

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-15-154-091
House No:	917 Jerome St, Lansing, MI 48912
Date Inspected:	12/21/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	2025 SF	Garage Square Footage	NA
Basement Square Footage	1188 SF	Garage Siding	NA
Siding	Wood	Garage Color	NA
Color	White	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



## Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-15-154-091  
House No. 917 Jerome St, Lansing, MI 48912  
Date Inspected: 12/21/2017

**TABLE 1**

### HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Hot Water Tank	1	Room 10
Refrigerators	1	Room 6
TV Screens/Electronics	4	Room 2, 17
Fire Extinguishers	2	Room 10
Misc. Items (solvents, cleaners)	10	Room 10
Paint Cans	1 (1 gallon)	Room 7
Smoke Detectors	1	Room 16
Thermostats	1	Room 3

### 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:	33-01-01-15-154-091
House No.	917 Jerome St, Lansing, MI 48912
Date Inspected:	12/21/2017

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

<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
<b>1</b>	<b>F</b>	<b>Duct wrap, grey</b>	<b>Throughout</b>	<b>30 SF</b>	<b>YES</b>
<b>2</b>	<b>NF</b>	<b>Plaster, grey</b>	<b>Throughout</b>	<b>4000 SF</b>	<b>YES</b>
3	NF	Basement wall concrete, grey	Room 10, 12	500 SF	No
4	NF	Basement floor concrete, grey	Room 10, 11, 12	400 SF	No
<b>5</b>	<b>NF</b>	<b>Window glaze, white</b>	<b>Exterior</b>	<b>29 windows</b>	<b>YES</b>
6	F	House wrap, brown	Exterior	5000 SF	No
7	NF	Asphalt shingle, black/black stones	Exterior	2500 SF	No
8	NF	Asphalt shingle, black/grey stones	Exterior	2500 SF	No
9	F	Blown-in-insulation, brown/grey	Throughout	3000 SF	No
10	NF	Linoleum, wood grain/white	Room 3	150 SF	No
11	NF	12x12 Tile, wood grain	Room 18	150 SF	No
12	NF	Mastic, black	Room 3	150 SF	No
13	NF	12x12 Self stick, tan	Room 3	150 SF	No
14	NF	12x12 Self stick, grey/brown	Room 2	50 SF	No
15	NF	12x12 Self stick, brown/grey	Room 5, 6, 7	300 SF	No
16	NF	12x12 Self stick, brown/wood	Room 15, 18	180 SF	No
17	NF	12x12 Self stick, tan/brown	Room 17	150 SF	No
18	NF	12x12 Self stick, tan/brown	Room 19	15 SF	No
19	NF	Linoleum, tan/wood grain	Room 15	40 SF	No
20	NF	Mastic, yellow	Room 15	40 SF	No
21	F	Drywall, white	Room 3, 18	200 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.

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<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
22	F	House wrap, black	Exterior	90 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.

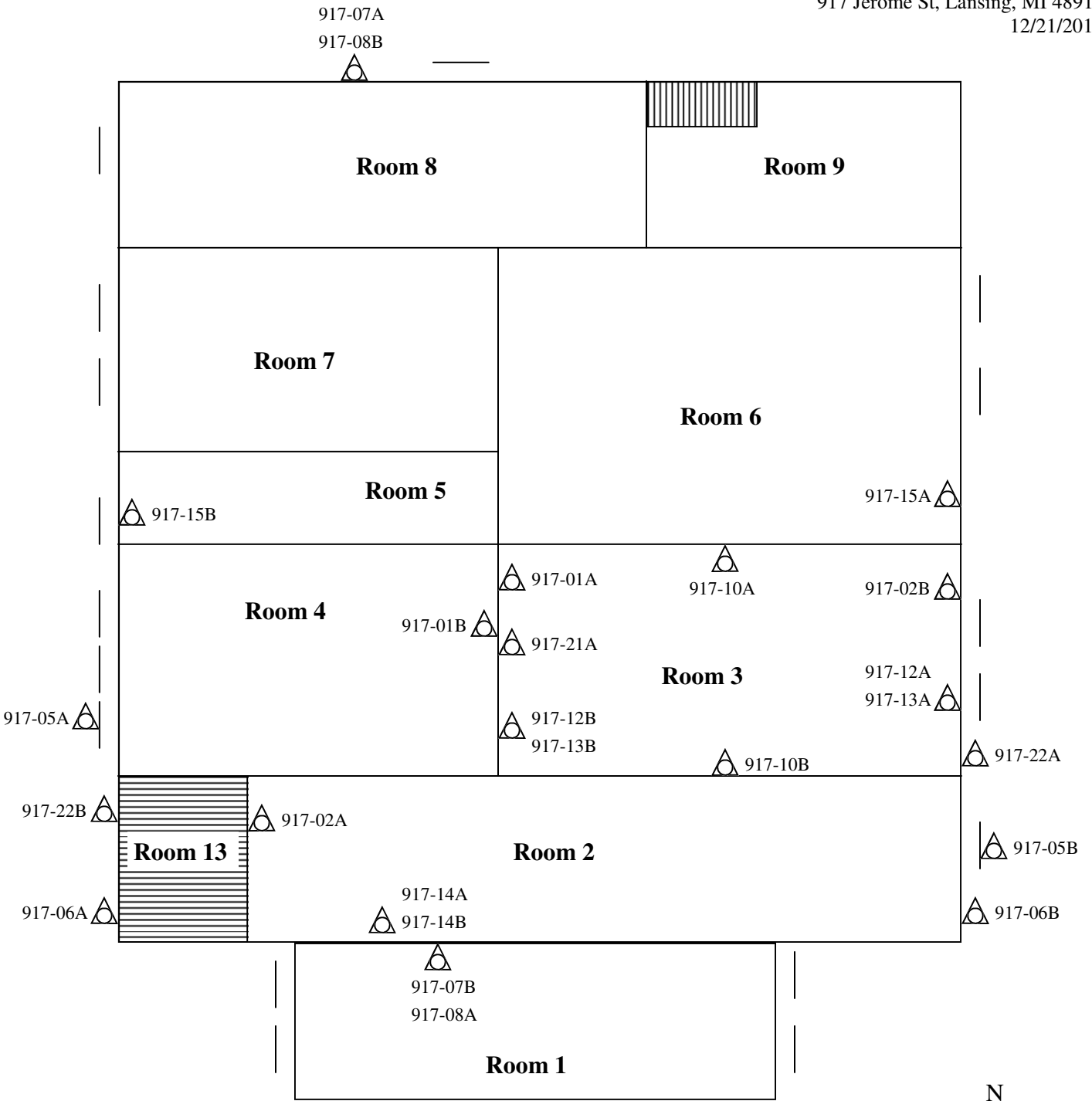



Attachment:

Site Drawing

**1st floor**

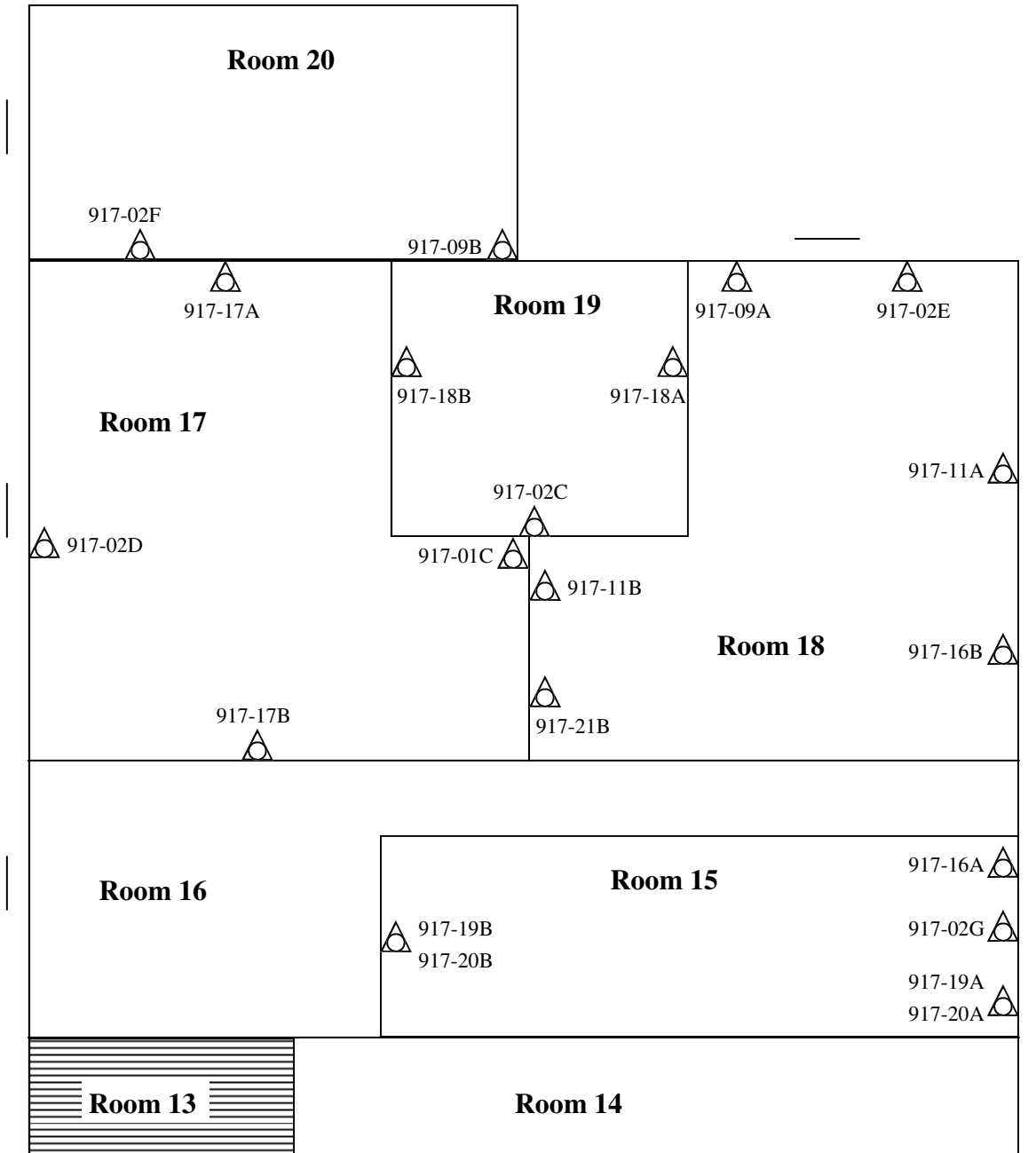
33-01-01-15-154-091  
917 Jerome St, Lansing, MI 48912  
12/21/2017




 Sample Location

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

Ingham County Land Bank  
199845

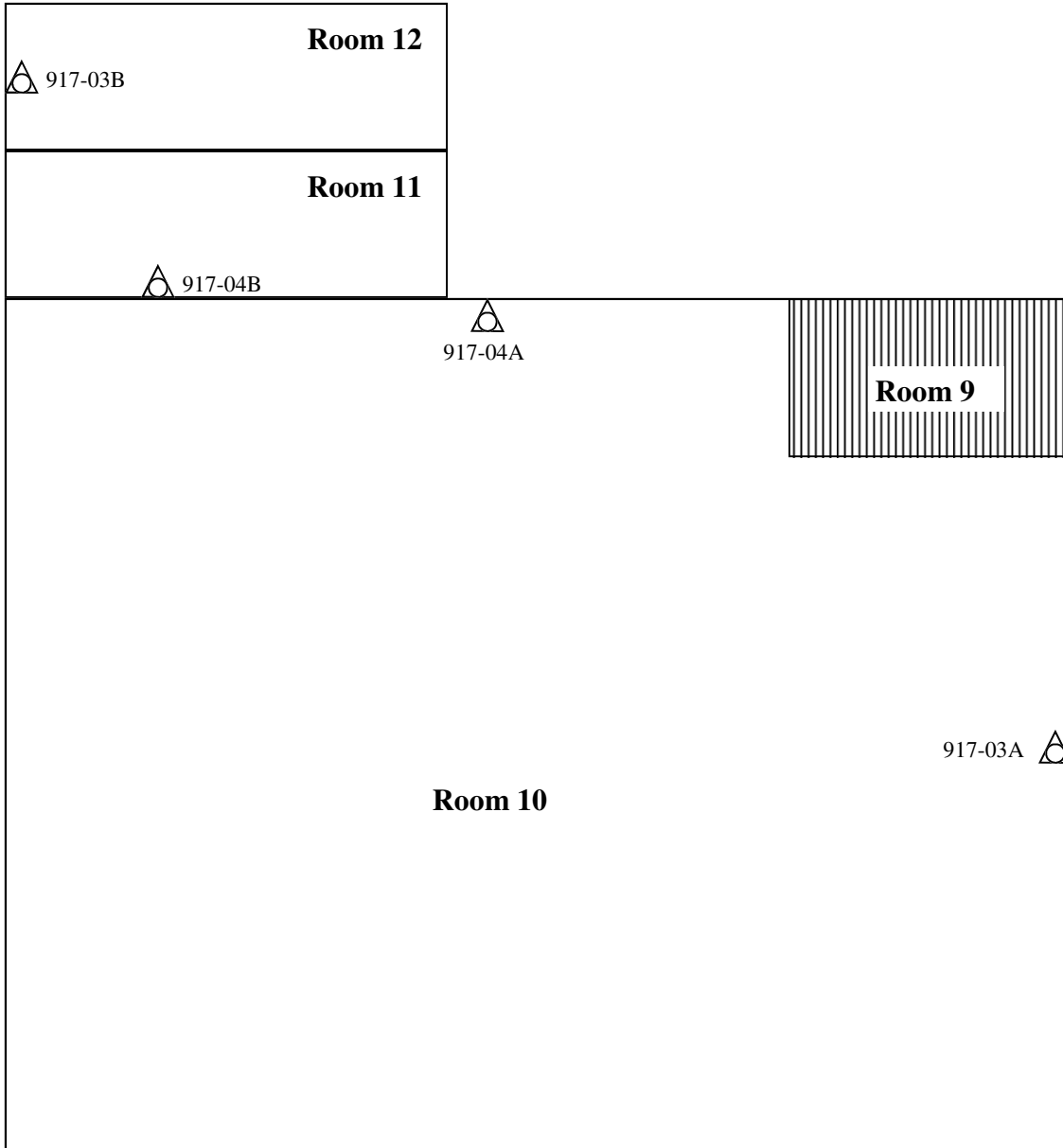


 Sample Location

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**

33-01-01-15-154-091  
917 Jerome St, Lansing, MI 48912  
12/21/2017



 Sample Location

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

Ingham County Land Bank  
199845

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-15-154-091  
House No. 917 Jerome St, Lansing, MI 48912  
Date Inspected: 12/21/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property



## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-15-154-091  
House No. 917 Jerome St, Lansing, MI 48912  
Date Inspected: 12/21/2017



Hot Water Tank



Refrigerators



TV Screens/Electronics



Fire Extinguishers



## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-15-154-091  
House No. 917 Jerome St, Lansing, MI 48912  
Date Inspected: 12/21/2017



Misc. Items (solvents, cleaners)



Paint Cans



Smoke Detectors



Thermostats



## Representative Pictures of Asbestos Containing Materials

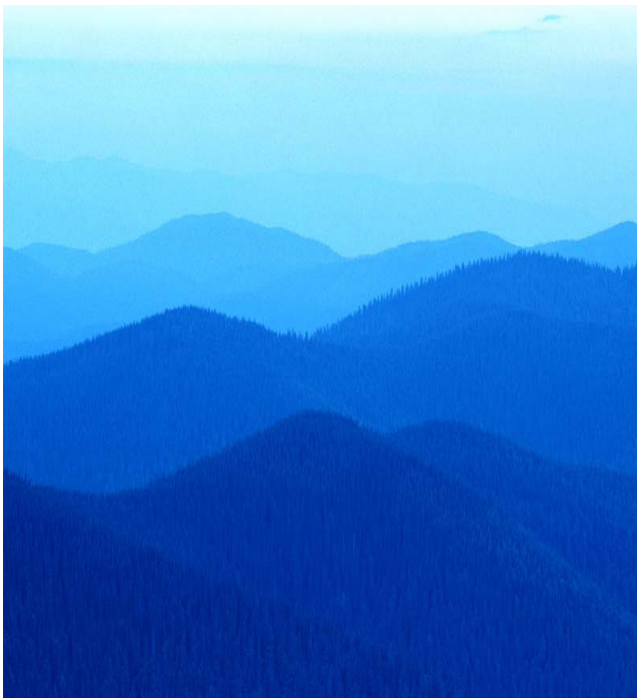
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Date Inspected: 12/21/2017



Duct Wrap, grey



Plaster, grey



Window Glaze, white

Attachment:

Laboratory Analytical Results

# ENVIRONMENTAL TESTING LABORATORIES, INC.



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

## REVISED REPORT

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

Project Location :  
917 Jerome St, Lansing, MI

**Attention :**

Client Project : 33-01-01-15-154-091

ETC Job : 199845

Report Date : 12/26/2017

Login #	Sample ID	Work Requested	Completed
642613	01A	Asbestos Analysis	12/26/2017
642614	01B	Asbestos Analysis	12/26/2017
642615	01C	Asbestos Analysis	12/26/2017
642616	02A	Asbestos Analysis	12/26/2017
642617	02B	Asbestos Analysis	12/26/2017
642618	02C	Asbestos Analysis	12/26/2017
642619	02D	Asbestos Analysis	12/26/2017
642620	02E	Asbestos Analysis	12/26/2017
642621	02F	Asbestos Analysis	12/26/2017
642622	02G	Asbestos Analysis	12/26/2017
642623	03A	Asbestos Analysis	12/26/2017
642624	03B	Asbestos Analysis	12/26/2017
642625	04A	Asbestos Analysis	12/26/2017
642626	04B	Asbestos Analysis	12/26/2017
642627	05A	Asbestos Analysis	12/26/2017
642628	05B	Asbestos Analysis	12/26/2017
642629	06A	Asbestos Analysis	12/26/2017
642630	06B	Asbestos Analysis	12/26/2017
642631	07A	Asbestos Analysis	12/26/2017
642632	07B	Asbestos Analysis	12/26/2017

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<b>Login #</b>	<b>Sample ID</b>	<b>Work Requested</b>	<b>Completed</b>
642633	08A	Asbestos Analysis	12/26/2017
642634	08B	Asbestos Analysis	12/26/2017
642635	09A	Asbestos Analysis	12/26/2017
642636	09B	Asbestos Analysis	12/26/2017
642637	10A	Asbestos Analysis	12/26/2017
642638	10B	Asbestos Analysis	12/26/2017
642639	11A	Asbestos Analysis	12/26/2017
642640	11B	Asbestos Analysis	12/26/2017
642641	12A	Asbestos Analysis	12/26/2017
642642	12B	Asbestos Analysis	12/26/2017
642643	13A	Asbestos Analysis	12/26/2017
642644	13B	Asbestos Analysis	12/26/2017
642645	14A	Asbestos Analysis	12/26/2017
642646	14B	Asbestos Analysis	12/26/2017
642647	15A	Asbestos Analysis	12/26/2017
642648	15B	Asbestos Analysis	12/26/2017
642649	16A	Asbestos Analysis	12/26/2017
642650	16B	Asbestos Analysis	12/26/2017
642651	17A	Asbestos Analysis	12/26/2017
642652	17B	Asbestos Analysis	12/26/2017
642653	18A	Asbestos Analysis	12/26/2017
642654	18B	Asbestos Analysis	12/26/2017
642655	19A	Asbestos Analysis	12/26/2017
642656	19B	Asbestos Analysis	12/26/2017
642657	20A	Asbestos Analysis	12/26/2017
642658	20B	Asbestos Analysis	12/26/2017
642659	21A	Asbestos Analysis	12/26/2017

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Login #	Sample ID	Work Requested	Completed
642660	21B	Asbestos Analysis	12/26/2017
642661	22A	Asbestos Analysis	12/26/2017
642662	22B	Asbestos Analysis	12/26/2017

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Reviewed by:



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Quality Assurance Coordinator



# 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 :  
917 Jerome St, Lansing, MI

ETC Job : 199845  
Client Project : 33-01-01-15-154-091  
Date Collected : 12/21/2017  
Date Received : 12/22/2017  
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642613 01A 3 Floor Vent Analyst: Renee Renauer	Duct Wrap	Grey Fibrous Homogenous	15% Cellulose	25% Other	60% Chrysotile
642614 01B 4 Floor Vent Analyst: Renee Renauer		Not Analyzed			
642615 01C 17 Floor Vent Analyst: Renee Renauer		Not Analyzed			
642616 02A 2 W Layer-1 Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642616 02A 2 W Layer-2 Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
642617 02B 3 E Layer-1 Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	1.75% Cellulose	97.5% Other	PC 0.75% Chrysotile
642617 02B 3 E Layer-2 Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642618 02C 19 S Layer-1 Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642618 02C 19 S Layer-2 Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
642619 02D 17 W Analyst: Renee Renauer  02D, 02F, 02G No skim	Plaster	Grey Non-Fibrous Homogenous	0.25% Cellulose	98.5% Other	PC 1.25% Chrysotile
642620 02E 18 N Ceiling Layer-1 Analyst: Renee Renauer		Not Analyzed			
642620 02E 18 N Ceiling Layer-2 Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
642620 02E 18 N Ceiling Layer-3 Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642621 02F 20 S Analyst: Renee Renauer		Not Analyzed			
642622 02G 15 E Analyst: Renee Renauer		Not Analyzed			

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**Date Analyzed :** 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642623 03A 10 E Analyst: Renee Renauer	Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642624 03B 12 W Wall Analyst: Renee Renauer	Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642625 04A 10 N Floor Analyst: Renee Renauer	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642626 04B 11 S Floor Analyst: Renee Renauer	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642627 05A Ext W Window Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous		97% Other	3% Chrysotile
642628 05B Ext E Window Analyst: Renee Renauer		Not Analyzed			
642629 06A Ext W House Analyst: Renee Renauer	House Wrap	Brown Fibrous Homogenous	100% Cellulose		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 :**  
 917 Jerome St, Lansing, MI

**ETC Job :** 199845  
**Client Project :** 33-01-01-15-154-091  
**Date Collected :** 12/21/2017  
**Date Received :** 12/22/2017  
**Date Analyzed :** 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642630 06B Ext E House Analyst: Renee Renauer	House Wrap	Brown Fibrous Homogenous	100% Cellulose		None Detected
642631 07A Ext N Roof Analyst: Renee Renauer	Shingle	Black Non-Fibrous Homogenous	5% Fiberglass	95% Other	None Detected
642632 07B Ext S Roof Analyst: Renee Renauer	Shingle	Black Non-Fibrous Homogenous	5% Fiberglass	95% Other	None Detected
642633 08A Ext N Roof Analyst: Renee Renauer	Shingle	Grey Non-Fibrous Homogenous	7% Fiberglass	93% Other	None Detected
642634 08B Ext S Roof Analyst: Renee Renauer	Shingle	Grey Non-Fibrous Homogenous	7% Fiberglass	93% Other	None Detected
642635 09A 18 E Walls Analyst: Renee Renauer	Blown-in Insulation	Brown Fibrous Homogenous	100% Cellulose		None Detected
642636 09B 20 W Walls Analyst: Renee Renauer	Blown-in Insulation	Brown Fibrous Homogenous	100% Cellulose		None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
 Romulus, MI 48174

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 917 Jerome St, Lansing, MI

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**Date Received :** 12/22/2017  
**Date Analyzed :** 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642637 10A 3 N Floor Analyst: Renee Renauer	Linoleum	Wood Grain Non-Fibrous Homogenous		100% Other	None Detected
642638 10B 3 S Floor Analyst: Renee Renauer	Linoleum	Wood Grain Non-Fibrous Homogenous		100% Other	None Detected
642639 11A 18 E Floor Analyst: Renee Renauer	12x12 Tile	Wood Grain Non-Fibrous Homogenous		100% Other	None Detected
642640 11B 18 W Floor Analyst: Renee Renauer	12x12 Tile	Wood Grain Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642641 12A 3 E Floor Analyst: Renee Renauer	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
642642 12B 3 W Floor Analyst: Renee Renauer	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
642643 13A E 3 Floor Analyst: Renee Renauer	12x12 Tile	Tan Non-Fibrous Homogenous		100% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642644 13B W 3 Floor Analyst: Renee Renauer	12x12 Tile	Tan Non-Fibrous Homogenous		100% Other	None Detected
642645 14A 2 S Wall Analyst: Renee Renauer	12x12 Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642646 14B 2 S Wall Analyst: Renee Renauer	12x12 Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642647 15A 6 E Floor Analyst: Renee Renauer	12x12 Tile	Brown Non-Fibrous Homogenous		100% Other	None Detected
642648 15B 5 W Floor Analyst: Renee Renauer	12x12 Tile	Brown Non-Fibrous Homogenous		100% Other	None Detected
642649 16A 15 E Floor Analyst: Renee Renauer	12x12 Tile	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642650 16B 18 E Floor Analyst: Renee Renauer	12x12 Tile	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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**Date Analyzed :** 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642651 17A 17 N Floor Analyst: Renee Renauer	12x12 Tile	Tan Non-Fibrous Homogenous		100% Other	None Detected
642652 17B 17 S Floor Analyst: Renee Renauer	12x12 Tile	Tan Non-Fibrous Homogenous		100% Other	None Detected
642653 18A 19 E Floor Analyst: Renee Renauer	12x12 Tile	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642654 18B 19 W Floor Analyst: Renee Renauer	12x12 Tile	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642655 19A 15 E Floor Analyst: Renee Renauer	Linoleum	Tan Non-Fibrous Homogenous		100% Other	None Detected
642656 19B 15 W Floor Analyst: Renee Renauer	Linoleum	Tan Non-Fibrous Homogenous		100% Other	None Detected
642657 20A 15 E Floor Analyst: Renee Renauer	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

**ETC Job :** 199845  
**Client Project :** 33-01-01-15-154-091  
**Date Collected :** 12/21/2017  
**Date Received :** 12/22/2017  
**Date Analyzed :** 12/26/2017

**Location :**  
 917 Jerome St, Lansing, MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642658 20B 15 W Floor Analyst: Renee Renauer	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642659 21A 3 W Wall Analyst: Renee Renauer	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642660 21B 18 W Wall Analyst: Renee Renauer	Drywall	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642661 22A 16 E Wall Analyst: Renee Renauer	House Wrap	Black Fibrous Homogenous	100% Cellulose		None Detected
642662 22B 16 W Wall Analyst: Renee Renauer	House Wrap	Black Fibrous Homogenous	100% Cellulose		None Detected



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

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.2etl.com

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: **199845**

<b>Client:</b> ETC	<b>Contact:</b> <i>LIV Hagerman</i>	<b>Project Location/Name:</b> <i>917 JEROME LANSING, MI</i>
<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> <i>199845</i>
<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> <i>12-21-17</i>

**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
	<i>01 ABC</i>		
	<i>02 A-G</i>		
	<i>03 A, B</i>		
		<i>See attached pages</i>	
	<i>22 AB</i>		

	Date	Time
Relinquished (Name/Organization): <i>ETC GROUP</i>	<i>12-21-17</i>	<i>3</i> am/pm
Received (Name/ETL): <i>Brittany Walls</i>	<i>12/22/17</i>	am/pm
Stereoscopical Analysis (Name/ETL): <i><del>APHEE</del> <del>AK</del></i>	<i>12-22-17</i>	am/pm
Sample Login (Name/ETL): <i>Brittany Walls</i>	<i>12/22/17</i>	am/pm
Analysis (Name/ETL): <i><del>APHEE</del> <del>AK</del></i>	<i>12-22-17</i>	am/pm
QA/QC Review (Name/ETL): <i>Borena Segate</i>	<i>12.26.17</i>	am/pm

**Special Instructions:** *Please Point Count Samples 2% or less*

**Remarks:**



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

Revision date 5/7/2015

Job #:	199845		Building:				Date:	12/2/10	
	Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
01	Material: Duct WRAP Description: Grey	4	A	3 Floor vent 612613	throughout	40 LF			
	Material: Description		B	4 Floor vent 614					
	Material: Description		C	17 Floor vent 615					
	Material: Description								
	Material: Description								
	Material: Description								
	Material: Description								
	Material: Description								
	Material: Description								
	Material: Description								

