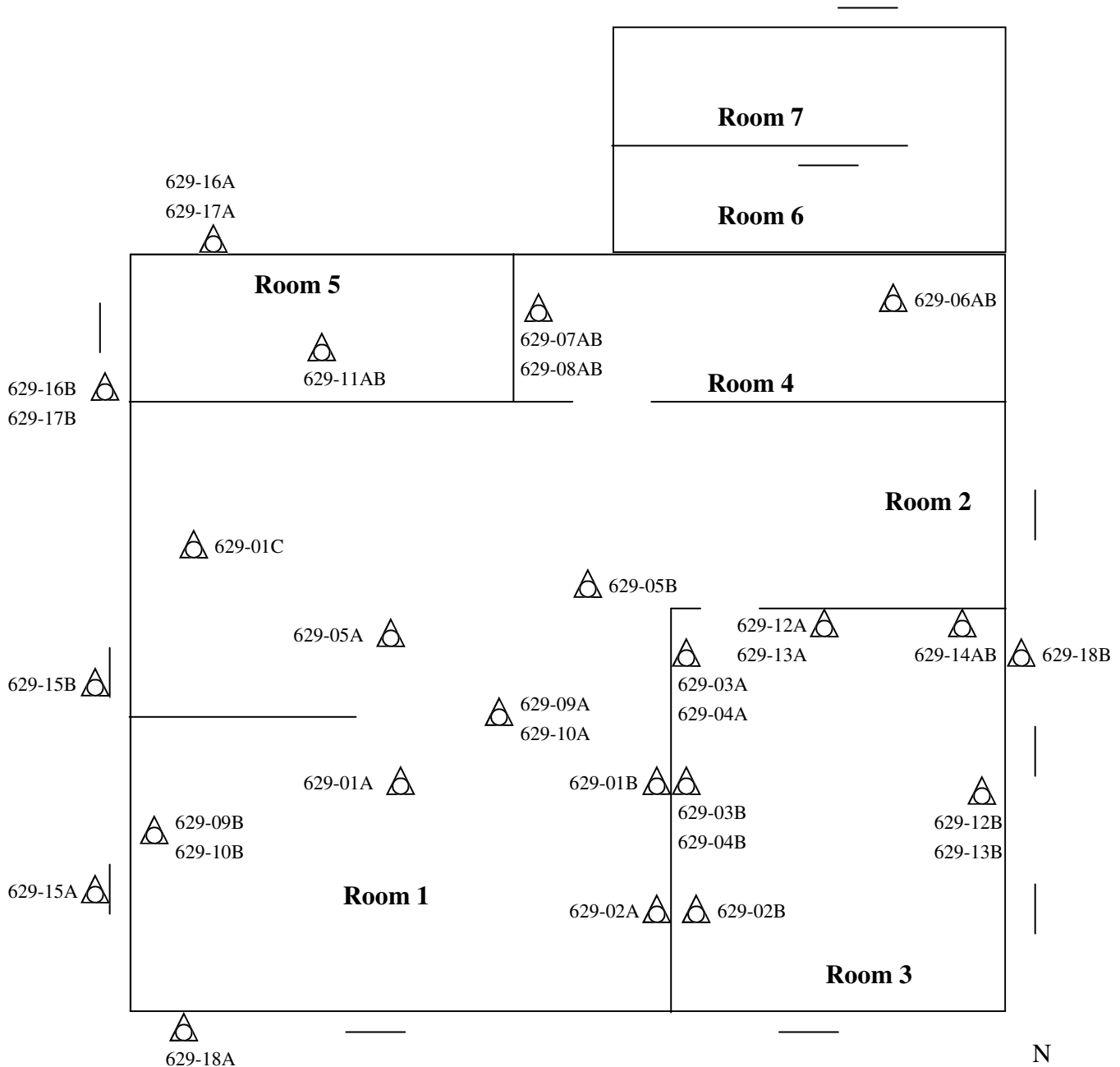
Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Texture, cream	Room 1, 2	395 SF	No
2	NF	Drywall, white	Throughout	2615 SF	No
3	NF	Tape, white	Throughout	300 SF	No
4	NF	Mud, white	Throughout	300 SF	No
5	NF	12x12 Peel and stick, white/tan	Room 2	189 SF	No
6	NF	12x12 Peel and stick, cream	Room 4	15 SF	No
7	NF	12x12 Floor tile, cream	Room 4	15 SF	No
8	NF	Mastic, black	Room 4	15 SF	No
<b>9</b>	<b>NF</b>	<b>9x9 Floor tile, grey</b>	<b>Room 1</b>	<b>180 SF</b>	<b>YES</b>
10	NF	Mastic, black	Room 1	180 SF	No
11	NF	Ceiling tile, white	Room 5	20 SF	No
<b>12</b>	<b>NF</b>	<b>9x9 Floor tile, black</b>	<b>Room 3</b>	<b>225 SF</b>	<b>YES</b>
13	NF	Mastic, black	Room 3	225 SF	No
14	NF	Fiberboard, white/tan	Room 3	120 SF	No
15	NF	Window glaze, white	Exterior	10 windows	No
16	NF	House wrap, tan	Exterior (house)	3120 SF	No
17	NF	House wrap, black	Exterior (house)	3120 SF	No
18	NF	Shingle, black/white	Exterior (house)	1377 SF	No
<b>19</b>	<b>F</b>	<b>Vermiculite, tan</b>	<b>Exterior walls (house)</b>	<b>3120 SF</b>	<b>YES*</b>

**YES\*** - assumed

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:

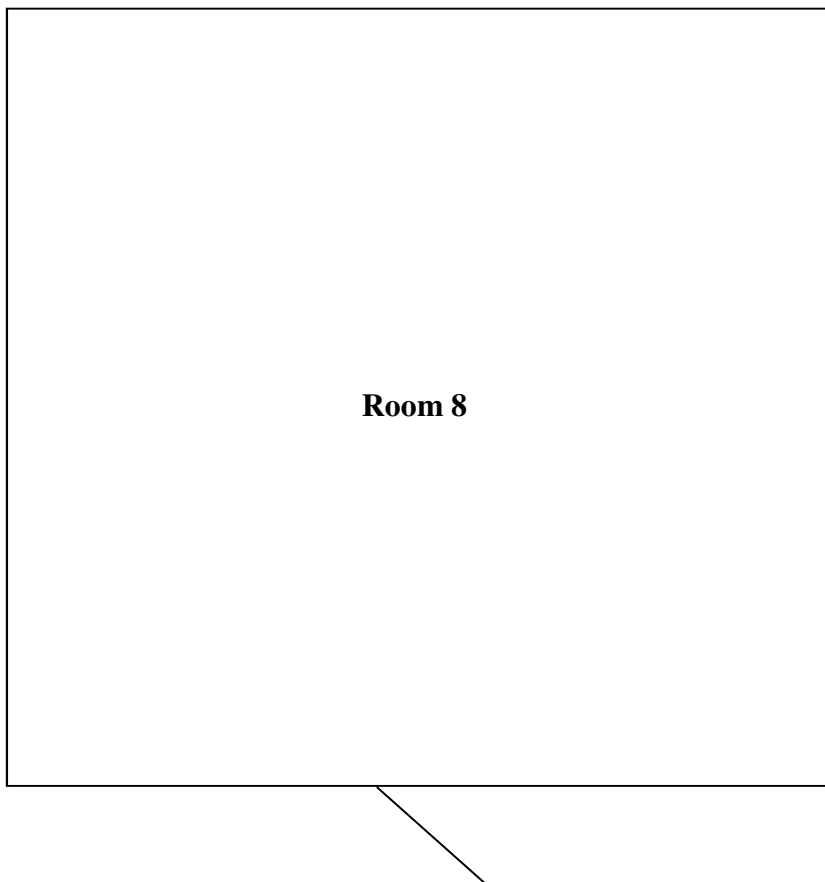
Site Drawing



 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.

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-010-28-432-051  
House No. 629 Denver Ave, Lansing, MI 48910  
Date Inspected: 12/27/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel: 33-01-010-28-432-051  
House No. 629 Denver Ave, Lansing, MI 48910  
Date Inspected: 12/27/2017



Garage



Shed

## Representative Pictures of Hazardous Materials

Parcel: 33-01-010-28-432-051  
House No. 629 Denver Ave, Lansing, MI 48910  
Date Inspected: 12/27/2017



Hot Water Tank



Fire Extinguishers



Smoke Detectors



Thermostats

## Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-010-28-432-051  
House No. 629 Denver Ave, Lansing, MI 48910  
Date Inspected: 12/27/2017



Vermiculite



9x9 Floor tile, grey



9x9 Floor tile, black

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 :  
629 Denver Ave, Lansing, MI

**Attention :**

Client Project : 33-01-010-28-432-051

ETC Job : 199870

Report Date : 1/3/2018

Login #	Sample ID	Work Requested	Completed
644266	01A	Asbestos Analysis	01/02/2018
644267	01B	Asbestos Analysis	01/02/2018
644268	01C	Asbestos Analysis	01/02/2018
644269	02A	Asbestos Analysis	01/02/2018
644270	02B	Asbestos Analysis	01/02/2018
644271	03A	Asbestos Analysis	01/02/2018
644272	03B	Asbestos Analysis	01/02/2018
644273	04A	Asbestos Analysis	01/02/2018
644274	04B	Asbestos Analysis	01/02/2018
644275	05A	Asbestos Analysis	01/02/2018
644276	05B	Asbestos Analysis	01/02/2018
644277	06A	Asbestos Analysis	01/02/2018
644278	06B	Asbestos Analysis	01/02/2018
644279	07A	Asbestos Analysis	01/02/2018
644280	07B	Asbestos Analysis	01/02/2018
644281	08A	Asbestos Analysis	01/02/2018
644282	08B	Asbestos Analysis	01/02/2018
644283	09A	Asbestos Analysis	01/02/2018
644284	09B	Asbestos Analysis	01/02/2018
644285	10A	Asbestos Analysis	01/02/2018



