

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-21-253-020
House No:	1017 S Grand Ave, Lansing, MI 48910
Date Inspected:	12/22/2017
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information

No. Stories	2	Garage	No Garage
Square Footage	1530 SF	Garage Square Footage	NA
Basement Square Footage	1170 SF	Garage Siding	NA
Siding	Vinyl, Wood, Brick	Garage Color	NA
Color	Grey	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-253-020
House No. 1017 S Grand Ave, Lansing, MI 48910
Date Inspected: 12/22/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Heater	1	Room 7
TV, Electronics	6	Room 1, 3, 4, 12
Misc. Items (solvents, cleaners)	2	Room 4, 7
Smoke Detector	4	Room 3, 11, 17
Thermostat	1	Room 2

TIRE(s) REPORT

Material **Quantity & Units** **Location**

None observed above household quantities

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-21-253-020
House No.	1017 S Grand Ave, Lansing, MI 48910
Date Inspected:	12/22/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Plaster with skim	Throughout	7361 SF	YES
2	F	Duct wrap, grey	Throughout	500 SF	YES
3	NF	Tape, white	Room 12, 17	100 SF	No
4	NF	Mud, white	Room 12, 17	100 SF	No
5	NF	Drywall, white	Room 12, 17	465 SF	No
6	NF	Linoleum, tan	Room 4	273 SF	No
7	NF	12x12 Floor tile, tan	Room 4	273 SF	No
8	NF	Mastic, brown	Room 4	273 SF	No
9	NF	Floor tile, tan	Room 5	72 SF	No
10	NF	Mastic, tan	Room 5	72 SF	No
11	NF	Linoleum, brown/black	Room 19	15 SF	No
12	NF	Underlayment, black	Room 1-3	873 SF	No
13	NF	Floor tile, tan	Room 14	70 SF	YES
14	NF	Mastic, yellow	Room 14	70 SF	No
15	NF	Linoleum, beige	Room 14	70 SF	No
16	NF	Concrete, grey	Room 7-9	1170 SF	No
17	NF	Window glaze, white	Exterior	7 windows	No
18	NF	House wrap, tan	Exterior	4860 SF	No
19	NF	Shingle, grey	Exterior	1530 SF	No
20	NF	Ceiling tile, red	Room 2	315 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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Parcel:	33-01-01-21-253-020
House No.	1017 S Grand Ave, Lansing, MI 48910
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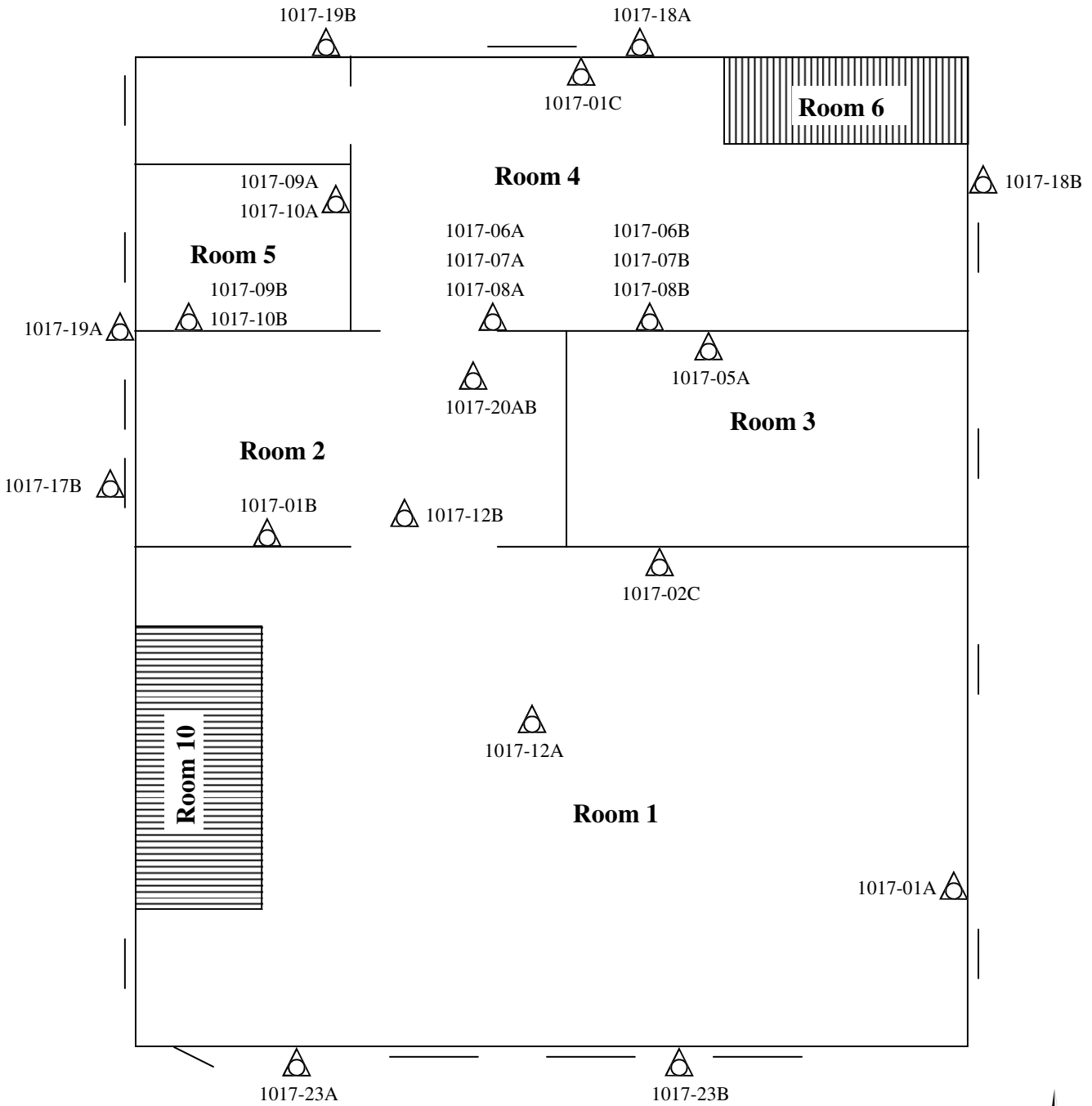
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
21	F	Blown-in-insulation, grey/tan	Room 19	1260 SF	No
22	NF	Stack pipe cement, grey	Room 7	1 SF	No
23	NF	Fiberboard, grey/black	Exterior	300 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:

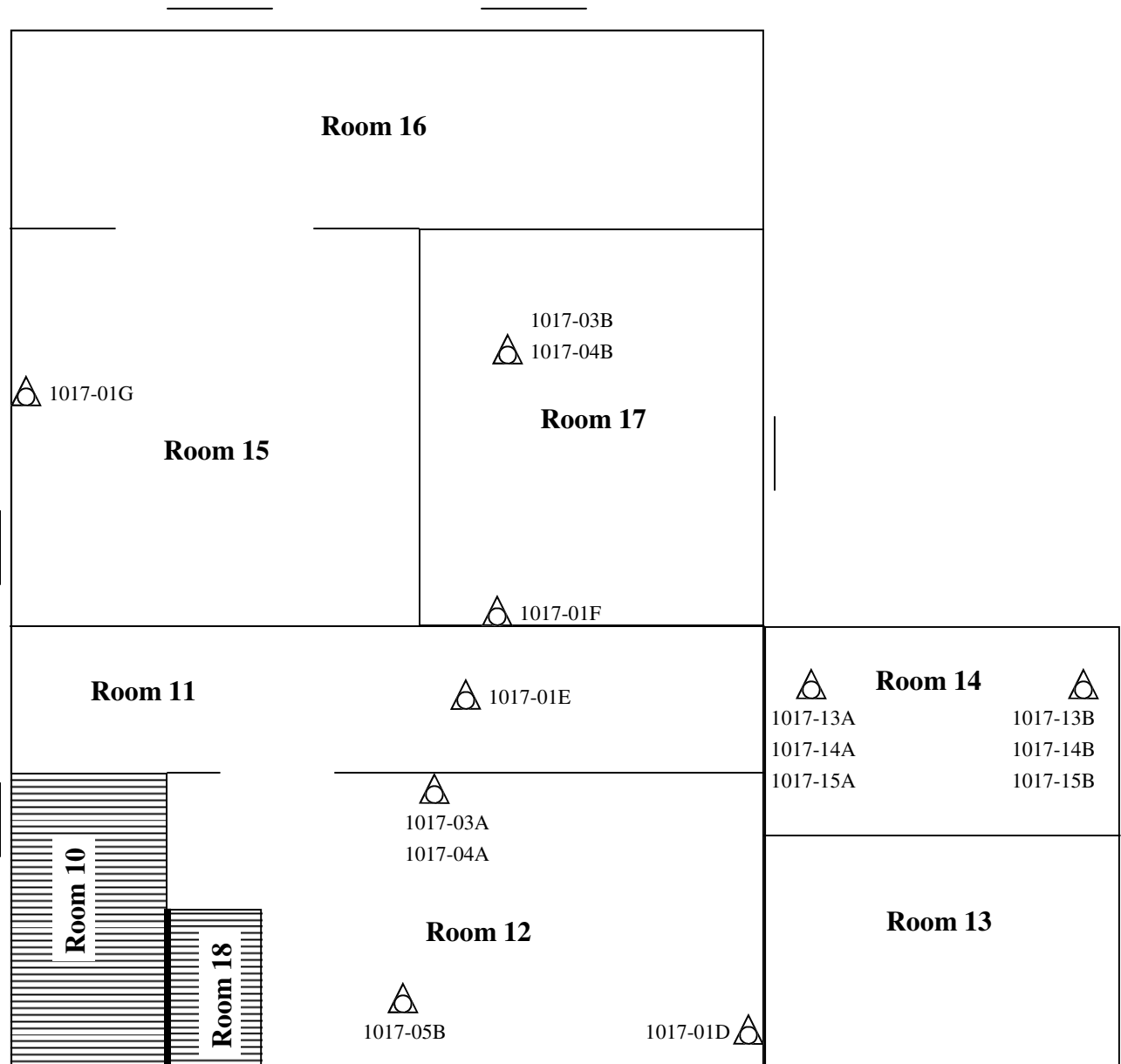
Site Drawing




N

 Sample Location

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

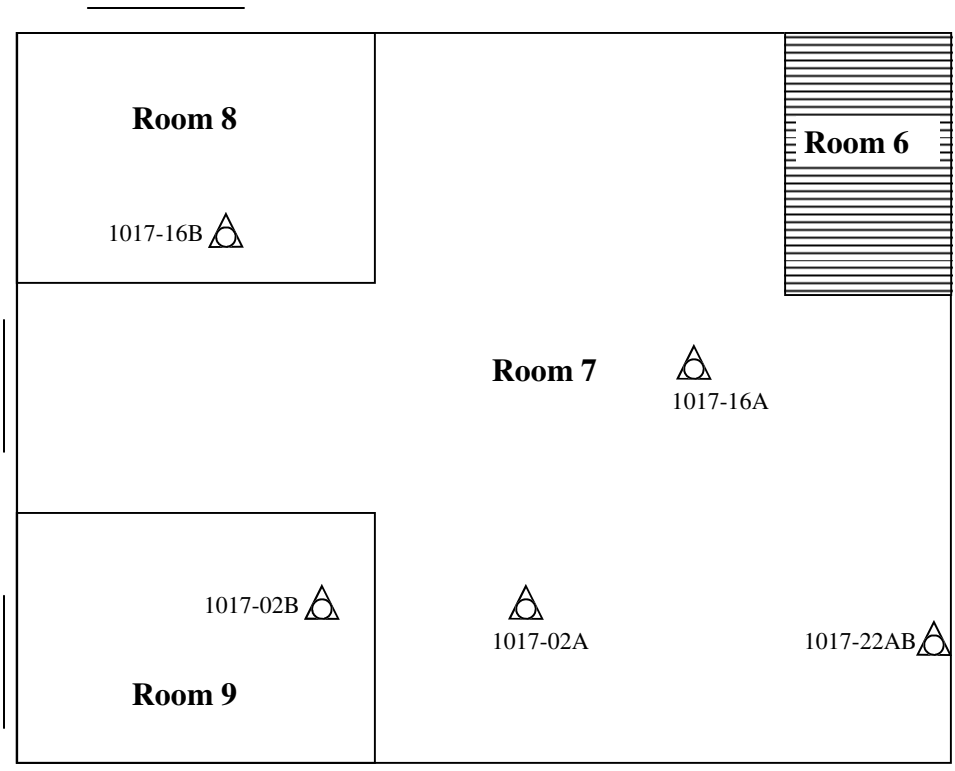


 Sample Location

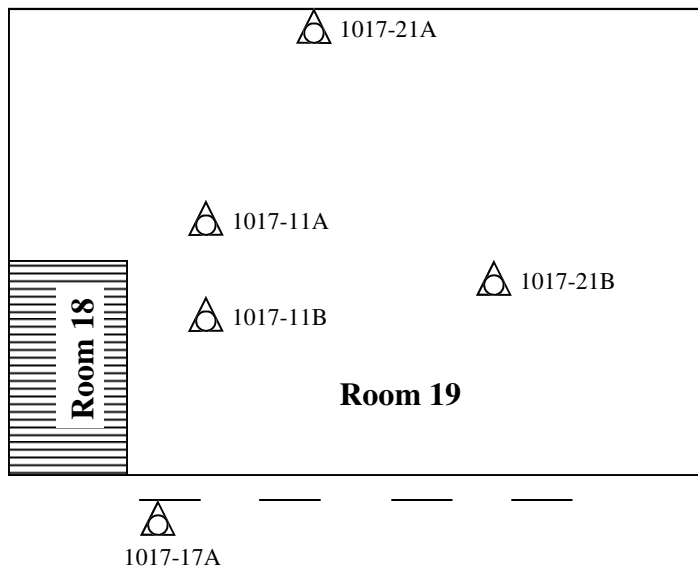
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Basement


33-01-01-21-253-020
1017 S Grand Ave, Lansing, MI 48910
12/22/2017



Attic



N

 Sample Location

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

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-21-253-020