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

2 8/5

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

<b>Job #:</b> 1998 H6	<b>Building:</b> 917 Jerome		<b>Date:</b> 12/21/17				
<b>Material no.</b>	<b>Material Description</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Sample Letter</b>	<b>Sample Location</b>	<b>Material Located throughout bldg (Please List all Rooms)</b>	<b>Quantity</b>	<b>Picture #</b>
	Material: Plaster	N	A	2 W	6016, 6016	throughout	4000 SF
02	Material: Gsey		B	3 E	6017		
			C	19 S	6018		
			D	17 W	6019		
			E	18 N Ceiling	6020		
			F	20 S	6021		
			G	15 E	6022		
	Material:						
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

3 of 5



# Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building: 917 Jerome		Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
			Friable (F) / Non-Friable (NF)	Sample Letter				
03		Basement wall concrete	N	A	10 E Wall 60426033	10/12	500 SF	
		Grey		B	10/12 W Wall 6034			
04		Basement Floor concrete	N	A	10 N floor 6035	10/12/12	400 SF	
		Grey		B	10 S floor 6036			
05		Window Glaze	N	A	ext W window 6027	ext Windows 29 units	29	
		White		B	ext E windows 6028			
06		House wrap	Y	A	ext W House 6029	ext House	5000 SF	
		Brown		B	ext E House 6030			
07		Asphalt shingle	N	A	ext N Roof 6031	ext Roof	2500 SF	
		Black + Black stones		B	ext S Roof 6032			
08		Asphalt shingles	N	A	ext N Roof 6033	ext Roof	2500 SF	
		Black + Grey stones		B	ext S Roof 6034			
09		Blown in	Y	A	18 E Walls 6035	throughout	3000 SF	
		Brown/Grey		B	18 W Walls 6036			
10		lindeum	N	A	3 N floor 6037	3	150 SF	
		Wood Grain/white		B	3 S floor 6038			
11		12x12 tile	N	A	18 E floor 6039	18	150 SF	
		wood grain		B	18 W floor 6040			
12		mastic	N	A	3 E floor 6041	3	150 SF	
		Black		B	3 W floor 6042			

4 of 5



# Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	199 845		Building:	917 Jerome		Date:	12/21/10	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
13	Material: 12 x 12 self stick Description: tan	N	A	E 3 floor	642643	3		
	Material: 12 x 12 self stick Description: Gray, Brown	N	B	W 3 floor	644	150 SF		
14	Material: 12 x 12 self stick Description: Brown / Gray	N	A	12 S floor	645			
	Material: 12 x 12 self stick Description: Brown / Gray	N	B	12 S floor	646	2		
15	Material: 12 x 12 self stick Description: Tan / Brown	N	A	6 E floor	647			
	Material: 12 x 12 self stick Description: Tan / Brown	N	B	5 W floor	648	6/7/5		
16	Material: 12 x 12 self stick Description: Tan / Brown	N	A	15 E floor	649			
	Material: 12 x 12 self stick Description: Tan / Brown	N	B	18 E floor	650	15/18		
17	Material: 12 x 12 self stick Description: Tan / Brown	N	A	17 N floor	651			
	Material: 12 x 12 self stick Description: Tan / Brown	N	B	17 S floor	652	17		
18	Material: 12 x 12 self stick Description: Tan / Brown	N	A	19 E floor	653			
	Material: 12 x 12 self stick Description: Tan / Brown	N	B	19 W floor	654	19		
19	Material: 12 x 12 self stick Description: Tan / Brown	N	A	15 E floor	655			
	Material: 12 x 12 self stick Description: Tan / Brown	N	B	15 W floor	656	15		
20	Material: 12 x 12 self stick Description: Tan / Brown	N	A	15 E floor	657			
	Material: 12 x 12 self stick Description: Tan / Brown	N	B	15 W floor	658	15		
21	Material: 12 x 12 self stick Description: Tan / Brown	Y	A	3 W wall	659			
	Material: 12 x 12 self stick Description: Tan / Brown	Y	B	18 W wall	660	3/18		
22	Material: 12 x 12 self stick Description: Tan / Brown	Y	A	14 R ceiling	661			
	Material: 12 x 12 self stick Description: Tan / Brown	Y	B	16 W ceiling	662	16		

5 of 5

2 samples

Attachment:

Inspection Procedures

# **Pre-Demolition Environmental Inspection Procedures**

## **HAZARDOUS MATERIALS INSPECTION**

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

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

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

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

## **ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION**

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

### **Asbestos Inspection**

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

### **Sample Collection**

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

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

## **Pre-Demolition Environmental Inspection Procedures**

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

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

### **Laboratory Analysis / Results**

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

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

### **SIGNATURE**

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

Prepared by: Wade Wiltse

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-15-305-131
House No:	230 S Eighth St, Lansing MI 48912
Date Inspected:	12/21/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	Attached
Square Footage	2376 SF	Garage Square Footage	720 SF
Basement Square Footage	968 SF	Garage Siding	Vinyl/brick
Siding	Vinyl/asphalt/brick	Garage Color	White/tan
Color	White/grey/tan	Garage Shingles	Asphalt
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



## Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-15-305-131  
House No. 230 S Eighth St, Lansing MI 48912  
Date Inspected: 12/21/2017

**TABLE 1**

### HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Hot Water Tank	1	Room 2
Thermostats	2	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: 33-01-01-15-305-131  
 House No. 230 S Eighth St, Lansing MI 48912  
 Date Inspected: 12/21/2017

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

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Duct wrap, grey	Room 2-4, 7-9, 17	30 SF	YES
2	NF	Plaster, grey	Throughout	5728 SF	YES
3	NF	Wall skim coat/concrete, white	Room 17-19	1386 SF	No
4	NF	Concrete, grey	Room 17-19	1386 SF	No
5	NF	Poured concrete, grey	Room 17-19	1386 SF	No
6	F	Ceiling tile, white	Room 2, 3	720 SF	No
7	F	Ceiling tile, tan	Room 2-4	720 SF	No
8	F	Blown-in-insulation, grey	Room 6-10	2226 SF	No
9	NF	Linoleum, blue/red/green	Room 9	150 SF	No
10	NF	Linoleum, brown	Room 6	276 SF	No
11	NF	Linoleum, tan	Room 10	432 SF	No
12	NF	Backing, black	Room 10	432 SF	No
13	NF	12x12 Peel and stick, granite pattern	Room 1, 12	1044 SF	No
14	NF	Linoleum, tan/grey/with fiber	Room 1, 12	1044 SF	No
15	NF	Fiber under lament, brown	Room 1, 12	1044 SF	No
16	NF	<b>Linoleum, tan/gold</b>	<b>Room 1, 12</b>	<b>1044 SF</b>	<b>YES</b>
17	NF	<b>Mastic, tan</b>	<b>Room 1, 12</b>	<b>1044 SF</b>	<b>YES</b>
18	NF	Asphalt shingle, black/grey	Exterior (house)	792 SF	No
19	NF	Shingle under lament, black	Exterior (house)	792 SF	No
20	NF	House wrap, black	Exterior (house)	1824 SF	No
21	NF	Asphalt and fiber, grey stone	Exterior (house)	1824 SF	No

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



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-15-305-131  
 House No. 230 S Eighth St, Lansing MI 48912  
 Date Inspected: 12/21/2017

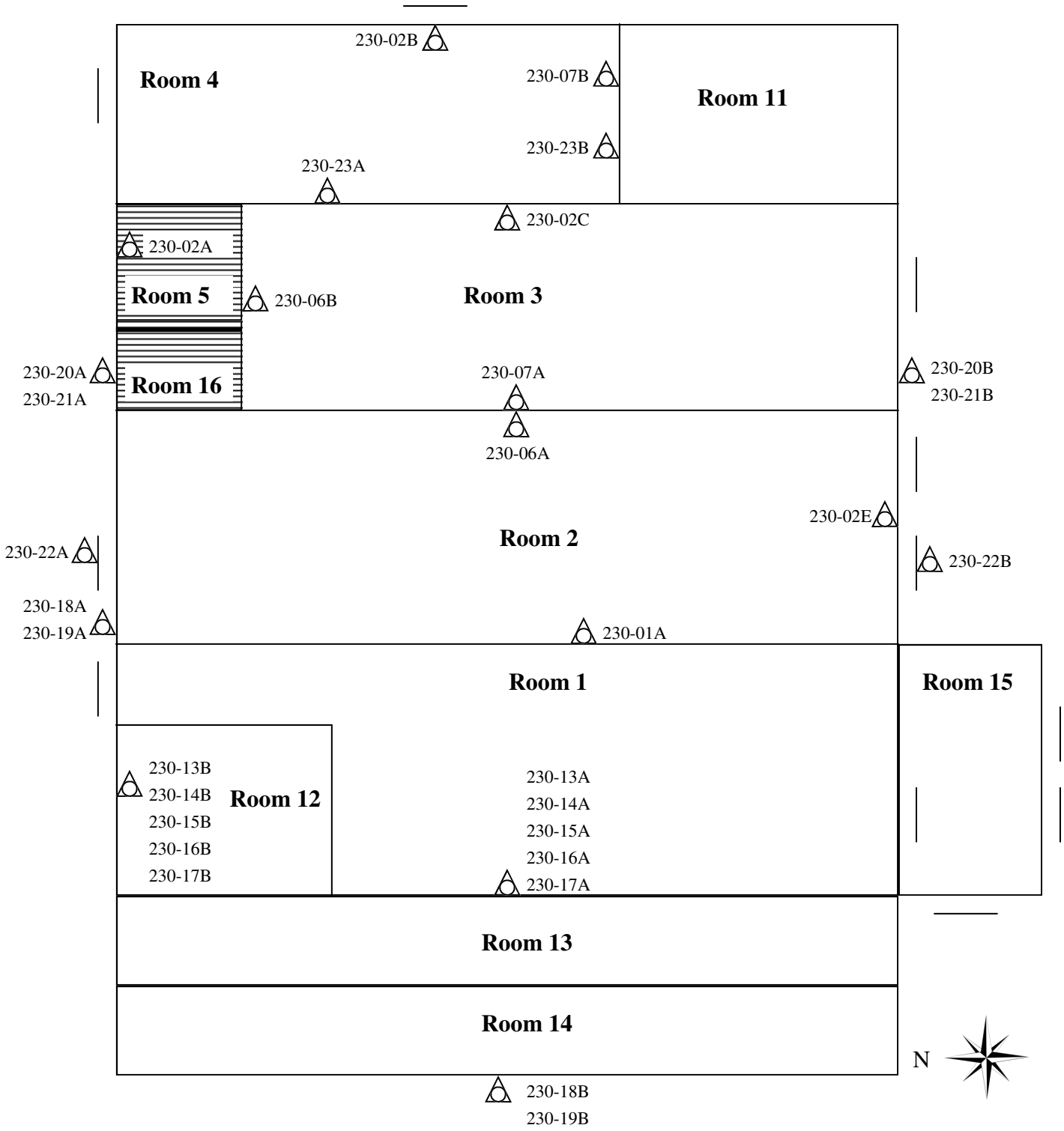
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**


<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
22	NF	Window glaze, white	Exterior	17 windows	No
23	F	Ceiling tile, white	Room 8	220 SF	No
24	NF	Linoleum, black/green/multi	Room 16	25 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.

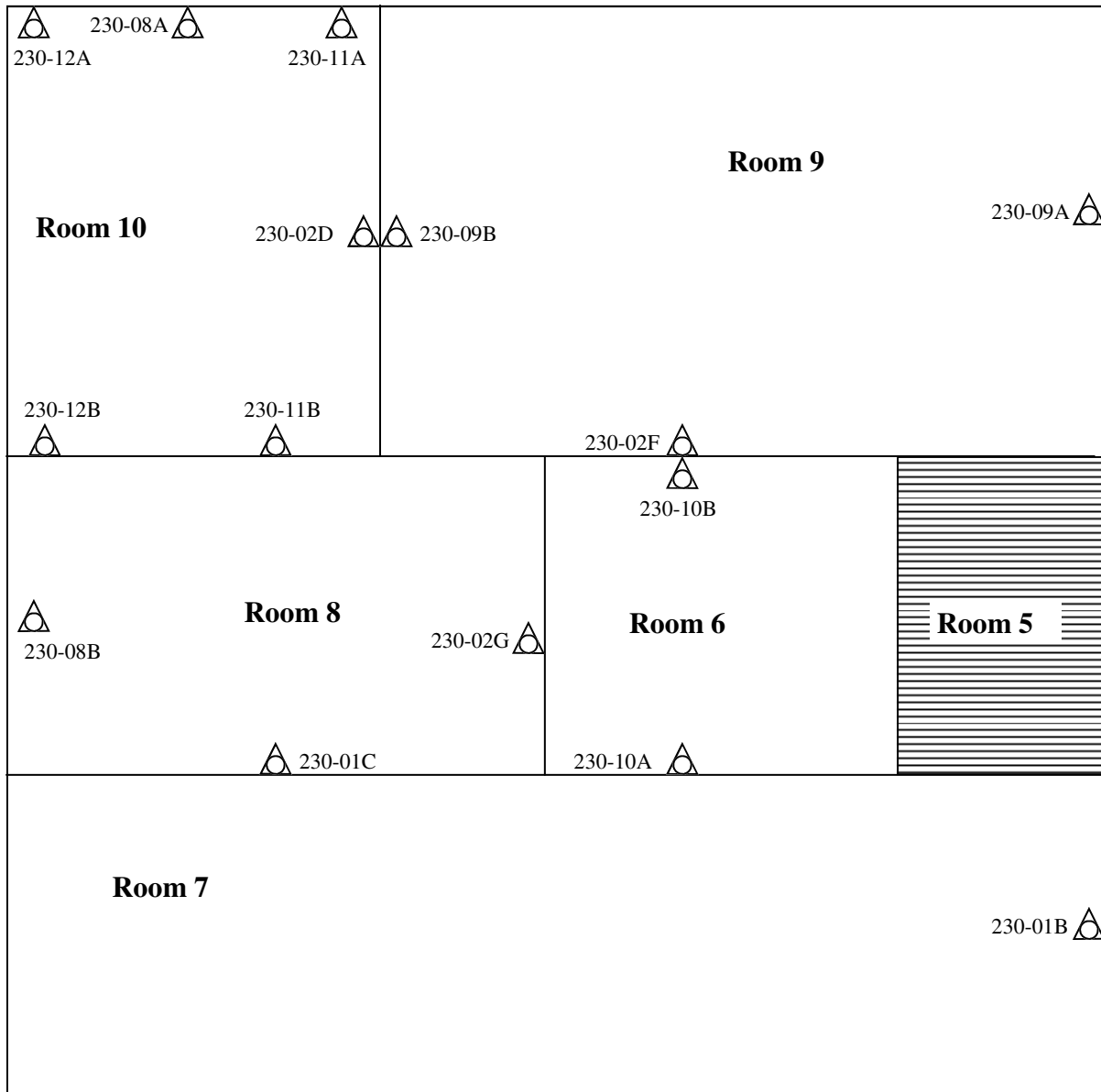
Attachment:


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.