---

Login #	Sample ID	Work Requested	Completed
644286	10B	Asbestos Analysis	01/02/2018
644287	11A	Asbestos Analysis	01/02/2018
644288	11B	Asbestos Analysis	01/02/2018
644289	12A	Asbestos Analysis	01/02/2018
644290	12B	Asbestos Analysis	01/02/2018
644291	13A	Asbestos Analysis	01/02/2018
644292	13B	Asbestos Analysis	01/02/2018
644293	14A	Asbestos Analysis	01/02/2018
644294	14B	Asbestos Analysis	01/02/2018
644295	15A	Asbestos Analysis	01/02/2018
644296	15B	Asbestos Analysis	01/02/2018
644297	16A	Asbestos Analysis	01/02/2018
644298	16B	Asbestos Analysis	01/02/2018
644299	17A	Asbestos Analysis	01/02/2018
644300	17B	Asbestos Analysis	01/02/2018
644301	18A	Asbestos Analysis	01/02/2018
644302	18B	Asbestos Analysis	01/02/2018
644303	19A	Asbestos Analysis	01/02/2018
644304	19B	Asbestos Analysis	01/02/2018

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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 :**  
 629 Denver Ave, Lansing, MI

**ETC Job :** 199870  
**Client Project :** 33-01-010-28-432-051  
**Date Collected :** 12/27/2017  
**Date Received :** 12/29/2017  
**Date Analyzed :** 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644266 01A RM1 Ceiling Center Analyst: Sarah Poirier	Texture	Cream Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
644267 01B RM1 E Wall Analyst: Sarah Poirier	Texture	Cream Non-Fibrous Homogenous		100% Other	None Detected
644268 01C RM2 W Ceiling Analyst: Sarah Poirier	Texture	Cream Non-Fibrous Homogenous		100% Other	None Detected
644269 02A RM1 E Wall Analyst: Sarah Poirier	Drywall	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
644270 02B RM3 W Wall Analyst: Sarah Poirier	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
644271 03A RM3 W Wall Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	95% Cellulose	5% Other	None Detected
644272 03B RM3 W Wall Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	93% Cellulose	7% 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 :**  
 629 Denver Ave, Lansing, MI

**ETC Job :** 199870  
**Client Project :** 33-01-010-28-432-051  
**Date Collected :** 12/27/2017  
**Date Received :** 12/29/2017  
**Date Analyzed :** 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644273 04A RM3 W Wall Analyst: Sarah Poirier	Mud	White Non-Fibrous Homogenous		100% Other	None Detected
644274 04B RM3 W Wall Analyst: Sarah Poirier	Mud	White Non-Fibrous Homogenous		100% Other	None Detected
644275 05A RM2 S Wall Analyst: Sarah Poirier	12x12 Peel & Stick	White/Tan Non-Fibrous Homogenous		100% Other	None Detected
644276 05B RM2 SE Wall Analyst: Sarah Poirier	12x12 Peel & Stick	White/Tan Non-Fibrous Homogenous		100% Other	None Detected
644277 06A RM4 E Floor Analyst: Sarah Poirier	12x12 Peel & Stick	Cream Non-Fibrous Homogenous		100% Other	None Detected
644278 06B RM4 E Floor Analyst: Sarah Poirier	12x12 Peel & Stick	Cream Non-Fibrous Homogenous		100% Other	None Detected
644279 07A RM4 W Floor Analyst: Sarah Poirier	12x12 Peel & Stick	Cream 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 :**  
 629 Denver Ave, Lansing, MI

**ETC Job :** 199870  
**Client Project :** 33-01-010-28-432-051  
**Date Collected :** 12/27/2017  
**Date Received :** 12/29/2017  
**Date Analyzed :** 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644280 07B RM4 W Floor Analyst: Sarah Poirier	12x12 Peel & Stick	Cream Non-Fibrous Homogenous		100% Other	None Detected
644281 08A RM4 W Floor Analyst: Sarah Poirier	Tile	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
08A and 08B are tiles, not mastic					
644282 08B RM4 W Floor Analyst: Sarah Poirier	Tile	Brown Non-Fibrous Homogenous		100% Other	None Detected
644283 09A RM1 N Floor Analyst: Sarah Poirier	9x9 Floor Tile	Grey Non-Fibrous Homogenous		97% Other	3% Chrysotile
644284 09B RM1 W Floor Analyst: Sarah Poirier		Not Analyzed			
644285 10A RM1 N Floor Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous		100% Other	None Detected
644286 10B RM1 W Floor Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous		100% 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 :**  
 629 Denver Ave, Lansing, MI

**ETC Job :** 199870  
**Client Project :** 33-01-010-28-432-051  
**Date Collected :** 12/27/2017  
**Date Received :** 12/29/2017  
**Date Analyzed :** 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644287 11A RM5 Center Ceiling Analyst: Sarah Poirier	Ceiling Tile	White Fibrous Homogenous	40% Cellulose 30% Mineral wool	30% Other	None Detected
644288 11B RM5 S Ceiling Analyst: Sarah Poirier	Ceiling Tile	White Fibrous Homogenous	40% Cellulose 30% Mineral wool	30% Other	None Detected
644289 12A RM3 N Floor Analyst: Sarah Poirier	9x9 Floor Tile	Black Non-Fibrous Homogenous	1% Cellulose	96% Other	3% Chrysotile
644290 12B RM3 E Floor Analyst: Sarah Poirier		Not Analyzed			
644291 13A RM3 N Floor Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous		100% Other	None Detected
644292 13B RM3 E Floor Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous		100% Other	None Detected
644293 14A RM3 N Wall Analyst: Sarah Poirier	Fiberboard	White/Tan Fibrous Homogenous	99% Cellulose	1% 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 :**  
 629 Denver Ave, Lansing, MI

**ETC Job :** 199870  
**Client Project :** 33-01-010-28-432-051  
**Date Collected :** 12/27/2017  
**Date Received :** 12/29/2017  
**Date Analyzed :** 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644294 14B RM3 N Wall Analyst: Sarah Poirier	Fiberboard	White/Tan Fibrous Homogenous	99% Cellulose	1% Other	None Detected
644295 15A RM1 W Ext Window Analyst: Sarah Poirier	Window Glaze	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
644296 15B RM1 W Ext Window Analyst: Sarah Poirier	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
644297 16A N Ext House Wall Analyst: Sarah Poirier	House Wrap	Tan Fibrous Homogenous	99% Cellulose	1% Other	None Detected
644298 16B W Ext House Wall Analyst: Sarah Poirier	House Wrap	Tan Fibrous Homogenous	99% Cellulose	1% Other	None Detected
644299 17A N Ext House Wall Analyst: Sarah Poirier	House Wrap	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
644300 17B W Ext House Wall Analyst: Sarah Poirier	House Wrap	Black Fibrous Homogenous	95% Cellulose	5% 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

**ETC Job :** 199870  
**Client Project :** 33-01-010-28-432-051  
**Date Collected :** 12/27/2017  
**Date Received :** 12/29/2017  
**Date Analyzed :** 01/02/2018

**Location :**  
 629 Denver Ave, Lansing, MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644301 18A S Ext House Roof Analyst: Sarah Poirier	Shingle	Black/White Non-Fibrous Homogenous	10% Fiberglass	90% Other	None Detected
644302 18B E Ext House Roof Analyst: Sarah Poirier	Shingle	Black/White Non-Fibrous Homogenous	15% Fiberglass	85% Other	None Detected
644303 19A  Analyst: Sarah Poirier		Not Analyzed			
644304 19B  Analyst: Sarah Poirier		Not Analyzed			



Lab Supervisor/Other Signatory



Analyst: Sarah Poirier

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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# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	199870		Building:	629 Denver Ave		Date:	12/27/17	
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: Dry wall Description: white	NF	A	Rm 1 east wall	Through out	20's SF	9	
03	Material: Tape Description: white	NF	B	Rm 3 west wall	Through out	150 SF	19	
04	Material: Mud Description: white	NF	A	Rm 3 west wall	Through out	300 SF	19	
05	Material: 12x12 P&S Description: white / tan	NF	B	Same as 03A				
06	Material: 12x12 P&S Description: cream	NF	A	Same as 03B				
07	Material: 12x12 Floor Tile Description: Cream	NF	B	Rm 2 South floor		189 SF	20	
08	Material: Mastic Description: black	NF	A	Rm 4 east floor		15 SF	22	
09	Material: 9x9 floor Tile Description: grey	NF	B	Rm 4 east + floor		15 SF	10	
10	Material: Mastic Description: black	NF	A	Rm 4 west floor		15 SF	10	
11	Material: ceiling Tile Description: white	NF	B	Same as 07A		15 SF	21	
			A	Same as 07B		15 SF	21	
			B	Rm 1 North floor		180 SF	21	
			A	Rm 1 west floor		180 SF	21	
			B	Same as 09A		180 SF	21	
			A	Same as 09B		180 SF	21	
			B	Rm 5 center ceiling		20 SF	17	
			A	Rm 5 south ceiling		20 SF	17	

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: 629 Denver Ave		Date: 12/27/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		
12	Material: 9x9 floor tile Description: black	NF	A	Rm 3 north floor 298	225 SF	20
			B	Rm 3 east floor 290		
13	Material: Mastic Description: black	NF	A	Same as 12A 291	225 SF	20
			B	Same as 12B 293		
14	Material: fiberboard Description: white/tan	NF	A	Rm 3 north wall 293	120 SF	13
			B	Rm 3 north wall 294		
15	Material: Window Glaze Description: white	NF	A	Rm 1 west ext window 295	ext windows	4
			B	Rm 2 west ext window 296	10 units	
16	Material: House wrap Description: tan	NF	A	North ext house wall 297	3120 SF	25
			B	West ext house wall 298		
17	Material: House wrap Description: black	NF	A	Same as 16A 299	ext	24
			B	Same as 16B 300	house	
18	Material: Shingle Description: black/white	NF	A	South ext house roof 301	1377 SF	8
			B	east ext house roof 302		
19	Material: Vermiculite Description: tan	F	A	Assumed 303	ext walls	20
			B	304		
			A			
			B			
			A			
			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:	33-01-01-29-278-011
House No:	2505 S MLK Blvd, Lansing, MI, 48910
Date Inspected:	11/22/2017 & 2/15/2018
Inspected By:	Bryan Dryer & Jake Gleason
Inspectors State Card #	A-40292 & A-49991

Building Information			
No. Stories	2	Garage	Detached
Square Footage	1000 SF	Garage Square Footage	320 SF
Basement Square Footage	800 SF	Garage Siding	Wood
Siding	Transite	Garage Color	Tan
Color	Tan and Green	Garage Shingles	Asphalt Shingle
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



## Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-29-278-011  
House No. 2505 S MLK Blvd, Lansing, MI, 48910  
Date Inspected: 11/22/2017 & 2/15/2018

**TABLE 1**

### HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
TV Screens	1	Room 12
Paint Cans	2 (5 gallon buckets)	Room 12

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Tires	3	Exterior (garage)



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-29-278-011  
 House No. 2505 S MLK Blvd, Lansing, MI, 48910  
 Date Inspected: 11/22/2017 & 2/15/2018

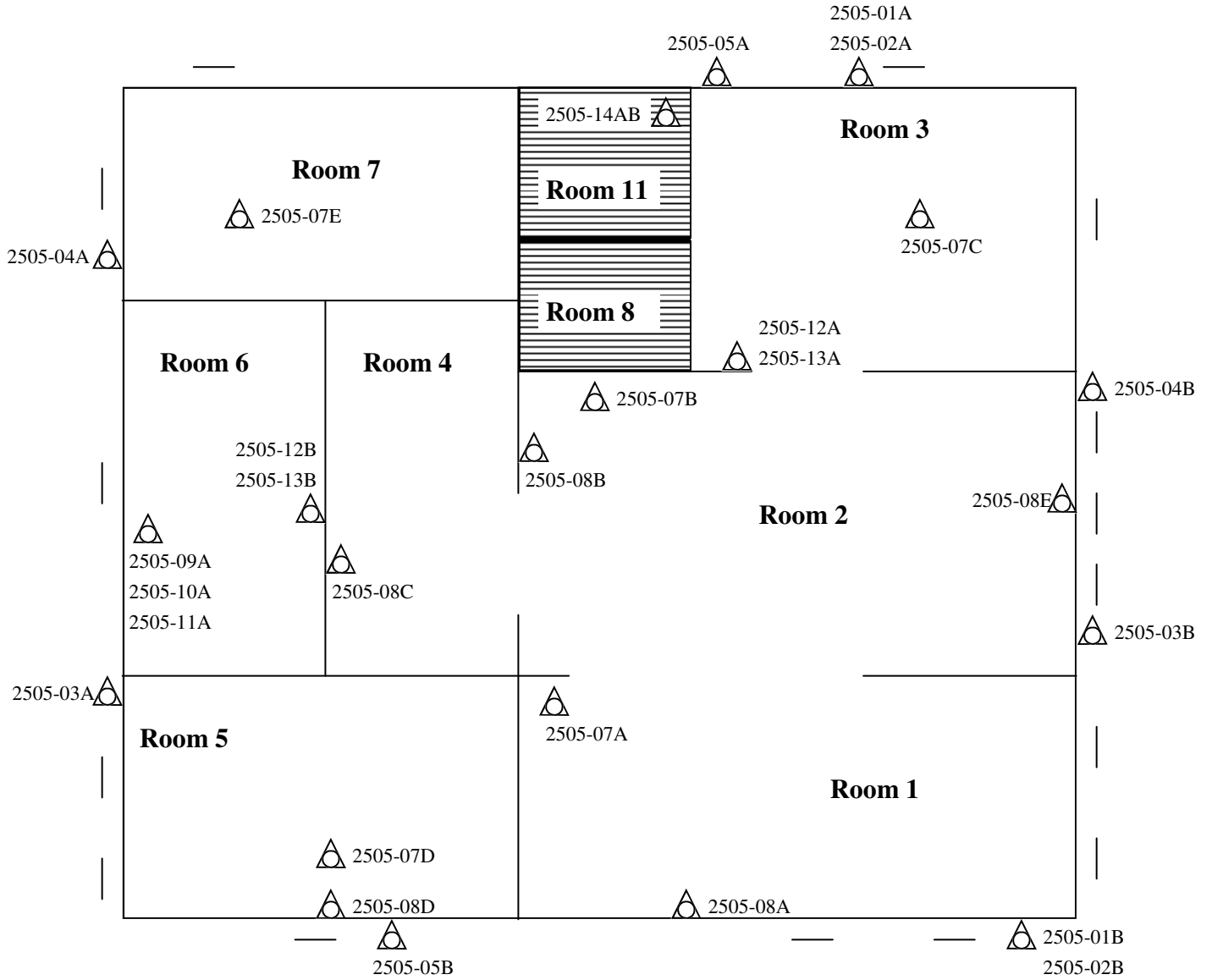
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Shingles ,tan	Exterior (house)	1500 SF	No
2	NF	Shingles, green	Exterior (house)	1500 SF	No
3	NF	House wrap, black	Exterior (house)	2000 SF	No
4	NF	Window glaze, white	Exterior (windows)	17 windows	No
<b>5</b>	<b>NF</b>	<b>Transite, tan</b>	<b>Exterior (house)</b>	<b>1850 SF</b>	<b>YES</b>
6	NF	Roofing material, black	Exterior (garage)	450 SF	No
7	NF	Skim coat, white	Room 1-7	1000 SF	No
8	NF	Plaster, grey horse hair	Room 1-7	3200 SF	No
9	F	Drywall, white	Throughout	5800 SF	No
10	F	Tape, white	Throughout	5800 SF	No
11	F	Mud, white	Throughout	5800 SF	No
12	NF	Linoleum, tan	Room 3, 6	150 SF	No
13	NF	Mastic, tan	Room 3, 6	150 SF	No
14	NF	12x12 Peel and stick, green/grey	Room 11	50 SF	No
15	NF	12x12 Peel and stick, wood squares	Room 10	45 SF	No
16	NF	Poured concrete, grey	Room 12, 13	800 SF	No
17	NF	Stacked cement, grey	Room 12	4 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:

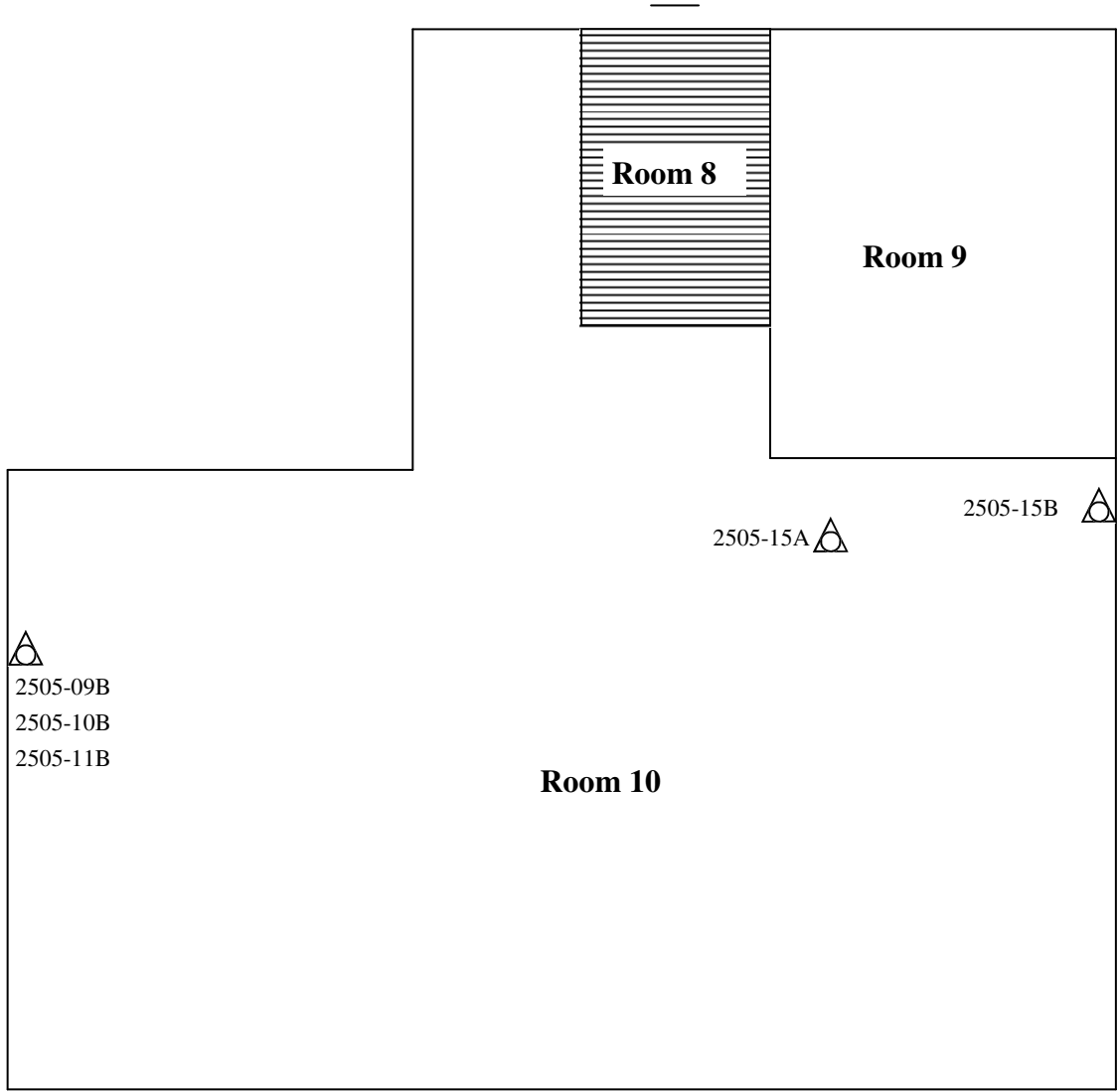
Site Drawing




 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.



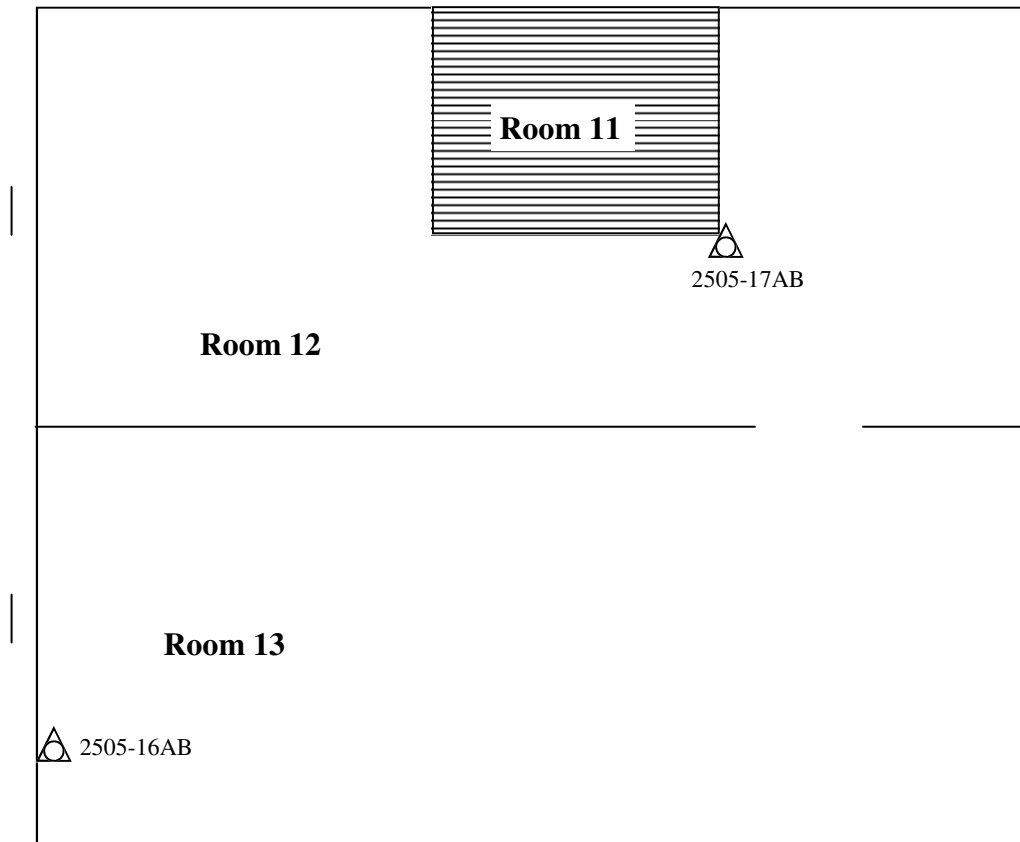


 Sample Location

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**

33-01-01-29-278-011  
2505 S MLK Blvd, Lansing, MI, 48910  
11/22/2017 & 2/15/2018



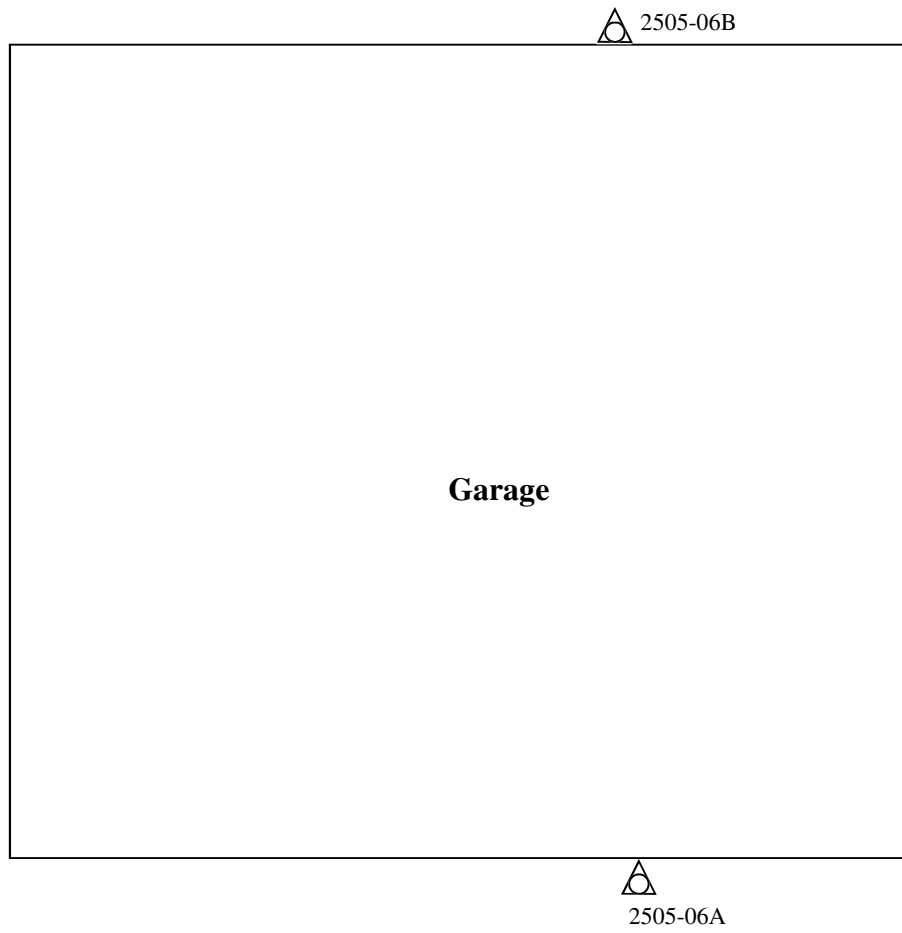
 Sample Location

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  
199871

**Garage**

33-01-01-29-278-011  
2505 S MLK Blvd, Lansing, MI, 48910  
11/22/2017 & 2/15/2018



 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  
199871

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-29-278-011  
House No. 2505 S MLK Blvd, Lansing, MI, 48910  
Date Inspected: 11/22/2017 & 2/15/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property



## Representative Pictures of House/Property

Parcel: 33-01-01-29-278-011  
House No. 2505 S MLK Blvd, Lansing, MI, 48910  
Date Inspected: 11/22/2017 & 2/15/2018



Garage

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-29-278-011  
House No. 2505 S MLK Blvd, Lansing, MI, 48910  
Date Inspected: 11/22/2017 & 2/15/2018



TV Screens



Paint Cans



Tires



Hot Water Heater

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-29-278-011
House No.	2505 S MLK Blvd, Lansing, MI, 48910
Date Inspected:	11/22/2017 & 2/15/2018



Transite, tan

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 :  
2505 S MLK Blvd, Lansing, MI