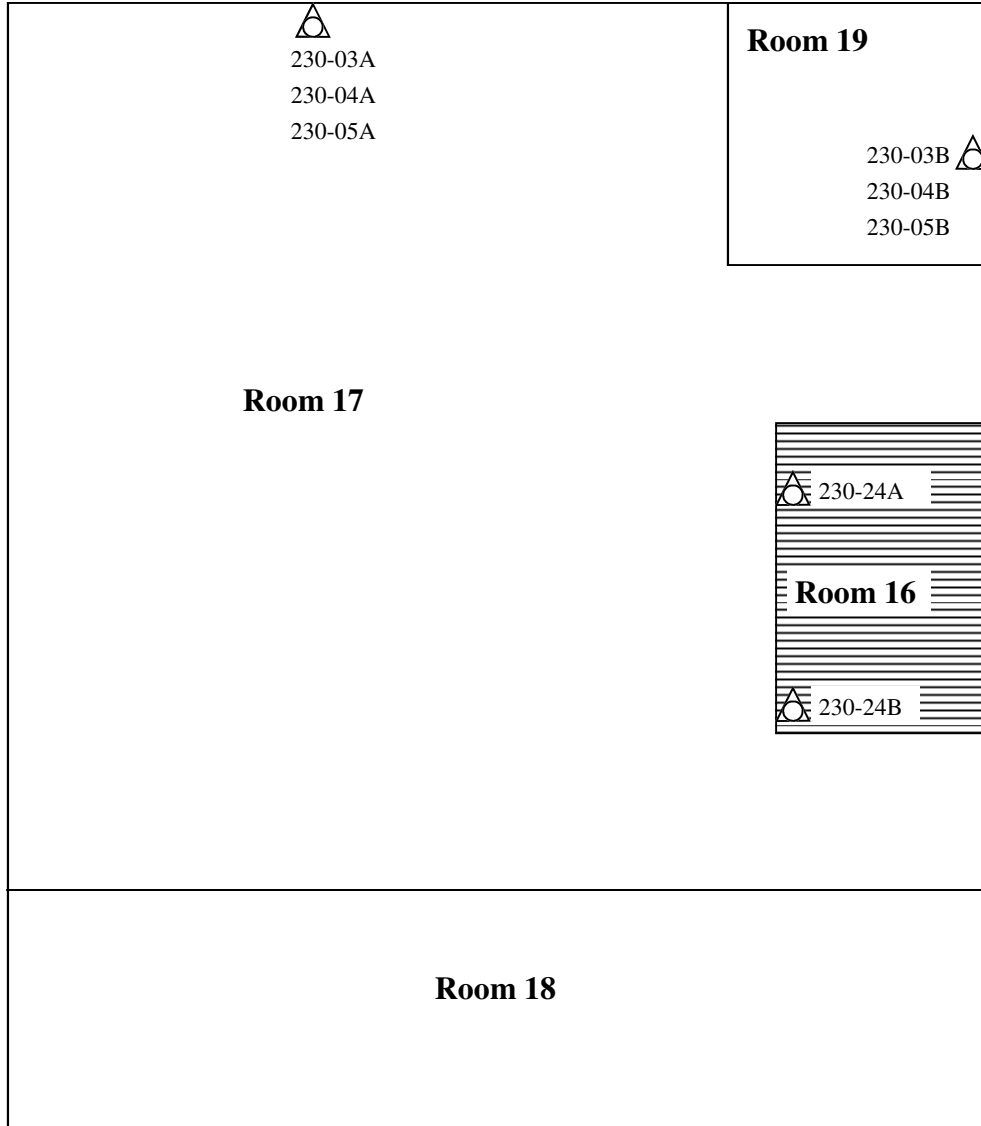


 Sample Location

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**

33-01-01-15-305-131  
230 S Eighth St, Lansing MI 48912  
12/21/2017



 Sample Location

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

Ingham County Land Bank  
199847

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-15-305-131  
House No. 230 S Eighth St, Lansing MI 48912  
Date Inspected: 12/21/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-15-305-131
House No.	230 S Eighth St, Lansing MI 48912
Date Inspected:	12/21/2017



Garage



## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-15-305-131  
House No. 230 S Eighth St, Lansing MI 48912  
Date Inspected: 12/21/2017



Hot Water Tank



Thermostats

## Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-15-305-131  
House No. 230 S Eighth St, Lansing MI 48912  
Date Inspected: 12/21/2017



Duct Wrap



Plaster



Linoleum, white; Mastic, brown

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 :  
230 S Eighth St, Lansing, MI

**Attention :**

Client Project : 33-01-01-15-305-131

ETC Job : 199847

Report Date : 12/28/2017

Login #	Sample ID	Work Requested	Completed
643276	01A	Asbestos Analysis	12/28/2017
643277	01B	Asbestos Analysis	12/28/2017
643278	01C	Asbestos Analysis	12/28/2017
643279	23A	Asbestos Analysis	12/28/2017
643280	23B	Asbestos Analysis	12/28/2017
643281	24A	Asbestos Analysis	12/28/2017
643282	24B	Asbestos Analysis	12/28/2017
643283	02A	Asbestos Analysis	12/28/2017
643284	02B	Asbestos Analysis	12/28/2017
643285	02C	Asbestos Analysis	12/28/2017
643286	02D	Asbestos Analysis	12/28/2017
643287	02E	Asbestos Analysis	12/28/2017
643288	02F	Asbestos Analysis	12/28/2017
643289	02G	Asbestos Analysis	12/28/2017
643290	03A	Asbestos Analysis	12/28/2017
643291	03B	Asbestos Analysis	12/28/2017
643292	04A	Asbestos Analysis	12/28/2017
643293	04B	Asbestos Analysis	12/28/2017
643294	05A	Asbestos Analysis	12/28/2017
643295	05B	Asbestos Analysis	12/28/2017

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

---

<b>Login #</b>	<b>Sample ID</b>	<b>Work Requested</b>	<b>Completed</b>
643296	06A	Asbestos Analysis	12/28/2017
643297	06B	Asbestos Analysis	12/28/2017
643298	07A	Asbestos Analysis	12/28/2017
643299	07B	Asbestos Analysis	12/28/2017
643300	08A	Asbestos Analysis	12/28/2017
643301	08B	Asbestos Analysis	12/28/2017
643302	09A	Asbestos Analysis	12/28/2017
643303	09B	Asbestos Analysis	12/28/2017
643304	10A	Asbestos Analysis	12/28/2017
643305	10B	Asbestos Analysis	12/28/2017
643306	11A	Asbestos Analysis	12/28/2017
643307	11B	Asbestos Analysis	12/28/2017
643308	12A	Asbestos Analysis	12/28/2017
643309	12B	Asbestos Analysis	12/28/2017
643310	13A	Asbestos Analysis	12/28/2017
643311	13B	Asbestos Analysis	12/28/2017
643312	14A	Asbestos Analysis	12/28/2017
643313	14B	Asbestos Analysis	12/28/2017
643314	15A	Asbestos Analysis	12/28/2017
643315	15B	Asbestos Analysis	12/28/2017
643316	16A	Asbestos Analysis	12/28/2017
643317	16B	Asbestos Analysis	12/28/2017
643318	17A	Asbestos Analysis	12/28/2017
643319	17B	Asbestos Analysis	12/28/2017
643320	18A	Asbestos Analysis	12/28/2017
643321	18B	Asbestos Analysis	12/28/2017
643322	19A	Asbestos Analysis	12/28/2017

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Login #	Sample ID	Work Requested	Completed
643323	19B	Asbestos Analysis	12/28/2017
643324	20A	Asbestos Analysis	12/28/2017
643325	20B	Asbestos Analysis	12/28/2017
643326	21A	Asbestos Analysis	12/28/2017
643327	21B	Asbestos Analysis	12/28/2017
643328	22A	Asbestos Analysis	12/28/2017
643329	22B	Asbestos Analysis	12/28/2017

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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 :**  
230 S Eighth St, Lansing, MI

**ETC Job :** 199847  
**Client Project :** 33-01-01-15-305-131  
**Date Collected :** 12/21/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643276 01A 2 W Floor Analyst: Daniel Agnew	Duct Wrap	Grey Fibrous Homogenous	30% Cellulose	5% Other	65% Chrysotile
643277 01B 7 S Floor Analyst: Daniel Agnew		Not Analyzed			
643278 01C 8 W Floor Analyst: Daniel Agnew		Not Analyzed			
643279 23A 4 W Ceiling Analyst: Daniel Agnew	Ceiling Tile	White Fibrous Homogenous	65% Cellulose 10% Fiberglass	25% Other	None Detected
643280 23B 4 S Ceiling Analyst: Daniel Agnew	Ceiling Tile	White Fibrous Homogenous	60% Cellulose 10% Fiberglass	30% Other	None Detected
643281 24A 16 E Floor Analyst: Daniel Agnew	Linoleum	Black Fibrous Homogenous	60% Cellulose	40% Other	None Detected
643282 24B 16 W Floor Analyst: Daniel Agnew	Linoleum	Black Fibrous Homogenous	65% Cellulose	35% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
 Romulus, MI 48174

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**ETC Job :** 199847  
**Client Project :** 33-01-01-15-305-131  
**Date Collected :** 12/21/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643283 02A 15 Wall N Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643283 02A 15 Wall N Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
643284 02B 4 Wall E Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643284 02B 4 Wall E Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
643285 02C 3 Wall E Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous		100% Other	None Detected
643285 02C 3 Wall E Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643286 02D 10 Wall S Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643286 02D 10 Wall S Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous		100% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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**Date Received :** 12/26/2017  
**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643287 02E 2 Wall S Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643287 02E 2 Wall S Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
643288 02F 9 Wall E Analyst: Daniel Agnew  No skim	Plaster	Grey Non-Fibrous Homogenous		97% Other	3% Chrysotile
643289 02G 8 Wall S Layer-1 Analyst: Daniel Agnew		Not Analyzed			
643289 02G 8 Wall S Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643290 03A 17 E Wall Analyst: Daniel Agnew	Concrete	Grey Non-Fibrous Homogenous		100% Other	None Detected
643291 03B 19 S Wall Analyst: Daniel Agnew	Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643292 04A E 17 Wall Analyst: Daniel Agnew	Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
 Romulus, MI 48174

**Location :**  
 230 S Eighth St, Lansing, MI

**ETC Job :** 199847  
**Client Project :** 33-01-01-15-305-131  
**Date Collected :** 12/21/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643293 04B S 19 Wall Analyst: Daniel Agnew	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643294 05A 17 W Floor Analyst: Daniel Agnew	Powdered Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643295 05B 19 N Floor Analyst: Daniel Agnew	Powdered Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643296 06A E Ceiling 2 Analyst: Daniel Agnew	Ceiling Tile	White Fibrous Homogenous	45% Cellulose 5% Fiberglass	50% Other	None Detected
643297 06B N Ceiling 3 Analyst: Daniel Agnew	Ceiling Tile	White Fibrous Homogenous	50% Cellulose 5% Fiberglass	45% Other	None Detected
643298 07A W Ceiling 3 Analyst: Daniel Agnew	Ceiling Tile	Tan Fibrous Homogenous	98% Cellulose	2% Other	None Detected
643299 07B S Ceiling 4 Analyst: Daniel Agnew	Ceiling Tile	Tan Fibrous Homogenous	99% Cellulose	1% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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 Romulus, MI 48174

**Location :**  
 230 S Eighth St, Lansing, MI

**ETC Job :** 199847  
**Client Project :** 33-01-01-15-305-131  
**Date Collected :** 12/21/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643300 08A 10 E Wall Analyst: Daniel Agnew	Blown-in Insulation	Grey Fibrous Homogenous	3% Cellulose 95% Mineral wool	2% Other	None Detected
643301 08B 8 N Wall Analyst: Daniel Agnew	Blown-in Insulation	Grey Fibrous Homogenous	1% Cellulose 97% Mineral wool	2% Other	None Detected
643302 09A 9 S Floor Analyst: Daniel Agnew	Linoleum	Blue/Red/Green Non-Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643303 09B 9 N Floor Analyst: Daniel Agnew	Linoleum	Blue/Red/Green Non-Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643304 10A 6 W Floor Analyst: Daniel Agnew	Linoleum	Brown Non-Fibrous Homogenous	60% Cellulose	40% Other	None Detected
643305 10B 6 E Floor Analyst: Daniel Agnew	Linoleum	Brown Non-Fibrous Homogenous	65% Cellulose	35% Other	None Detected
643306 11A 10 E Floor Analyst: Daniel Agnew	Linoleum	Brown Non-Fibrous Homogenous		100% Other	None Detected

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 38900 Huron River Drive  
 Romulus, MI 48174

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 230 S Eighth St, Lansing, MI