**Attention :**

Client Project : 33-01-01-29-278-011

ETC Job : 199871

Report Date : 2/19/2018

Login #	Sample ID	Work Requested	Completed
630023	01A	Asbestos Analysis	11/28/2017
630024	01B	Asbestos Analysis	11/28/2017
630025	02A	Asbestos Analysis	11/28/2017
630026	03A	Asbestos Analysis	11/28/2017
630027	03B	Asbestos Analysis	11/28/2017
630028	04A	Asbestos Analysis	11/28/2017
630029	04B	Asbestos Analysis	11/28/2017
630030	05A	Asbestos Analysis	11/28/2017
630031	05B	Asbestos Analysis	11/28/2017
630032	06A	Asbestos Analysis	11/28/2017
630033	06B	Asbestos Analysis	11/28/2017
630120	02B	Asbestos Analysis	11/28/2017
687581	7A	Asbestos Analysis	11/28/2017
687582	7B	Asbestos Analysis	02/19/2018
687583	7C	Asbestos Analysis	02/19/2018
687584	7D	Asbestos Analysis	02/19/2018
687585	7E	Asbestos Analysis	02/19/2018
687586	8A	Asbestos Analysis	02/19/2018
687587	8B	Asbestos Analysis	02/19/2018
687588	8C	Asbestos Analysis	02/19/2018

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
687589	8D	Asbestos Analysis	02/19/2018
687590	8E	Asbestos Analysis	02/19/2018
687591	9A	Asbestos Analysis	02/19/2018
687592	9B	Asbestos Analysis	02/19/2018
687593	10A	Asbestos Analysis	02/19/2018
687594	10B	Asbestos Analysis	02/19/2018
687595	11A	Asbestos Analysis	02/19/2018
687596	11B	Asbestos Analysis	02/19/2018
687597	12A	Asbestos Analysis	02/19/2018
687598	12B	Asbestos Analysis	02/19/2018
687599	13A	Asbestos Analysis	02/19/2018
687600	13B	Asbestos Analysis	02/19/2018
687601	14A	Asbestos Analysis	02/19/2018
687602	14B	Asbestos Analysis	02/19/2018
687603	15A	Asbestos Analysis	02/19/2018
687604	15B	Asbestos Analysis	02/19/2018
687605	16A	Asbestos Analysis	02/19/2018
687606	16B	Asbestos Analysis	02/19/2018
687607	17A	Asbestos Analysis	02/19/2018
687608	17B	Asbestos Analysis	02/19/2018

---

Reviewed by:



Quality Assurance Coordinator

**Login #**

**Sample ID**

**Work Requested**

**Completed**

---

## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 2505 S MLK Blvd, Lansing, MI

**ETC Job :** 199871  
**Client Project :** 33-01-01-29-278-011  
**Date Collected :** 11/22/2017  
**Date Received :** 11/27/2017  
**Date Analyzed :** 11/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630023 01A N. Side Roof Analyst: Liliane Mason	Shingle	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630024 01B S. Side Roof Analyst: Liliane Mason	Shingle	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630025 02A N. Side Roof Analyst: Liliane Mason	Shingle	Green Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630026 03A Ext House W. Side Analyst: Liliane Mason	House Wrap	Black Fibrous Homogenous	30% Cellulose	70% Other	None Detected
630027 03B Ext House E. Side Analyst: Liliane Mason	House Wrap	Black Fibrous Homogenous	30% Cellulose	70% Other	None Detected
630028 04A Window W. Side Analyst: Liliane Mason	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630029 04B Window E. Side Analyst: Liliane Mason	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% 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 :**  
 2505 S MLK Blvd, Lansing, MI

**ETC Job :** 199871  
**Client Project :** 33-01-01-29-278-011  
**Date Collected :** 11/22/2017  
**Date Received :** 11/27/2017  
**Date Analyzed :** 11/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630030 05A Ext House N. Side Analyst: Liliane Mason	Transite	Tan Non-Fibrous Homogenous	1% Cellulose	79% Other	20% Chrysotile
630031 05B Ext House S. Side Analyst: Liliane Mason		Not Analyzed			
630032 06A Garage Roof S. Side Analyst: Liliane Mason	Roofing	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630033 06B Garage Roof N. Side Analyst: Liliane Mason	Roofing	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630120 02B S Side Roof Analyst: Liliane Mason	Shingle	Green Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
687581 7A RM1 NE Ceiling Analyst: Emily Regan	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
687582 7B RM2 NE Ceiling Analyst: Emily Regan	Skim	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 :**  
 2505 S MLK Blvd, Lansing, MI

**ETC Job :** 199871  
**Client Project :** 33-01-01-29-278-011  
**Date Collected :** 02/15/2018  
**Date Received :** 02/16/2018  
**Date Analyzed :** 02/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
687583 7C RM3 E Light Fixture Ceiling Analyst: Emily Regan	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
687584 7D RM5 W Ceiling Analyst: Emily Regan	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
687585 7E RM7 N Light Fixture Ceiling Analyst: Emily Regan	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
687586 8A RM1 S Entry Analyst: Emily Regan	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687587 8B RM2 W Stairs Analyst: Emily Regan	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687588 8C RM4 N Wall Analyst: Emily Regan	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687589 8D RM5 Middle W Wall Analyst: Emily Regan	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 :**  
 2505 S MLK Blvd, Lansing, MI

**ETC Job :** 199871

**Client Project :** 33-01-01-29-278-011

**Date Collected :** 02/15/2018

**Date Received :** 02/16/2018

**Date Analyzed :** 02/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
687590 8E RM2 S Middle Wall Analyst: Emily Regan	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687591 9A RM6 N Wall Analyst: Emily Regan	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
687592 9B RM10 N Wall Analyst: Emily Regan	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
687593 10A RM6 N Wall Analyst: Emily Regan	Tape	White Fibrous Homogenous	3% Cellulose 72% Other fibrous	25% Other	None Detected
687594 10B RM10 N Wall Analyst: Emily Regan	Tape	White Fibrous Homogenous	3% Cellulose 72% Other fibrous	25% Other	None Detected
687595 11A RM6 N Wall Analyst: Emily Regan	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687596 11B RM10 N Wall Analyst: Emily Regan	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 2505 S MLK Blvd, Lansing, MI

**ETC Job :** 199871  
**Client Project :** 33-01-01-29-278-011  
**Date Collected :** 02/15/2018  
**Date Received :** 02/16/2018  
**Date Analyzed :** 02/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
687597 12A RM3 E Entry Analyst: Emily Regan	Linoleum	Tan Fibrous Homogenous	70% Cellulose	30% Other	None Detected
687598 12B RM6 Entry Analyst: Emily Regan	Linoleum	Tan Fibrous Homogenous	70% Cellulose	30% Other	None Detected
687599 13A RM3 E Entry Analyst: Emily Regan	Mastic	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
687600 13B RM6 Entry Analyst: Emily Regan	Mastic	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
687601 14A RM11 Back Door Analyst: Emily Regan	12x12 Peel and Stick	Green Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
687602 14B RM11 Back Door Analyst: Emily Regan	12x12 Peel and Stick	Green Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
687603 15A N Edge Analyst: Emily Regan	12x12 Peel and Stick	Wood 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 :**  
 2505 S MLK Blvd, Lansing, MI

**ETC Job :** 199871  
**Client Project :** 33-01-01-29-278-011  
**Date Collected :** 02/15/2018  
**Date Received :** 02/16/2018  
**Date Analyzed :** 02/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
687604 15B S Edge Analyst: Emily Regan	12x12 Peel and Stick	Wood Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
687605 16A Rm13 NW Corner Analyst: Emily Regan	Poured Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687606 16B RM13 NW Corner Analyst: Emily Regan	Poured Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687607 17A RM12 Chimney Analyst: Emily Regan	Stacked Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687608 17B RM12 Chimney Analyst: Emily Regan	Stacked Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Emily Regan



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 :**

2505 S MLK Blvd, Lansing, MI

**ETC Job :** 199871

**Client Project :** 33-01-01-29-278-011

**Date Collected :** 02/15/2018

**Date Received :** 02/16/2018

**Date Analyzed :** 02/19/2018

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.2eti.com

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 19 199871

<b>Client:</b> ETC	<b>Contact:</b> LV HAKEMAN	<b>Project Location/Name:</b> 2505 S. MLK BLVD. LANSING, MI
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Phone:</b> (734) 955-6600 <b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2eti.com	<b>Client Project #:</b> 199871
<b>Please Provide Results:</b> <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		<b>Date Sampled:</b> 11-22-2017

**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
630023	01 A/B - 06 A/B	AS PER SAMPLE	AS PER SAMPLE
↓		Collected from	collected from
630033			

	Date	Time
Relinquished (Name/Organization):	BRYAN DAYOR [Signature]	11-22-2017 5:30 am/pm
Received (Name/ETL):	[Signature]	11/28/17 8:00 am/pm
Stereoscopic Analysis (Name/ETL):	[Signature]	11/28/17 am/pm
Sample Login (Name/ETL):	[Signature]	11/28/17 am/pm
Analysis (Name/ETL):	[Signature]	am/pm
QA/QC Review (Name/ETL):	[Signature]	11/28/17 am/pm

**Special Instructions:** Point Count ALL POSITIVE SAMPLES AT OR ABOVE 3%!  
**Remarks:**

[Signature]

# Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: 2505 S. Milk Blvd, Lansing MI		Date:	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: Shingles house Description: Tan	MF	A	N Side Roof 630023	1500	
			B	S. Side Roof 24	1150	
02	Material: Shingles house Description: Green	NF	A	SAME AS 01 25	200	
			B	630120	1150	
03	Material: House wrap Description: Black	NF	A	EXT House W side 26	2000 sq	
			B	EXT house E side 27		
04	Material: Window Glaz Description: White	MF	A	Window W. side 28	17 windows	
			B	Window E. side 29		
05	Material: Transite Description: Tan	NF	A	EXT House N Side 30	1150	
			B	EXT House S. side 31	50	
06	Material: Roofing materials Description: Black	NF	A	Garage Roof S. Side 32	1500	
			B	Garage Roof N. Side 33	1500	
	Material: Description		A			
			B			
	Material: Description		A			
			B			
	Material: Description		A			
			B			
	Material: Description		A			
			B			



**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 199871

<b>Client:</b> ETC	<b>Contact:</b> Liv Hagerman	<b>Project Location/Name:</b> 2505 S MLK, Lansing MI
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Phone:</b> (734) 955-6600	<b>Client Project #:</b> 2/15/18
<b>Please Provide Results:</b> <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other	<b>Fax:</b> (734) 955-6604	<b>Date Sampled:</b> 199871
<b>E-mail:</b> results@2etl.com		

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

**PLM Instructions**  
 (Check all that apply)

PLM EPA600/R-93/116, 1993 (Standard method)  Stop at 1st Positive -  
Clearly mark Homogenous Group

Point Counting: 400 Points\*  Soil or Vermiculite Analysis \*

PLM Non-Building Material (Dust, Wipe, Tape)

*3 days*

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	07A-E		
	08A-E		
	09A-B		
	↓		
	17A-B		

	Date	Time
Relinquished (Name/Organization): Jake Gleason ETC Group	2/15/18	5:00 am/pm
Received (Name/ETL):	2/16/18	11 am/pm
Stereoscopical Analysis (Name/ETL): Emily Regan	2/19/18	am/pm
Sample Login (Name/ETL): Brittany Walls	2/16/18	12:00 am/pm
Analysis (Name/ETL): Emily Regan	2/19/18	am/pm
QA/QC Review (Name/ETL): Brittany Walls	2/19/18	3:44 am/pm
Special Instructions:	Remarks	

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199871								
		Material: Shim Coat						
	7	White	NF	A	RM 1 NE ceiling 583		1000	
				B	RM 2 NE ceiling 582			
				C	RM 3 E light fixture ceiling 583			
				D	RM 5 W ceiling 584			
				E	RM 7 N light fixture ceiling 585			
		Material: Plaster						
	8	Grey horse hair	NF	A	RM 1 S entry 586		3200	
				B	RM 2 W stairs 587			
				C	RM 4 N wall 588			
				D	RM 5 middle W wall 589			
				E	RM 2 S middle wall 590			
		Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	199871		Building:	2505 S MLK, LAUNING		Date:	2/15/18	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
9	Material: Drywall Description: white	F	A	rm 6 N wall 687591	through out	5800		
	Material: tape Description: white	F	B	rm 10 N wall 592	through out	5800		
10	Material: mud Description: white	F	A	rm 6 N wall 593	through out	5800		
	Material: linoleum Description: tan	NF	B	rm 10 N wall 594	through out	5800		
11	Material: mastic Description: tan	NF	A	rm 6 N wall 595	through out	5800		
	Material: 12x12 P+S Description: green/grey	NF	B	rm 10 N wall 596	3,6	150		
12	Material: 12x12 P+S Description: wood squares	NF	A	rm 3 E entry 597	3,6	150		
	Material: Paired concrete Description: Grey	NF	B	rm 6 entry 598	11	50		
13	Material: Stacked cement Description: grey	NF	A	rm 11 back door 601	10	45		
	Material: Description		B	N edge 603	12,13	800		
	Material: Description		A	S edge 604	12	4		
	Material: Description		B	rm 13 NW corner 605				
	Material: Description		A	rm 13 NW corner 606				
	Material: Description		B	rm 12 chimney 607				
	Material: Description		A	rm 12 chimney 608				
	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: \_\_\_\_\_

Bryan Dryer & Jake Gleason, Michigan Certified Asbestos Inspector (s)  
Michigan Accreditation Number (s) A-40292 & A-49991

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
 3024 Turner Street  
 Lansing, MI 48906

Parcel:	33-01-01-30-453-141
House No:	3210 Viking Rd, Lansing, MI 48911
Date Inspected:	12/22/2017
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	2295 SF	Garage Square Footage	NA
Basement Square Footage	No Basement	Garage Siding	NA
Siding	Aluminum	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: 33-01-01-30-453-141  
House No. 3210 Viking Rd, Lansing, MI 48911  
Date Inspected: 12/22/2017

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Smoke Detectors	2	Room 1, 11

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
None observed above household quantities		



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-30-453-141  
 House No. 3210 Viking Rd, Lansing, MI 48911  
 Date Inspected: 12/22/2017

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

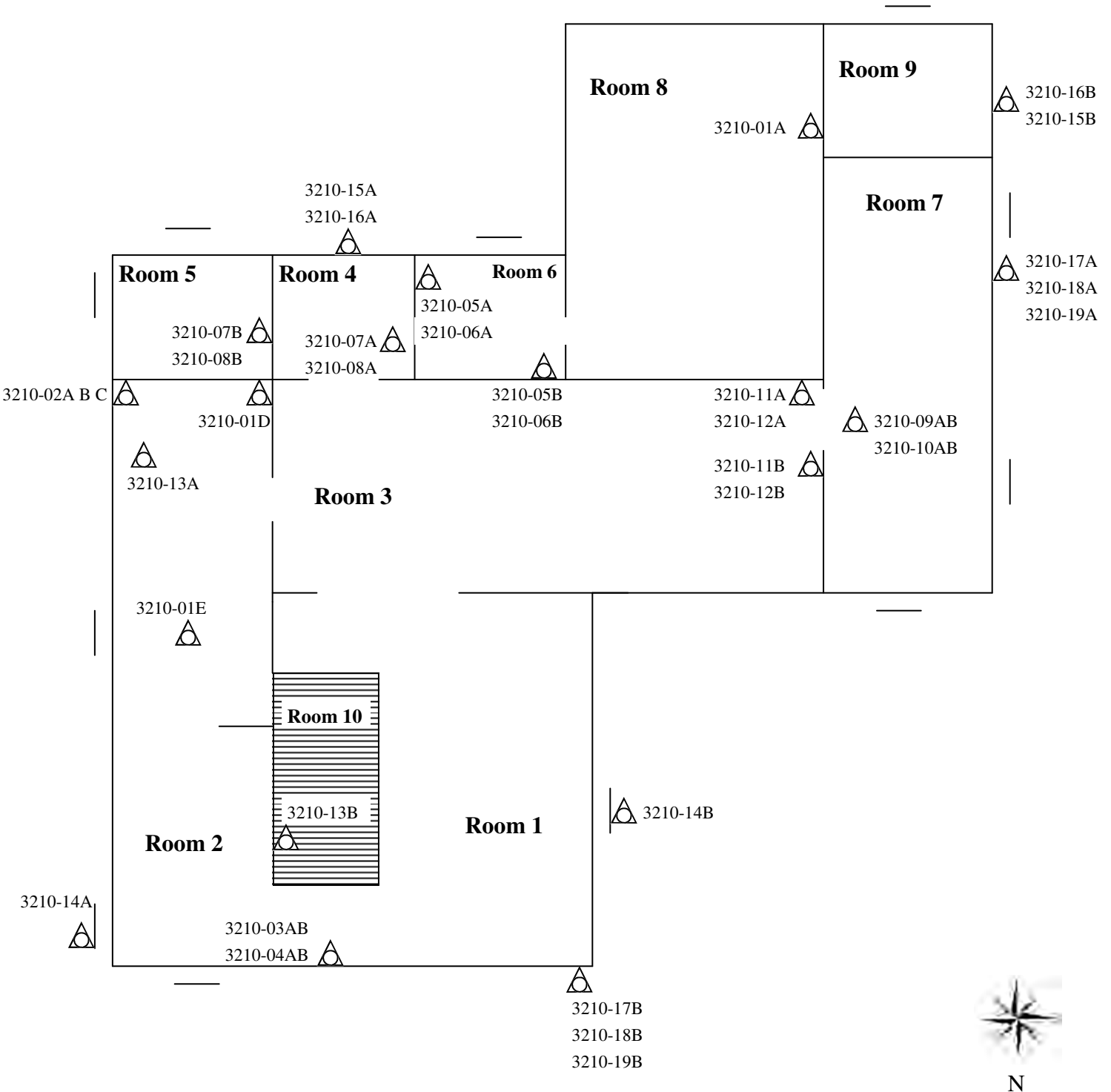
Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Plaster, grey	Throughout	4864 SF	No
2	NF	Skim coat, white	Room 2	96 SF	No
<b>3</b>	<b>NF</b>	<b>Linoleum, red</b>	<b>Room 2</b>	<b>21 SF</b>	<b>YES</b>
4	NF	Mastic, yellow	Room 2	21 SF	No
5	NF	Linoleum, white	Room 6	108 SF	No
6	NF	Paper backing, brown	Room 6	108 SF	No
7	NF	12x12 Tile, beige	Room 4, 5	112 SF	No
8	NF	Mastic, black	Room 4, 5	112 SF	No
9	NF	12x12 Floor tile, white	Room 7	6 SF	No
10	NF	Mastic, yellow	Room 7	6 SF	No
11	NF	9x9 Floor tile, brown	Room 3	54 SF	No
12	NF	Underlayment, brown	Room 3	54 SF	No
13	NF	Fiberboard, tan	Room 2, 3, 8, 10	1840 SF	No
14	NF	Window glaze, white	Exterior (1st floor)	11 windows	No
15	NF	House wrap, black	Exterior	4608 SF	No
16	NF	Fiberboard, black/grey	Exterior	4608 SF	No
17	NF	Shingle, red	Exterior	2300 SF	No
18	NF	Shingle, black	Exterior	2300 SF	No
19	NF	Shingle, brown	Exterior	2300 SF	No
<b>20</b>	<b>F</b>	<b>Vermiculite, tan</b>	<b>Attic, 2nd Floor, Interior outer walls</b>	<b>4689 SF</b>	<b>YES*</b>


YES\* - assumed

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.