**ETC Job :** 199847  
**Client Project :** 33-01-01-15-305-131  
**Date Collected :** 12/21/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643307 11B 10 W Floor Analyst: Daniel Agnew	Linoleum	Brown Non-Fibrous Homogenous		100% Other	None Detected
643308 12A 10 E Floor Analyst: Daniel Agnew	Backing	Black Fibrous Homogenous	97% Cellulose	3% Other	None Detected
643309 12B 10 W Floor Analyst: Daniel Agnew	Backing	Black Fibrous Homogenous	96% Cellulose	4% Other	None Detected
643310 13A 1 W Floor Analyst: Daniel Agnew	Peel & Stick	Grey Non-Fibrous Homogenous		100% Other	None Detected
643311 13B 12 N Floor Analyst: Daniel Agnew	Peel & Stick	Grey Non-Fibrous Homogenous		100% Other	None Detected
643312 14A 1 W Floor Layer-1 Analyst: Daniel Agnew	Linoleum	Brown Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
643312 14A 1 W Floor Layer-2 Analyst: Daniel Agnew	Fiber Layer	Brown Fibrous Homogenous	100% Cellulose		None Detected

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**Date Collected :** 12/21/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643313 14B 12 N Floor Layer-1 Analyst: Daniel Agnew	Linoleum	Brown Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
643313 14B 12 N Floor Layer-2 Analyst: Daniel Agnew	Fiber Layer	Brown Fibrous Homogenous	100% Cellulose		None Detected
643314 15A 1 W Floor Analyst: Daniel Agnew	Backing	Brown Fibrous Homogenous	97% Cellulose	3% Other	None Detected
643315 15B 12 N Floor Analyst: Daniel Agnew	Backing	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
643316 16A 1 W Floor Analyst: Daniel Agnew  Mastics 17A+B inseparable from linoleum	Linoleum	White Fibrous Homogenous	60% Cellulose	10% Other	30% Chrysotile
643317 16B 12 N Floor Analyst: Daniel Agnew		Not Analyzed			
643318 17A 1 W Floor Analyst: Daniel Agnew	Mastic	Brown Non-Fibrous Homogenous	30% Cellulose	55% Other	15% Chrysotile

## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
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**Client Project :** 33-01-01-15-305-131  
**Date Collected :** 12/21/2017  
**Date Received :** 12/26/2017  
**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643319 17B 12 N Floor Analyst: Daniel Agnew		Not Analyzed			
643320 18A Ext Roof N Analyst: Daniel Agnew	Shingle	Black Non-Fibrous Homogenous	8% Cellulose	92% Other	None Detected
643321 18B Ext Roof W Analyst: Daniel Agnew	Shingle	Black Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected
643322 19A Ext Roof N Analyst: Daniel Agnew	Roof Paper	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
643323 19B Ext Roof W Analyst: Daniel Agnew	Roof Paper	Black Fibrous Homogenous	88% Cellulose	12% Other	None Detected
643324 20A Ext House Analyst: Daniel Agnew	House Wrap	Black Fibrous Homogenous	93% Cellulose	7% Other	None Detected
643325 20B Ext House Analyst: Daniel Agnew	House Wrap	Black Fibrous Homogenous	95% Cellulose	5% Other	None Detected

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**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643326 21A Ext House Analyst: Daniel Agnew	Asphalt Siding	Black Non-Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643327 21B Ext House Analyst: Daniel Agnew	Asphalt Siding	Black Non-Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643328 22A Ext Window Analyst: Daniel Agnew	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643329 22B Ext Window Analyst: Daniel Agnew	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Daniel Agnew

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

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**ENVIRONMENTAL TESTING LABORATORIES, INC**

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

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 199847

<b>Client:</b> ETC	<b>Contact:</b> Phone: (734) 955-6600	<b>Project Location/Name:</b> 230 Eighth, Lansing
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2etc.com	<b>Client Project #:</b> 199847
<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> 12/21/17

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

**PLM Instructions**

(Check all that apply)

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

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 ABC		
	02 ABCDEFG		
	03 AB		Please see attached
	24 AB		

	Date	Time
Relinquished (Name/Organization): <u>Eric Eitel</u>	12/21/17	am/pm
Received (Name/ETL): <u>Buttomy</u>	12/26/17	am/pm
Microscopical Analysis (Name/ETL): <u>Kevin Appen</u>	12-26-17	am/pm
Sample Login (Name/ETL): <u>Roxana Serepts</u>	12-26-17	am/pm
Analysis (Name/ETL): <u>Kevin Appen</u>	12-26-17	am/pm
A/QC Review (Name/ETL): <u>[Signature]</u>	12/27/17	am/pm

**Special Instructions:** Please point count anything less than 2% **Remarks:**

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

Job #:	Building: 230 Eighth			Date: 12/21/19	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
01	Material: Duct wrap Description: Grey Fiber	NF	A	2 W floor 643276	2/8/19	30	
			B	7 S floor 277	8/9/19		
			C	8 W floor 278			
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						

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

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Building:		Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location		
1999649				230 Eighth	12/24/19	
23	Material: Ceiling tile Description: white	F	A	4 W Ceiling	643279	
			B	4 S Ceiling	280	220
24	Material: Linoleum Description: Black/Green multi	N	A	16 E Floor	281	
			B	16 W Floor	282	25
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			

3

2 samples

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #:	199849		Building:	230 eighth		Date:	12/21/25		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #		
	Material: Plaster	N	A	5 Wall N 0432	throughout 577H				
02	Grey		B	4 Wall E 284					
			C	3 Wall P 285					
			D	10 Wall S 286					
			E	7 Wall S 287					
			F	9 Wall W 288					
			G	8 Wall S 289					
	Material:								
	Material:								
	Material:								

<1000 SF = 3 samples

1000 - <5000 = 5 samples



# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	199847		Building:	230 Eighth		Date:	10/22/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
03	Material: wall skin coat/concrete Description: White	NF	A	17 E wall	643290	1384		
04	Material: concrete Description: Grey	NF	B	19 S wall	291			
05	Material: Painted ceiling Description: Grey	NF	A	E 17 wall	292	1384		
06	Material: Ceiling tile Description: white	F	B	S 19 wall	293			
07	Material: Ceiling tile Description: white	F	A	17 W floor	294			
08	Material: Blown in Description: Grey	F	B	19 N floor	295			
09	Material: lenoleum Description: Blue/Red/Green	N	A	E ceiling	296			
10	Material: lenoleum Description: Brown	N	B	N ceiling	297			
11	Material: lenoleum Description: tan	N	A	W ceiling	298			
12	Material: Backing Description: Black	N	B	S ceiling	299			
			A	10 E wall	300			
			B	8 N wall	301			
			A	9 S floor	302			
			B	9 N floor	303			
			A	6 W floor	304			
			B	6 E floor	305			
			A	10 E floor	306			
			B	10 W floor	307			
			A	10 E floor	308			
			B	10 W floor	309			

2 samples

5

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building:		Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
			Friable (F) / Non-Friable (NF)							
13	199 849	Material: 12 X 12 Peel and stick	N	230	A	Floor 643310	12/21/15			
		Description								
14	199 849	Material: Granite Penton	N	230	A	Floor 311	1/12		1044	
		Description								
15	199 849	Material: tan/grey/with fibers	N	230	A	Floor 312	1/12		1044	
		Description								
16	199 849	Material: Fibers under lamination	N	230	A	Floor 314	1/12		1044	
		Description								
17	199 849	Material: Brown	N	230	A	Floor 315	1/12		1044	
		Description								
18	199 849	Material: tan/gold	N	230	A	Floor 316	1/12		1044	
		Description								
19	199 849	Material: mastic	N	230	A	Floor 317	1/12		1044	
		Description								
20	199 849	Material: Tan	N	230	A	Floor 318	1/12		1044	
		Description								
21	199 849	Material: Asphalt Shingle	N	230	A	ext Roof N	ext		792	
		Description								
22	199 849	Material: Black/Grey	N	230	A	ext Roof W	ext		792	
		Description								
23	199 849	Material: Shingle under lamination	N	230	A	ext Roof N	ext		792	
		Description								
24	199 849	Material: Black	N	230	A	House 322	ext		1824	
		Description								
25	199 849	Material: House W/Drp	N	230	A	House 324	ext		1824	
		Description								
26	199 849	Material: Black	N	230	A	House 325	ext		1824	
		Description								
27	199 849	Material: Asphalt and Fiber	N	230	A	House 326	ext		1824	
		Description								
28	199 849	Material: Grey Stone	N	230	A	House 327	ext		1824	
		Description								
29	199 849	Material: Window Glaze	N	230	A	windows 328	ext	19 units	17	units
		Description								
30	199 849	Material: white	N	230	B	windows 329	ext	19 units	17	units
		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: Wade Wiltse

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-15-483-121
House No:	622 Allen St, Lansing, MI 48912
Date Inspected:	12/3/2017
Inspected By:	Jake Gleason
Inspectors State Card #	A-49991

Building Information			
No. Stories	1	Garage	Detached
Square Footage	725 SF	Garage Square Footage	100 SF
Basement Square Footage	No Basement	Garage Siding	Wood
Siding	Vinyl	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: 33-01-01-15-483-121  
House No. 622 Allen St, Lansing, MI 48912  
Date Inspected: 12/3/2017

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Refrigerator	2	Room 6
Electronics	3	Room 2, 6

## 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: 33-01-01-15-483-121  
 House No. 622 Allen St, Lansing, MI 48912  
 Date Inspected: 12/3/2017

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

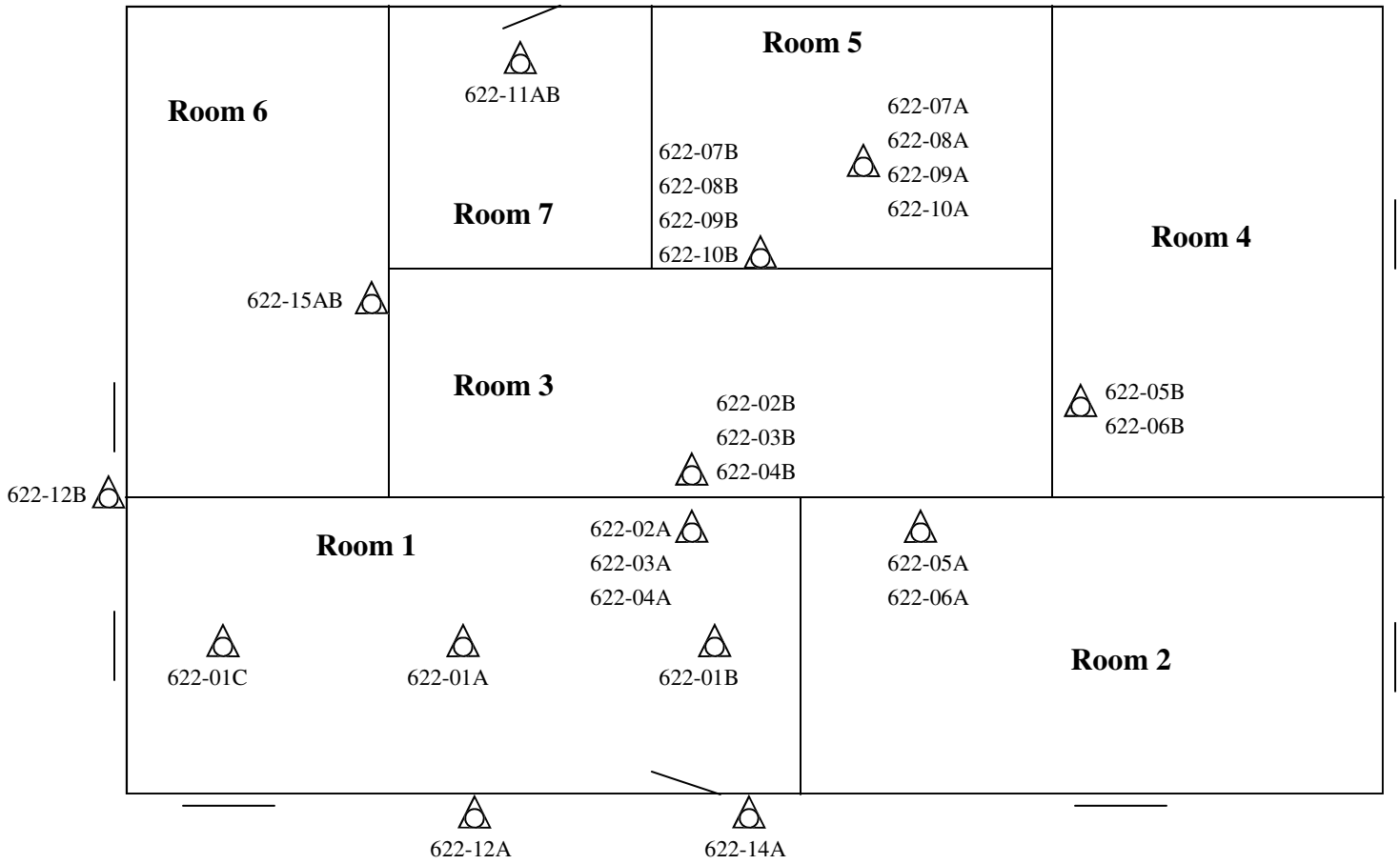
Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Texture ceiling, white	Room 1	216 SF	No
2	NF	Vapor barrier, black	Room 1, 3	250 SF	No
<b>3</b>	<b>NF</b>	<b>9x9 Floor tile, white</b>	<b>Room 1, 3</b>	<b>250 SF</b>	<b>YES</b>
4	NF	Mastic, black (under 3)	Room 1, 3	250 SF	No
<b>5</b>	<b>NF</b>	<b>9x9 Floor tile, brown</b>	<b>Room 2, 4</b>	<b>300 SF</b>	<b>YES</b>
6	NF	Mastic, black (under 5)	Room 2, 4	300 SF	No
7	NF	12x12 Peel and stick, tan	Room 5, 6	150 SF	No
8	NF	12x12 Peel and stick, yellow	Room 5	45 SF	No
<b>9</b>	<b>NF</b>	<b>9x9 Floor tile, green</b>	<b>Room 5</b>	<b>45 SF</b>	<b>YES</b>
10	NF	Mastic, black (under 9)	Room 5	45 SF	No
11	NF	Linoleum, yellow	Room 7	64 SF	No
12	F	Fiberboard, brown	Exterior (house)	900 SF	No
13	NF	Garage wrap, tan	Exterior (garage)	100 SF	No
14	NF	Asphalt shingle, grey	Exterior	1000 SF	No
<b>15</b>	<b>F</b>	<b>Sink undercoat, black</b>	<b>Room 6</b>	<b>4 SF</b>	<b>YES</b>
<b>16</b>	<b>F</b>	<b>Vermiculite</b>	<b>Throughout Ceilings</b>	<b>750 SF</b>	<b>No</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