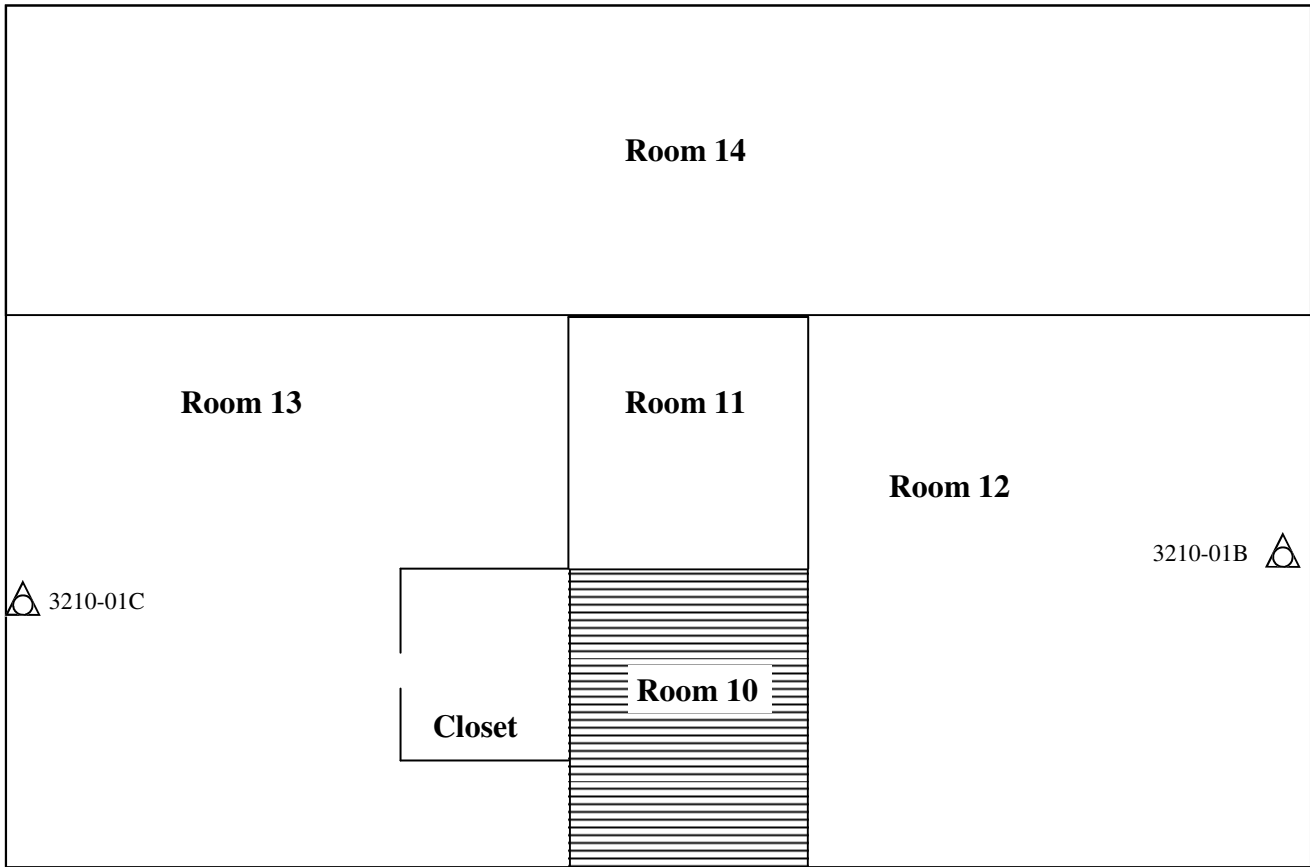
Attachment:

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.

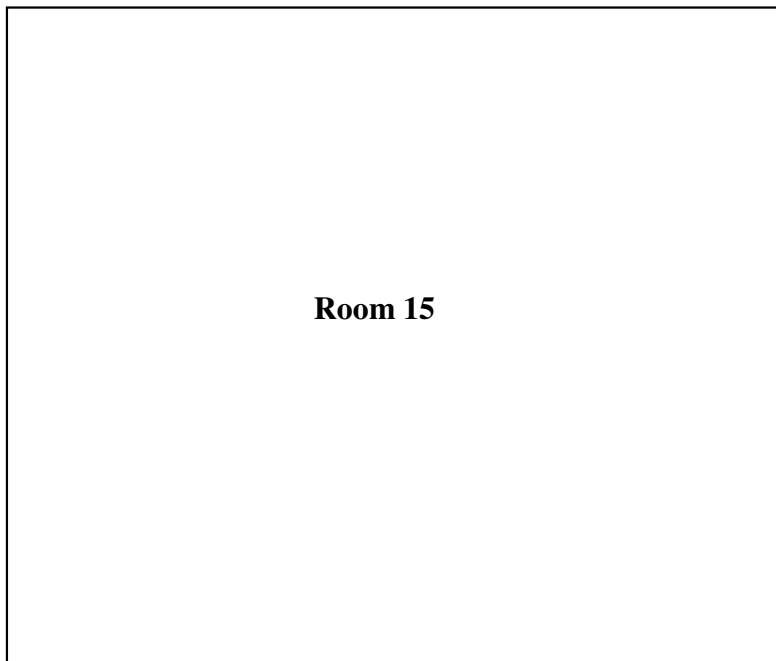


N



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.



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.

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-30-453-141  
House No. 3210 Viking Rd, Lansing, MI 48911  
Date Inspected: 12/22/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of Hazardous Materials

Parcel:	33-01-01-30-453-141
House No.	3210 Viking Rd, Lansing, MI 48911
Date Inspected:	12/22/2017



Smoke Detectors



## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-30-453-141
House No.	3210 Viking Rd, Lansing, MI 48911
Date Inspected:	12/22/2017



Vermiculite, tan



Linoleum, red

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 :  
3210 Viking Rd, Lansing, MI

**Attention :**

Client Project : 33-01-01-30-453-141

ETC Job : 199872

Report Date : 12/27/2017

Login #	Sample ID	Work Requested	Completed
643330	01A	Asbestos Analysis	12/27/2017
643331	01B	Asbestos Analysis	12/27/2017
643332	01C	Asbestos Analysis	12/27/2017
643333	01D	Asbestos Analysis	12/27/2017
643334	01E	Asbestos Analysis	12/27/2017
643335	02A	Asbestos Analysis	12/27/2017
643336	02B	Asbestos Analysis	12/27/2017
643337	02C	Asbestos Analysis	12/27/2017
643338	03A	Asbestos Analysis	12/27/2017
643339	03B	Asbestos Analysis	12/27/2017
643340	04A	Asbestos Analysis	12/27/2017
643341	04B	Asbestos Analysis	12/27/2017
643342	05A	Asbestos Analysis	12/27/2017
643343	05B	Asbestos Analysis	12/27/2017
643344	06A	Asbestos Analysis	12/27/2017
643345	06B	Asbestos Analysis	12/27/2017
643346	07A	Asbestos Analysis	12/27/2017
643347	07B	Asbestos Analysis	12/27/2017
643348	08A	Asbestos Analysis	12/27/2017
643349	08B	Asbestos Analysis	12/27/2017

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---

<b>Login #</b>	<b>Sample ID</b>	<b>Work Requested</b>	<b>Completed</b>
643350	09A	Asbestos Analysis	12/27/2017
643351	09B	Asbestos Analysis	12/27/2017
643352	10A	Asbestos Analysis	12/27/2017
643353	10B	Asbestos Analysis	12/27/2017
643354	11A	Asbestos Analysis	12/27/2017
643355	11B	Asbestos Analysis	12/27/2017
643356	12A	Asbestos Analysis	12/27/2017
643357	12B	Asbestos Analysis	12/27/2017
643358	13A	Asbestos Analysis	12/27/2017
643359	13B	Asbestos Analysis	12/27/2017
643360	14A	Asbestos Analysis	12/27/2017
643361	14B	Asbestos Analysis	12/27/2017
643362	15A	Asbestos Analysis	12/27/2017
643363	15B	Asbestos Analysis	12/27/2017
643364	16A	Asbestos Analysis	12/27/2017
643365	16B	Asbestos Analysis	12/27/2017
643366	17A	Asbestos Analysis	12/27/2017
643367	17B	Asbestos Analysis	12/27/2017
643368	18A	Asbestos Analysis	12/27/2017
643369	18B	Asbestos Analysis	12/27/2017
643370	19A	Asbestos Analysis	12/27/2017
643371	19B	Asbestos Analysis	12/27/2017
643372	Assumed	Asbestos Analysis	12/27/2017
643373	Assumed	Asbestos Analysis	12/27/2017

---

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 :**  
 3210 Viking Rd, Lansing, MI

**ETC Job :** 199872  
**Client Project :** 33-01-01-30-453-141  
**Date Collected :** 12/22/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643330 01A Rm 8 W Wall Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643331 01B Rm 12 W Wall Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
643332 01C Rm 13 E Wall Layer-1 Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643332 01C Rm 13 E Wall Layer-2 Analyst: Dave Cousino	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643333 01D Rm 2 S Wall Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643334 01E Rm 2 Center Ceiling Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643335 02A Rm 2 S Wall Analyst: Dave Cousino	Skim	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 :**  
 3210 Viking Rd, Lansing, MI

**ETC Job :** 199872  
**Client Project :** 33-01-01-30-453-141  
**Date Collected :** 12/22/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643336 02B Rm 2 S Wall Analyst: Dave Cousino	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643337 02C Rm 2 S Wall Analyst: Dave Cousino	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643338 03A N Floor Rm 2 Analyst: Dave Cousino	Linoleum	Red Fibrous Homogenous	60% Cellulose	20% Other	20% Chrysotile
643339 03B N Floor Rm 2 Analyst: Dave Cousino		Not Analyzed			
643340 04A N Floor Rm 2 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
643341 04B N Floor Rm 2 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	8% Cellulose	92% Other	None Detected
643342 05A Rm 6 E Floor Analyst: Dave Cousino	Linoleum	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
 Romulus, MI 48174

**Location :**

3210 Viking Rd, Lansing, MI

**ETC Job :** 199872

**Client Project :** 33-01-01-30-453-141

**Date Collected :** 12/22/2017

**Date Received :** 12/26/2017

**Date Analyzed :** 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643343 05B Rm 6 N Floor Analyst: Dave Cousino	Linoleum	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643344 06A Rm 6 E Floor Analyst: Dave Cousino	Paper Backing	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643345 06B Rm 6 N Floor Analyst: Dave Cousino	Paper Backing	Brown Fibrous Homogenous	60% Cellulose	40% Other	None Detected
643346 07A Rm 4 Center Floor Analyst: Dave Cousino	12x12 Tile	Beige Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643347 07B Rm 5 W Floor Analyst: Dave Cousino	12x12 Tile	Beige Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643348 08A Rm 4 Center Floor Analyst: Dave Cousino	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643349 08B Rm 5 W Floor Analyst: Dave Cousino	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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**Location :**  
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**ETC Job :** 199872  
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**Date Analyzed :** 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643350 09A E Floor Rm 7 Analyst: Dave Cousino	12x12 Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643351 09B E Floor Rm 7 Analyst: Dave Cousino	12x12 Tile	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643352 10A E Floor Rm 7 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643353 10B E Floor Rm 7 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643354 11A Rm 3 W Floor Analyst: Dave Cousino	9x9 Tile	Brown Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
643355 11B Rm 3 W Floor Analyst: Dave Cousino	9x9 Tile	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643356 12A Rm 3 W Floor Analyst: Dave Cousino	Underlayment	Brown Fibrous Homogenous	30% Cellulose	70% 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 :**

3210 Viking Rd, Lansing, MI

**ETC Job :** 199872

**Client Project :** 33-01-01-30-453-141

**Date Collected :** 12/22/2017

**Date Received :** 12/26/2017

**Date Analyzed :** 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643357 12B Rm 3 W Floor Analyst: Dave Cousino	Underlayment	Brown Fibrous Homogenous	40% Cellulose	60% Other	None Detected
643358 13A Rm 2 S Wall Analyst: Dave Cousino	Fiberboard	Tan Fibrous Homogenous	95% Cellulose	5% Other	None Detected
643359 13B Rm 10 E Wall Analyst: Dave Cousino	Fiberboard	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
643360 14A E Window Ext Analyst: Dave Cousino	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643361 14B W Window Ext Analyst: Dave Cousino	Window Glaze	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643362 15A Ext House S Side Analyst: Dave Cousino	House Wrap	Black Fibrous Homogenous	8% Cellulose	92% Other	None Detected
643363 15B Ext House W Side Analyst: Dave Cousino	House Wrap	Black Fibrous Homogenous	12% Cellulose	88% 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 :**  
 3210 Viking Rd, Lansing, MI

**ETC Job :** 199872  
**Client Project :** 33-01-01-30-453-141  
**Date Collected :** 12/22/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643364 16A Ext House S Side Analyst: Dave Cousino	Fiberboard	Black/Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected
643365 16B Ext House W Side Analyst: Dave Cousino	Fiberboard	Black/Grey Fibrous Homogenous	95% Cellulose	5% Other	None Detected
643366 17A W Ext House Roof Analyst: Dave Cousino	Shingle	Red Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643367 17B N Ext House Roof Analyst: Dave Cousino	Shingle	Red Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643368 18A W Ext House Roof Analyst: Dave Cousino	Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643369 18B N Ext House Roof Analyst: Dave Cousino	Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643370 19A W Ext House Roof Analyst: Dave Cousino	Shingle	Brown 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

**ETC Job :** 199872  
**Client Project :** 33-01-01-30-453-141  
**Date Collected :** 12/22/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/27/2017

**Location :**  
 3210 Viking Rd, Lansing, MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643371 19B N Ext House Roof Analyst: Dave Cousino	Shingle	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643372 Assumed  Analyst: Dave Cousino		Not Analyzed			
643373 Assumed  Analyst: Dave Cousino		Not Analyzed			



Lab Supervisor/Other Signatory



Analyst: Dave Cousino

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 #: 199872

<b>Client:</b> ETC	<b>Contact:</b>	<b>Project Location/Name:</b> 3210 Viking Rd, Lansing MI
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Phone:</b> (734) 955-6600 <b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2etl.com	<b>Client Project #:</b>
<b>Please Provide Results:</b> <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		<b>Date Sampled:</b> 12/22/17

**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 EPA800/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
	01A-E		
	02A-C		
	03A-B		
	↓		
	19A-B		

	Date	Time
Relinquished (Name/Organization):	12/22/17	8:30 am/pm
Received (Name/ETL):	12/26/17	am/pm
Stereoscopy Analysis (Name/ETL):	12/26/17	2:10 am/pm
Sample Login (Name/ETL):	12.26.17	am/pm
Analysis (Name/ETL):	12/26/17	2:10 am/pm
QA/QC Review (Name/ETL):	12.27.17	am/pm

**Special Instructions:** please point count 2). or less

**Remarks:**

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #:	Building: 3210 Viking Rd, Lansing				Date: 12/22/17	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)		
	Material: Plaster		A	Rm 8 west wall 643	330		
		NF	B	Rm 12 west wall 331	Throughout 3, 3, 5, 6, 8 10, 12, 13	49 56	9
			C	Rm 13 east wall 332			
			D	Rm 2 south wall 333			
			E	Rm 2 center ceiling 334			
	Material: Skim coat		A	Rm 2 south wall 335	Rm 2 south wall	49 56	9
		NF	B	Rm 2 south wall 336			
			C	Rm 2 south wall 337			
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 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 #
199872	03	Material: Linoleum Description: Red	3210 Viking Rd	NF	A	North floor Rm 2	12/22/17	6433382	21 SF	8
	04	Material: Mastix Description: yellow		NF	B	North floor Rm 2			21 SF	8
	05	Material: Linoleum Description: white		NF	A	same as 03A		2	21 SF	8
	06	Material: paper backing Description: brown		NF	B	same as 03B		6	8 SF	12
	07	Material: 12x12 Tile Description: white		NF	A	Rm 6 east floor		6	10 SF	12
	08	Material: mastix Description: black		NF	B	Rm 6 north floor		6	10 SF	12
	09	Material: 12x12 Floor Tile Description: white		NF	A	Same as 05A		5,4	12 SF	11
	10	Material: Mastix Description: yellow		NF	B	Same as 05B		5,4	12 SF	11
	11	Material: 9x9 Floor Tile Description: brown		NF	A	Rm 4 center floor		7	6 SF	27
	12	Material: Underlayment Description: brown		NF	B	Rm 5 west floor		7	6 SF	27
					A	Same as 09A		3	54 SF	10
					B	Same as 09B		3	54 SF	10

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.		Material Description	Building: 3210 Viking Rd		Sample Letter	Sample Location	Date: 12/22/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
	Material no.	Description		Friable (F) / Non-Friable (NF)	Sample Letter						
13		Fiberboard Tan	NF	A	Rm 2 south wall 643358			10, 2, 8	1800	13	
14		Window Glaze white	NF	A	east window ext 360			3	1100	2	
15		House Wrap black	NF	A	west window ext 361			1st floor windows ext	1100	2	
16		Fiberboard black / grey	NF	A	ext house south side 362			ext	400	25	
17		Shingle Red	NF	A	ext house west side 363			ext house	400	25	
18		Shingle black	NF	A	same as 15A			ext house	400	25	
19		Shingle brown	NF	A	same as 15B			ext house	400	25	
20		Vermiculite tan	F	A	ext house roof 364			ext house	2300	1, 2, 4	
				B	North ext house roof 365			ext house	2300	1, 2, 4	
				A	same as 17A			ext house	2300	1, 2, 4	
				B	same as 17B			ext house	2300	1, 2, 4	
				A	same as 17C			ext house	2300	1, 2, 4	
				B	same as 17D			ext house	2300	1, 2, 4	
				A	ASSUMED			Attic, 2nd floor	400	5	
				B	ASSUMED			ext walls - outer walls	400	5	



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