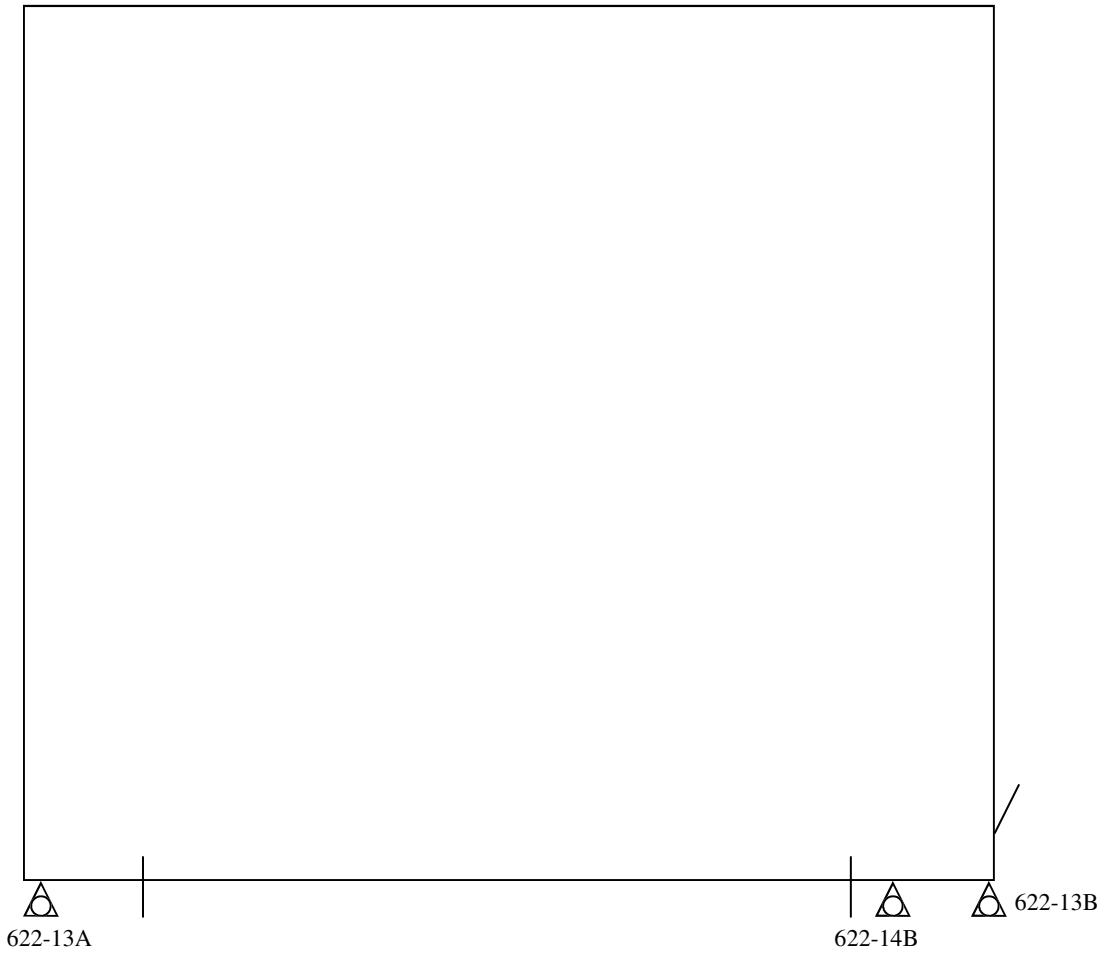


 Sample Location

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.

**Garage**

33-01-01-15-483-121  
622 Allen St, Lansing, MI 48912  
12/3/2017



 Sample Location

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

Ingham County Land Bank  
199848

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-15-483-121  
House No. 622 Allen St, Lansing, MI 48912  
Date Inspected: 12/3/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-15-483-121
House No.	622 Allen St, Lansing, MI 48912
Date Inspected:	12/3/2017



Garage



## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-15-483-121  
House No. 622 Allen St, Lansing, MI 48912  
Date Inspected: 12/3/2017



Refrigerator



Electronics

## Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-15-483-121  
House No. 622 Allen St, Lansing, MI 48912  
Date Inspected: 12/3/2017



9x9 Floor tile, white



9x9 Floor tile, brown



9x9 Floor tile, green



Sink undercoat

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 :  
622 Allen St, Lansing, MI

**Attention :**

Client Project : 33-01-01-15-483-121

ETC Job : 199848

Report Date : 1/11/2018

Login #	Sample ID	Work Requested	Completed
634394	01A	Asbestos Analysis	12/07/2017
634395	01B	Asbestos Analysis	12/07/2017
634396	01C	Asbestos Analysis	12/07/2017
634397	02A	Asbestos Analysis	12/07/2017
634398	02B	Asbestos Analysis	12/07/2017
634399	03A	Asbestos Analysis	12/07/2017
634400	03B	Asbestos Analysis	12/07/2017
634401	04A	Asbestos Analysis	12/07/2017
634402	04B	Asbestos Analysis	12/07/2017
634403	05A	Asbestos Analysis	12/07/2017
634404	05B	Asbestos Analysis	12/07/2017
634405	06A	Asbestos Analysis	12/07/2017
634406	06B	Asbestos Analysis	12/07/2017
634407	07A	Asbestos Analysis	12/07/2017
634408	07B	Asbestos Analysis	12/07/2017
634409	08A	Asbestos Analysis	12/07/2017
634410	08B	Asbestos Analysis	12/07/2017
634411	09A	Asbestos Analysis	12/07/2017
634412	09B	Asbestos Analysis	12/07/2017
634413	10A	Asbestos Analysis	12/07/2017

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

---

Login #	Sample ID	Work Requested	Completed
634414	10B	Asbestos Analysis	12/07/2017
634415	11A	Asbestos Analysis	12/07/2017
634416	11B	Asbestos Analysis	12/07/2017
634417	12A	Asbestos Analysis	12/07/2017
634418	12B	Asbestos Analysis	12/07/2017
634419	13A	Asbestos Analysis	12/07/2017
634420	13B	Asbestos Analysis	12/07/2017
634421	14A	Asbestos Analysis	12/07/2017
634422	14B	Asbestos Analysis	12/07/2017
634423	15A	Asbestos Analysis	12/07/2017
634424	15B	Asbestos Analysis	12/07/2017
646660	01A	Asbestos Analysis	12/07/2017
646661	01B	Asbestos Analysis	01/11/2018
646662	01C	Asbestos Analysis	01/11/2018

---

Reviewed by:



Quality Assurance Coordinator



## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 622 Allen St, Lansing, MI

**ETC Job :** 199848  
**Client Project :** 33-01-01-15-483-121  
**Date Collected :** 12/03/2017  
**Date Received :** 12/04/2017  
**Date Analyzed :** 12/07/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634394 01A Center rm 1 Analyst: Dave Cousino	Textured Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
634395 01B N rm 1 Analyst: Dave Cousino	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
634396 01C S rm 1 Analyst: Dave Cousino	Textured Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
634397 02A rm 1 W entry Analyst: Dave Cousino	Vapor Barrier	Black Fibrous Homogenous	15% Cellulose	85% Other	None Detected
634398 02B rm 3 E entry Analyst: Dave Cousino	Vapor Barrier	Black Fibrous Homogenous	12% Cellulose	88% Other	None Detected
634399 03A rm 1 W entry Analyst: Dave Cousino	9x9 Floor Tile	White Non-Fibrous Homogenous	3% Cellulose	94% Other	3% Chrysotile
634400 03B rm 3 E entry Analyst: Dave Cousino		Not Analyzed			

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 :**  
 622 Allen St, Lansing, MI

**ETC Job :** 199848  
**Client Project :** 33-01-01-15-483-121  
**Date Collected :** 12/03/2017  
**Date Received :** 12/04/2017  
**Date Analyzed :** 12/07/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634401 04A rm 1 W entry Analyst: Dave Cousino	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
634402 04B rm 3 E entry Analyst: Dave Cousino	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
634403 05A rm 2 W entry Analyst: Dave Cousino	9x9 Floor Tile	Brown Non-Fibrous Homogenous	2% Cellulose	95% Other	3% Chrysotile
634404 05B rm 4 S entry Analyst: Dave Cousino		Not Analyzed			
634405 06A rm 2 W entry Analyst: Dave Cousino	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
634406 06B rm 4 S entry Analyst: Dave Cousino	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
634407 07A rm 5 center Analyst: Dave Cousino	12x12 Peel & Stick	Tan 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 :**  
 622 Allen St, Lansing, MI

**ETC Job :** 199848  
**Client Project :** 33-01-01-15-483-121  
**Date Collected :** 12/03/2017  
**Date Received :** 12/04/2017  
**Date Analyzed :** 12/07/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634408 07B rm 6 entry E Analyst: Dave Cousino	12x12 Peel & Stick	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
634409 08A rm 5 center Analyst: Dave Cousino	12x12 Peel & Stick	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
634410 08B rm 5 entry E Analyst: Dave Cousino	12x12 Peel & Stick	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
634411 09A rm 5 center Analyst: Dave Cousino	9x9 Floor Tile	Green Non-Fibrous Homogenous	3% Cellulose	94% Other	3% Chrysotile
634412 09B rm 5 entry E Analyst: Dave Cousino		Not Analyzed			
634413 10A rm 5 center Analyst: Dave Cousino	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
634414 10B rm 5 entry E Analyst: Dave Cousino	Mastic	Black 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 :**  
 622 Allen St, Lansing, MI

**ETC Job :** 199848  
**Client Project :** 33-01-01-15-483-121  
**Date Collected :** 12/03/2017  
**Date Received :** 12/04/2017  
**Date Analyzed :** 12/07/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634415 11A rm 7 center Analyst: Dave Cousino	Linoleum	Yellow Fibrous Homogenous	4% Cellulose	96% Other	None Detected
634416 11B rm 7 center Analyst: Dave Cousino	Linoleum	Yellow Fibrous Homogenous	5% Cellulose	95% Other	None Detected
634417 12A E side S entry Analyst: Dave Cousino	Fiber Board	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
634418 12B S side middle Analyst: Dave Cousino	Fiber Board	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
634419 13A SE side Analyst: Dave Cousino	Wrap	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
634420 13B NE side Analyst: Dave Cousino	Wrap	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
634421 14A back entry Analyst: Dave Cousino	Asphalt Shingle	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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# 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 :  
622 Allen St, Lansing, MI

ETC Job : 199848  
Client Project : 33-01-01-15-483-121  
Date Collected : 12/03/2017  
Date Received : 12/04/2017  
Date Analyzed : 12/07/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634422 14B east entry garage Analyst: Dave Cousino	Asphalt Shingle	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
634423 15A sink Analyst: Dave Cousino	Sink Undercoat	Black Non-Fibrous Homogenous	3% Cellulose	94% Other	3% Chrysotile
634424 15B sink Analyst: Dave Cousino		Not Analyzed			
646660 01A Center Attic Analyst: OJ Ivey	Vermiculite	Grey Fibrous Homogenous	2% Cellulose	98% Other	Trace Actinolite
646661 01B Center Attic Analyst: OJ Ivey	Vermiculite	Grey Fibrous Homogenous	8% Cellulose	92% Other	Trace Actinolite

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**Polarized Light Microscopy Asbestos Analysis Report**

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

**Location :**  
 622 Allen St, Lansing, MI

**ETC Job :** 199848  
**Client Project :** 33-01-01-15-483-121  
**Date Collected :** 01/09/2018  
**Date Received :** 01/10/2018  
**Date Analyzed :** 01/11/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
646662 01C Center Attic Analyst: OJ Ivey	Vermiculite	Grey Fibrous Homogenous	5% Cellulose	95% Other	Trace Actinolite



Lab Supervisor/Other Signatory



Analyst: Dave Cousino



Analyst: OJ Ivey

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 #: 199848

<b>Client:</b> ETC	<b>Contact:</b> <u>Liv Hagman</u>	<b>Project Location/Name:</b> <u>622 Allen St Lansing, MI</u>
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Phone:</b> (734) 955-6600	<b>Client Project #:</b> <u>199848</u>
	<b>Fax:</b> (734) 955-6604	<b>Date Sampled:</b> <u>12/3/17</u>
	<b>E-mail:</b> results@2etil.com	
<b>Please Provide Results:</b> <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		

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

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

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

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 ABC		
	02 AB		
		<u>Please see Attached Sheets</u>	
	15 AB		

	Name/Signature	Date	Time
Relinquished (Name/Organization):	<u>Jake Gleason</u>	<u>12/3/17</u>	<u>5:00</u> am/pm
Received (Name/ETL):	<u>Alli Z...</u>	<u>12.4.17</u>	am/pm
Stereoscopic Analysis (Name/ETL):	<u>Dave Cousins</u>	<u>12/7/17</u>	am/pm
Sample Login (Name/ETL):	<u>Alli Z...</u>	<u>12.4.17</u>	am/pm
Analysis (Name/ETL):	<u>Dave Cousins</u>	<u>12/7/17</u>	am/pm
QA/QC Review (Name/ETL):	<u>[Signature]</u>	<u>12/7/17</u>	am/pm

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

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #:	Building:			Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
1	Material: texture ceiling white	F	A B C	Center rm 1 634394 N rm 1 3915 S rm 1 3916	1	216	
	Material:						
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

2 of 4



# Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	199848		Building:	622 Allen St, Lansing MI		Date:	12/3/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
2	Material: Vapor barrier	NF	A	rm 1 w entry	113	250		
	Description: black		B	rm 3 E entry 308				
3	Material: 9x9 tile	NF	A	rm 1 w entry 309	113	250		
	Description: white		B	rm 3 E entry 400				
4	Material: mastic (under 3)	NF	A	rm 1 w entry 401	113	250		
	Description: black		B	rm 3 E entry 402				
5	Material: 9x9 tile	NF	A	rm 2 w entry 403	214	300		
	Description: Brown		B	rm 4 S entry 401				
6	Material: mastic (unders)	NF	A	rm 2 w entry 405	214	300		
	Description: black		B	rm 4 S entry 406				
7	Material: 12x12 P+S	NF	A	rm 5 center 407	516	150		
	Description: tan		B	rm 6 entry E 408				
8	Material: 12x12 P+S	NF	A	rm 5 center 409	5	415		
	Description: yellow		B	rm 5 entry E 410				
9	Material: 9x9 tile	NF	A	rm 5 center 411	5	415		
	Description: green		B	rm 5 entry E 412				
10	Material: mastic (under 4)	NF	A	rm 5 center 413	75	645		
	Description: black		B	rm 5 center E 414				
11	Material: linoleum	NF	A	rm 7 center 415	7	604		
	Description: yellow		B	rm 7 center 416				

Asbestos Material Sampling Summary Sheet  
Miscellaneous materials

Revision date 5/7/2015

Job #:	199848		Building:	622 Allen St. Lansing MI		Date:	12/3/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
12	Material: Fiber board	f	A	e side S entry	ext house	900		
	Description: <del>brock</del> brown		B	S side middle 418				
13	Material: Garage wrap	NF	A	SE side 419	ext garage 1000			
	Description: tan		B	NE side 420				
14	Material: Asphalt shingle	NF	A	back entry 421	ext 1000			
	Description: grey		B	east entry Garage 422				
15	Material: Sink undercoat	f	A	sink 423	6			
	Description: black		B	sink 424				
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					

2 samples

6 of 4



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 www.2etil.com

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 19984-199848

<b>Client:</b> ETC	<b>Contact:</b> Phone: (734) 955-6600	<b>Project Location/name:</b> <del>625 Woodward</del> , Lansing 622 Allen St MI
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2etil.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> 1/9/18

**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 checked="" type="checkbox"/> Soil or Vermiculite Analysis *

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	OIA-04-C		

	Date	Time
Relinquished (Name/Organization):	1-9-18	am/pm
Received (Name/ETL):	Anisa Usmanliji / ETL	1/10/18 9:56 am/pm
Stereoscopical Analysis (Name/ETL):	Julio J. Jr	1-10-18 6:30 am/pm
Sample Login (Name/ETL):	Anisa Usmanliji	1/10/18 10:00 am/pm
Analysis (Name/ETL):		am/pm
QA/QC Review (Name/ETL):		1/11/18 am/pm

<b>Special Instructions:</b>	<b>Remarks:</b>
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# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Building:		Date:	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Material Located throughout bldg (Please List all Rooms)	
199848	622 Allenst, Lansing, MI		1/9/2018		
61	Material: Vermiculite Description: fan	F	A	Attic	6410060
	Material: <del>Asbestos</del>		B	Attic center	6410061
	Material: <del>Asbestos</del>		AC	Attic center	6410065
	Material: <del>Asbestos</del>		B	Attic	
	Material: <del>Asbestos</del>		A		
	Material: <del>Asbestos</del>		B		
	Material: <del>Asbestos</del>		A		
	Material: <del>Asbestos</del>		B		
	Material: <del>Asbestos</del>		A		
	Material: <del>Asbestos</del>		B		
	Material: <del>Asbestos</del>		A		
	Material: <del>Asbestos</del>		B		
	Material: <del>Asbestos</del>		A		
	Material: <del>Asbestos</del>		B		
	Material: <del>Asbestos</del>		A		
	Material: <del>Asbestos</del>		B		
	Material: <del>Asbestos</del>		A		
	Material: <del>Asbestos</del>		B		
	Material: <del>Asbestos</del>		A		
	Material: <del>Asbestos</del>		B		
	Material: <del>Asbestos</del>		A		
	Material: <del>Asbestos</del>		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: \_\_\_\_\_

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:	33-01-01-15-485-111
House No:	622 Leslie St, Lansing, MI 48912
Date Inspected:	12/15/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	729 SF	Garage Square Footage	NA
Basement Square Footage	729 SF	Garage Siding	NA
Siding	Wood	Garage Color	NA
Color	White	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-15-485-111  
House No. 622 Leslie St, Lansing, MI 48912  
Date Inspected: 12/15/2017

**TABLE 1**

## HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Thermostats	1	Room 1

## TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-15-485-111  
 House No. 622 Leslie St, Lansing, MI 48912  
 Date Inspected: 12/15/2017

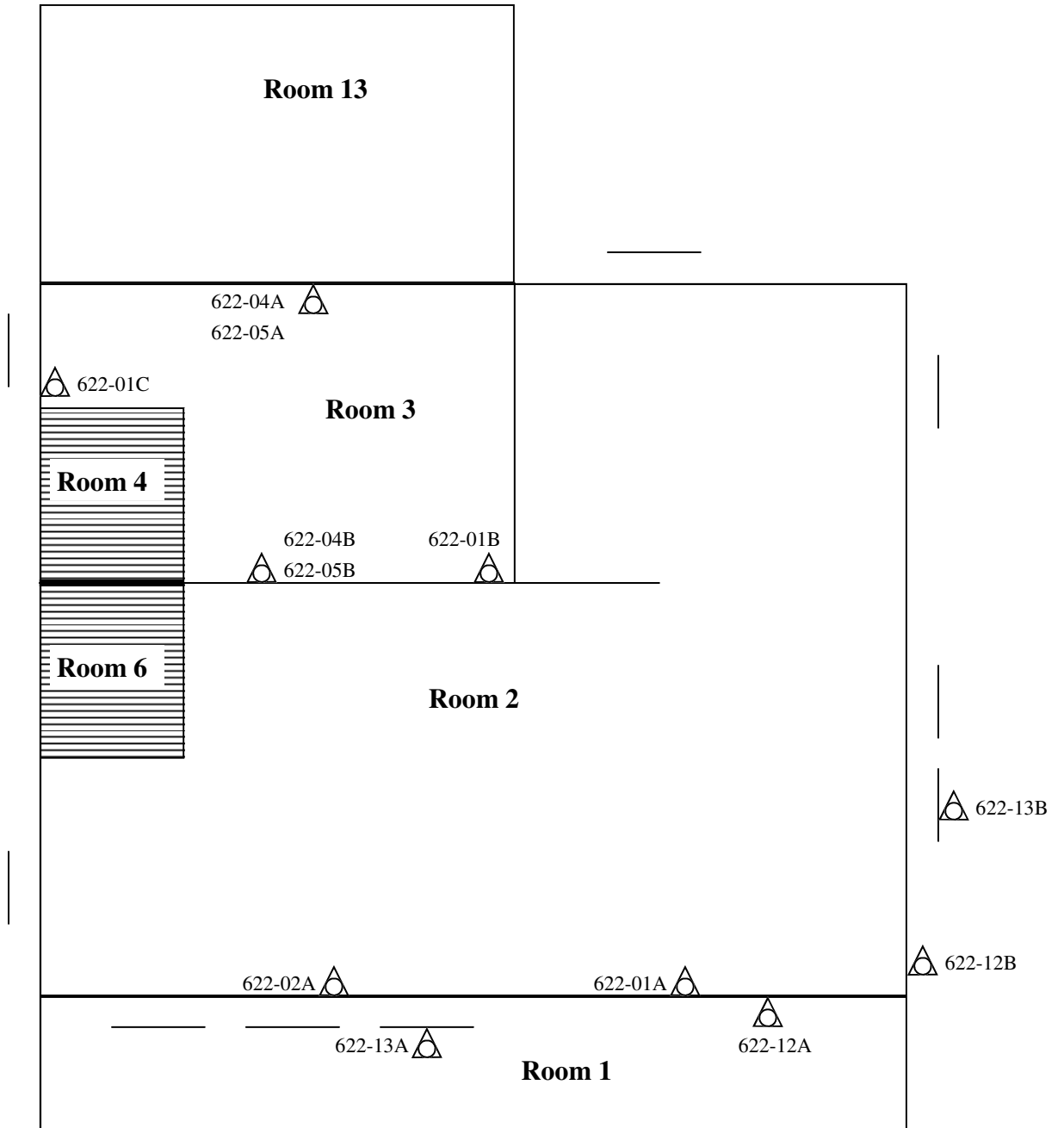
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
1	NF	Plaster, grey	Throughout	4536 SF	No
<b>2</b>	<b>F</b>	<b>Duct wrap, white</b>	<b>Room 1, 8-10</b>	<b>8 SF</b>	<b>YES</b>
<b>3</b>	<b>F</b>	<b>Elbow/boot wrap, white</b>	<b>Room 5</b>	<b>8 SF</b>	<b>YES</b>
4	NF	Linoleum, tan blocks	Room 3	180 SF	No
5	NF	Linoleum, beige	Room 3	180 SF	No
6	NF	Cinder block, grey	Room 5	864 SF	No
7	NF	Mortar, grey	Room 5	21 SF	No
8	NF	Poured concrete, grey	Room 5	729 SF	No
9	NF	Linoleum, tan speckle	Room 9	180 SF	No
10	NF	Linoleum, beige rock pattern	Room 8	81 SF	No
11	NF	Fiberboard, brown/black	Room 11	240 SF	No
12	F	House wrap, black	Exterior	1728 SF	No
<b>13</b>	<b>NF</b>	<b>Window glaze, white</b>	<b>Exterior</b>	<b>18 windows</b>	<b>YES</b>
14	NF	Asphalt shingles, black	Exterior	729 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.

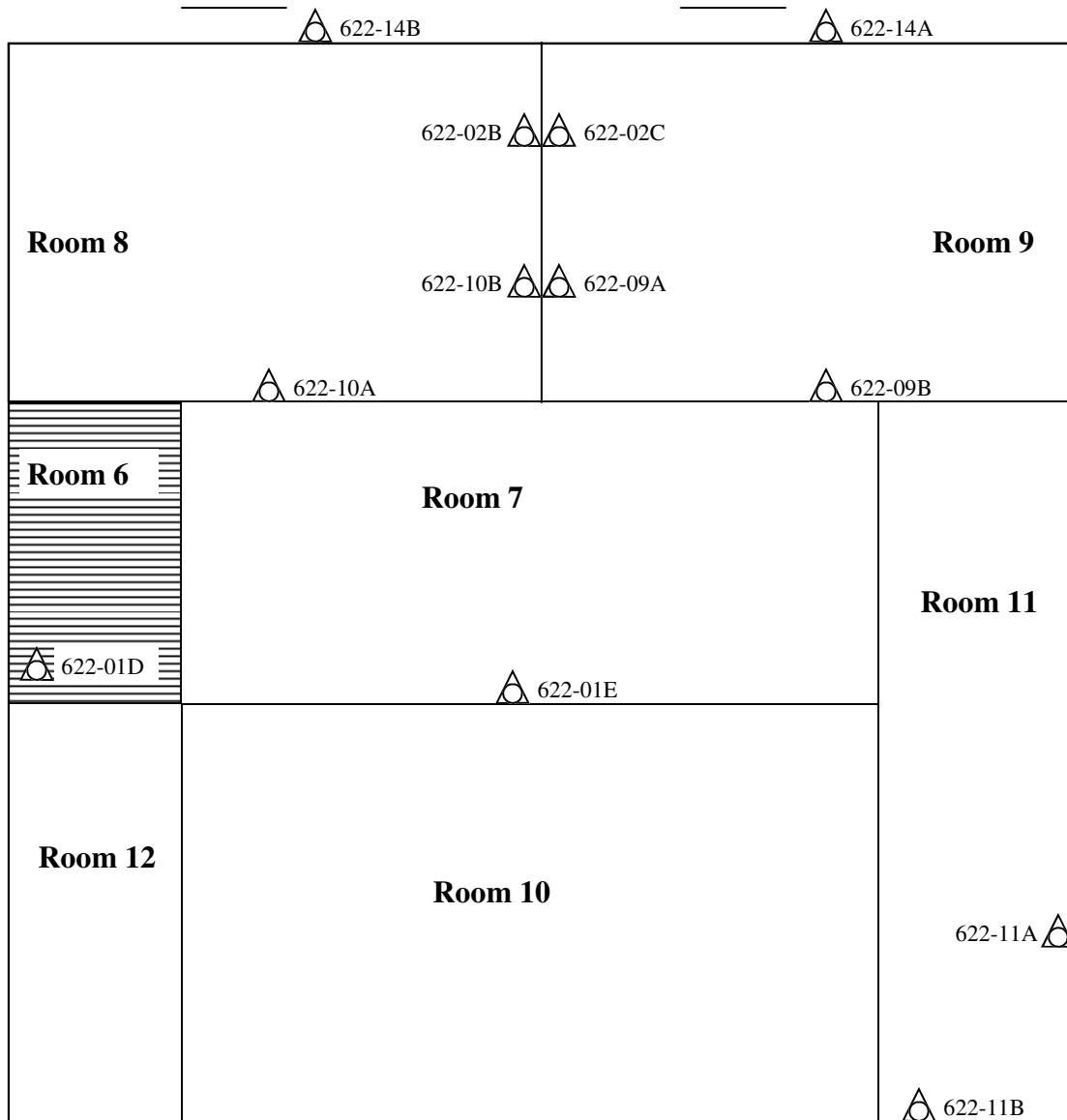
Attachment:


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.



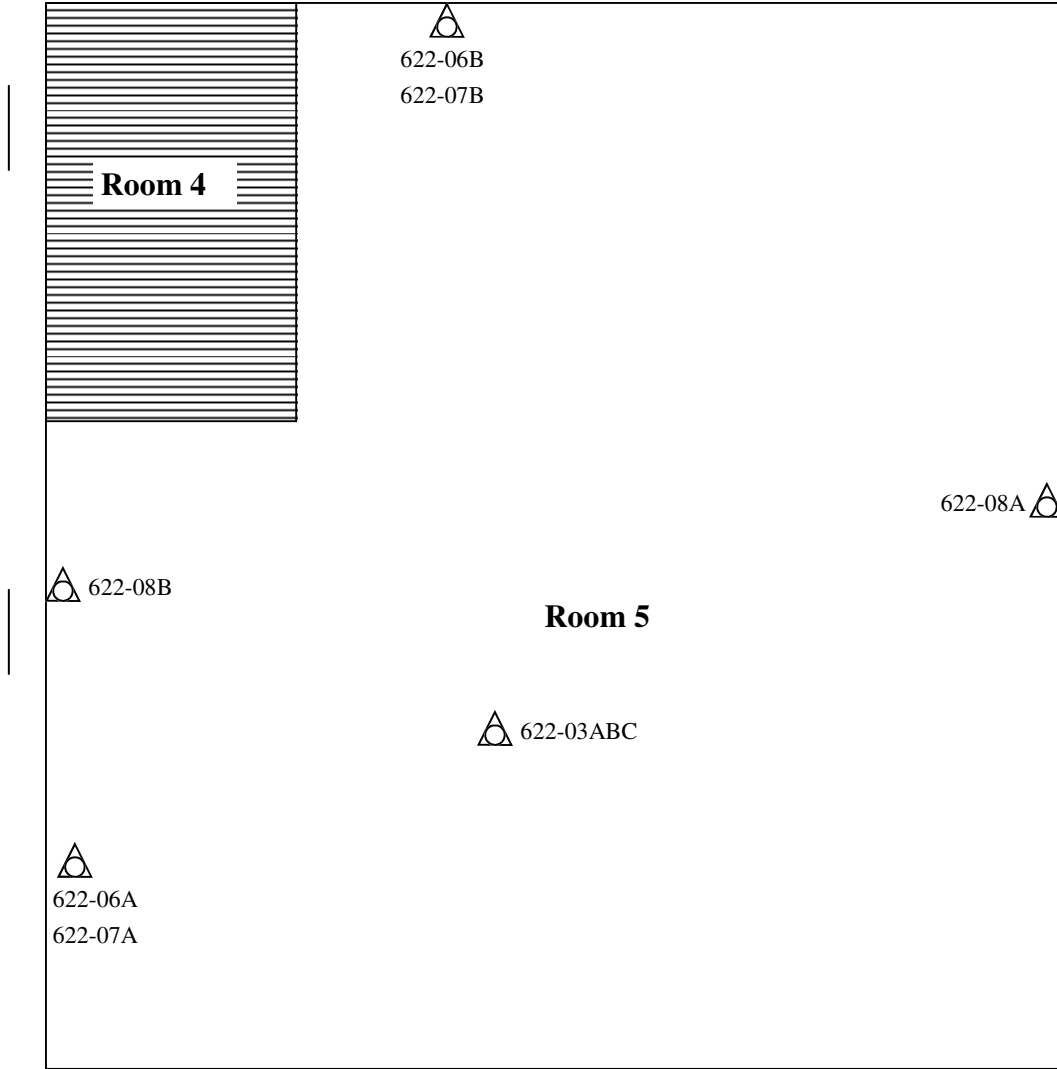
 Sample Location

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**

33-01-01-15-485-111  
622 Leslie St, Lansing, MI 48912  
12/15/2017



 Sample Location

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

Ingham County Land Bank  
200409

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-15-485-111  
House No. 622 Leslie St, Lansing, MI 48912  
Date Inspected: 12/15/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of Hazardous Materials

Parcel:	33-01-01-15-485-111
House No.	622 Leslie St, Lansing, MI 48912
Date Inspected:	12/15/2017



Thermostats

## Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-15-485-111  
House No. 622 Leslie St, Lansing, MI 48912  
Date Inspected: 12/15/2017



Duct Wrap



Elbow/Boot Wrap



Window Glaze

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 :  
622 Leslie St, Lansing, MI 48912

**Attention :**

Client Project : N/A

ETC Job : 200409  
Report Date : 12/20/2017

Login #	Sample ID	Work Requested	Completed
640640	01A	Asbestos Analysis	12/20/2017
640641	01B	Asbestos Analysis	12/20/2017
640642	01C	Asbestos Analysis	12/20/2017
640643	01D	Asbestos Analysis	12/20/2017
640644	01E	Asbestos Analysis	12/20/2017
640645	02A	Asbestos Analysis	12/20/2017
640646	02B	Asbestos Analysis	12/20/2017
640647	02C	Asbestos Analysis	12/20/2017
640648	03A	Asbestos Analysis	12/20/2017
640649	03B	Asbestos Analysis	12/20/2017
640650	03C	Asbestos Analysis	12/20/2017
640651	04A	Asbestos Analysis	12/20/2017
640652	04B	Asbestos Analysis	12/20/2017
640653	05A	Asbestos Analysis	12/20/2017
640654	05B	Asbestos Analysis	12/20/2017
640655	06A	Asbestos Analysis	12/20/2017
640656	06B	Asbestos Analysis	12/20/2017
640657	07A	Asbestos Analysis	12/20/2017
640658	07B	Asbestos Analysis	12/20/2017
640659	08A	Asbestos Analysis	12/20/2017

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---

Login #	Sample ID	Work Requested	Completed
640660	08B	Asbestos Analysis	12/20/2017
640661	09A	Asbestos Analysis	12/20/2017
640662	09B	Asbestos Analysis	12/20/2017
640663	10A	Asbestos Analysis	12/20/2017
640664	10B	Asbestos Analysis	12/20/2017
640665	11A	Asbestos Analysis	12/20/2017
640666	11B	Asbestos Analysis	12/20/2017
640667	12A	Asbestos Analysis	12/20/2017
640668	12B	Asbestos Analysis	12/20/2017
640669	13A	Asbestos Analysis	12/20/2017
640670	13B	Asbestos Analysis	12/20/2017
640671	14A	Asbestos Analysis	12/20/2017
640672	14B	Asbestos Analysis	12/20/2017

---

Reviewed by:

\_\_\_\_\_  
Quality Assurance Coordinator



# 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 :**

622 Leslie St, Lansing, MI 48912

**ETC Job :** 200409

**Client Project :** N/A

**Date Collected :** 12/15/2017

**Date Received :** 12/19/2017

**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640640 01A 2 E Wall Layer-1 Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640640 01A 2 E Wall Layer-2 Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640641 01B 3 E Wall Layer-1 Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous		100% Other	None Detected
640641 01B 3 E Wall Layer-2 Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640642 01C 4 N Wall Layer-1 Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
640642 01C 4 N Wall Layer-2 Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640643 01D 6 S Wall Layer-1 Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640643 01D 6 S Wall Layer-2 Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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# 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 :**

622 Leslie St, Lansing, MI 48912

**ETC Job :** 200409

**Client Project :** N/A

**Date Collected :** 12/15/2017

**Date Received :** 12/19/2017

**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640644 01E 7 E Wall Layer-1 Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640644 01E 7 E Wall Layer-2 Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640645 02A 2 E Side Vent Analyst: OJ Ivey	Duct Wrap	Grey Fibrous Homogenous	30% Cellulose	15% Other	55% Chrysotile
640646 02B 8 N Side Vent Analyst: OJ Ivey		Not Analyzed			
640647 02C 9 S Side Vent Analyst: OJ Ivey		Not Analyzed			
640648 03A 5 Off Of Boiler N Analyst: OJ Ivey	Elbow/Boot Wrap	White Fibrous Homogenous	20% Cellulose	35% Other	45% Chrysotile
640649 03B 5 Off Of Boiler S Analyst: OJ Ivey		Not Analyzed			

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## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**

622 Leslie St, Lansing, MI 48912

**ETC Job :** 200409

**Client Project :** N/A

**Date Collected :** 12/15/2017

**Date Received :** 12/19/2017

**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640650 03C 5 Off Of Boiler E Analyst: OJ Ivey		Not Analyzed			
640651 04A 3 E Floor Analyst: OJ Ivey	Linoleum	Brown Fibrous Homogenous	10% Cellulose	90% Other	None Detected
640652 04B 3 W Floor Analyst: OJ Ivey	Linoleum	Brown Fibrous Homogenous	15% Cellulose	85% Other	None Detected
640653 05A 3 E Floor Analyst: OJ Ivey	Linoleum	Beige Fibrous Homogenous	25% Cellulose	75% Other	None Detected
640654 05B 3 W Floor Analyst: OJ Ivey	Linoleum	Beige Fibrous Homogenous	20% Cellulose	80% Other	None Detected
640655 06A 5 S Wall Analyst: OJ Ivey	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640656 06B 5 W Wall Analyst: OJ Ivey	Cinderblock	Grey 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 :**

622 Leslie St, Lansing, MI 48912

**ETC Job :** 200409

**Client Project :** N/A

**Date Collected :** 12/15/2017

**Date Received :** 12/19/2017

**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640657 07A 5 S Wall Analyst: OJ Ivey	Mortar	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
640658 07B 5 W Wall Analyst: OJ Ivey	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640659 08A 5 N Floor Analyst: OJ Ivey	Poured Concrete	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
640660 08B 5 S Floor Analyst: OJ Ivey	Poured Concrete	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
640661 09A 9 S Floor Analyst: OJ Ivey	Linoleum	Tan Fibrous Homogenous	15% Cellulose	85% Other	None Detected
640662 09B 9 E Floor Analyst: OJ Ivey	Linoleum	Tan Fibrous Homogenous	10% Cellulose	90% Other	None Detected
640663 10A 8 E Floor Analyst: OJ Ivey	Linoleum	Beige 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 :**  
 622 Leslie St, Lansing, MI 48912

**ETC Job :** 200409  
**Client Project :** N/A  
**Date Collected :** 12/15/2017  
**Date Received :** 12/19/2017  
**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640664 10B 8 N Floor Analyst: OJ Ivey	Linoleum	Beige Fibrous Homogenous	8% Cellulose	92% Other	None Detected
640665 11A 11 N Wall Analyst: OJ Ivey	Fiber Board	Brown/Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
640666 11B 11 E Wall Analyst: OJ Ivey	Fiber Board	Brown/Black Fibrous Homogenous	98% Cellulose	2% Other	None Detected
640667 12A Ext E Wall Analyst: OJ Ivey	Linoleum	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
640668 12B Ext N Wall Analyst: OJ Ivey	Linoleum	Black Fibrous Homogenous	95% Cellulose	5% Other	None Detected
640669 13A Ext E Window Analyst: OJ Ivey	Window Glaze	Grey Non-Fibrous Homogenous	3% Cellulose	93% Other	4% Chrysotile
640670 13B Ext N Window Analyst: OJ Ivey		Not Analyzed			

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**Polarized Light Microscopy Asbestos Analysis Report**

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

**Location :**  
 622 Leslie St, Lansing, MI 48912

**ETC Job :** 200409  
**Client Project :** N/A  
**Date Collected :** 12/15/2017  
**Date Received :** 12/19/2017  
**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640671 14A Ext NW Roof Analyst: OJ Ivey	Asphalt Shingles	Black Fibrous Homogenous	15% Cellulose	85% Other	None Detected
640672 14B Ext SW Roof Analyst: OJ Ivey	Asphalt Shingles	Black Fibrous Homogenous	10% Cellulose	90% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: OJ Ivey

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 #: 200409

<b>Client:</b> ETC	<b>Contact:</b> Phone: (734) 955-6600	<b>Project Location/Name:</b> 672 Leslie
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2etl.com	
<b>Please Provide Results:</b> <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		<b>Client Project #:</b> 200409 <b>Date Sampled:</b> 12/15/17

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

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

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

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 ABCDE		
	02 ABC		
	03 ABC ↓		
	04 AB		
	14 AB		

	Date	Time
Relinquished (Name/Organization):	Wade Wilke	12/15/17
Received (Name/ETL):	Brittany Walls	12/19/17
Stereoscopical Analysis (Name/ETL):	Orlando J. King Jr.	12-19-17 6:38
Sample Login (Name/ETL):	Brittany Walls	12/19/17
Analysis (Name/ETL):	Orlando J. King Jr.	12-19-17 6:38
QA/QC Review (Name/ETL):	[Signature]	12/20/17

**Special Instructions:** Please count anything less than 30% that's positive

**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 #
200409								
		Material: Plaster	N	A	2 E Wall	throughout	4536	
				B	3 E Wall			
				C	4 N Wall			
				D	6 S Wall			
				E	7 E Wall			
		Material: Grey						
		Material:						
		Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

2



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

Revision date 5/7/2015

Job #:	Material no.		Building:	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
200109	200109		672 Leslie						
02	Material: Duct WRAP Description	White	Y	A	2 E side vent 640/645	1, 8, 9, 10	50 LF		
				B	8 N side vent 644				
				C	9 S side vent 647				
03	Material: Elbow / Boot wrap Description	White	Y	A	S off of Boiler N 648	5	50 LF		
				B	S off of Boiler S 649				
				C	S off of Boiler E 650				
	Material: Description								
	Material: Description								
	Material: Description								
	Material: Description								
	Material: Description								
	Material: Description								

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

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Building:	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
04	Material: Linoleum Description: Tan Blocks		627	N	A	3 E floor 640651	12/15/15	3	180	
05	Material: Linoleum Description: Beige			N	A	3 W floor 653		3	180	
06	Material: Cinder Block Description: Grey			N	A	5 S wall 655		5 ext	864	
07	Material: mortar Description: Grey			N	A	5 S wall 657		5 ext	432 LF	
08	Material: Poured concrete Description: Grey			N	A	5 N floor 659		5	729	
09	Material: Linoleum Description: tan speckled			N	A	9 S floor 660		9	180	
10	Material: Linoleum Description: Beige Back Pattern			N	A	9 E floor 661		8	81	
11	Material: <del>Beige Back Pattern</del> Description: <del>Beige Back Pattern</del>			N	A	8 E floor 663		11	260	
12	Material: <del>Beige Back Pattern</del> Description: <del>Beige Back Pattern</del>			N	A	11 N wall 665		ext	1728	
13	Material: window glaze Description: window glaze			N	A	ext E wall 667		ext	19 units	



# Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Building:	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
200 409			602		leslie	12/15/10			
14	Material: Asphalt Shingles		N	A	ext NW Roof		ext	729	
	Description: Black			B	ext SW Roof		Roof		
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					

2 samples

5

Attachment:

Inspection Procedures

# **Pre-Demolition Environmental Inspection Procedures**

## **HAZARDOUS MATERIALS INSPECTION**

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

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

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

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

## **ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION**

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

### **Asbestos Inspection**

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

### **Sample Collection**

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

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

## **Pre-Demolition Environmental Inspection Procedures**

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

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

### **Laboratory Analysis / Results**

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

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

### **SIGNATURE**

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



Prepared by: \_\_\_\_\_

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051