House No. 1017 S Grand Ave, Lansing, MI 48910
Date Inspected: 12/22/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

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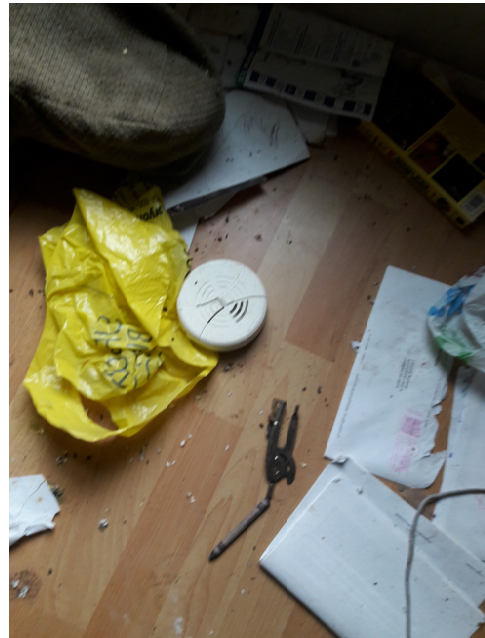
Hot Water Heater



TV , Electronics



Misc. Items (solvents, cleaners)



Smoke Detector

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-21-253-020
House No.	1017 S Grand Ave, Lansing, MI 48910
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Thermostat

Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-21-253-020
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Date Inspected: 12/22/2017



Plaster



Duct Wrap



Floor Tile

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



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

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

Project Location :
1017 S Grand Ave, Lansing, MI

Attention :

Client Project : 33-01-01-21-253-020

ETC Job : 199851

Report Date : 12/27/2017

Login #	Sample ID	Work Requested	Completed
643224	01A	Asbestos Analysis	12/27/2017
643225	01B	Asbestos Analysis	12/27/2017
643226	01C	Asbestos Analysis	12/27/2017
643227	01D	Asbestos Analysis	12/27/2017
643228	01E	Asbestos Analysis	12/27/2017
643229	01F	Asbestos Analysis	12/27/2017
643230	01G	Asbestos Analysis	12/27/2017
643231	02A	Asbestos Analysis	12/27/2017
643232	02B	Asbestos Analysis	12/27/2017
643233	02C	Asbestos Analysis	12/27/2017
643234	03A	Asbestos Analysis	12/27/2017
643235	03B	Asbestos Analysis	12/27/2017
643236	04A	Asbestos Analysis	12/27/2017
643237	04B	Asbestos Analysis	12/27/2017
643238	05A	Asbestos Analysis	12/27/2017
643239	05B	Asbestos Analysis	12/27/2017
643240	06A	Asbestos Analysis	12/27/2017
643241	06B	Asbestos Analysis	12/27/2017
643242	07A	Asbestos Analysis	12/27/2017
643243	07B	Asbestos Analysis	12/27/2017

Login #	Sample ID	Work Requested	Completed
643244	08A	Asbestos Analysis	12/27/2017
643245	08B	Asbestos Analysis	12/27/2017
643246	09A	Asbestos Analysis	12/27/2017
643247	09B	Asbestos Analysis	12/27/2017
643248	10A	Asbestos Analysis	12/27/2017
643249	10B	Asbestos Analysis	12/27/2017
643250	11A	Asbestos Analysis	12/27/2017
643251	11B	Asbestos Analysis	12/27/2017
643252	12A	Asbestos Analysis	12/27/2017
643253	12B	Asbestos Analysis	12/27/2017
643254	13A	Asbestos Analysis	12/27/2017
643255	13B	Asbestos Analysis	12/27/2017
643256	14A	Asbestos Analysis	12/27/2017
643257	14B	Asbestos Analysis	12/27/2017
643258	15A	Asbestos Analysis	12/27/2017
643259	15B	Asbestos Analysis	12/27/2017
643260	16A	Asbestos Analysis	12/27/2017
643261	16B	Asbestos Analysis	12/27/2017
643262	17A	Asbestos Analysis	12/27/2017
643263	17B	Asbestos Analysis	12/27/2017
643264	18A	Asbestos Analysis	12/27/2017
643265	18B	Asbestos Analysis	12/27/2017
643266	19A	Asbestos Analysis	12/27/2017
643267	19B	Asbestos Analysis	12/27/2017
643268	20A	Asbestos Analysis	12/27/2017
643269	20B	Asbestos Analysis	12/27/2017
643270	21A	Asbestos Analysis	12/27/2017

Login #	Sample ID	Work Requested	Completed
643271	21B	Asbestos Analysis	12/27/2017
643272	22A	Asbestos Analysis	12/27/2017
643273	22B	Asbestos Analysis	12/27/2017
643274	23A	Asbestos Analysis	12/27/2017
643275	23B	Asbestos Analysis	12/27/2017

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

ETC Job : 199851
Client Project : 33-01-01-21-253-020
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Location :
1017 S Grand Ave, Lansing, MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643224 01A RM1 W Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2.5% Cellulose	96% Other	PC 1.5% Chrysotile
643224 01A RM1 W Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643225 01B RM2 N Wall Layer-1 Analyst: Scott Larabell		Not Analyzed			
643225 01B RM2 N Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643226 01C RM4 SE Wall Layer-1 Analyst: Scott Larabell		Not Analyzed			
643226 01C RM4 SE Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643227 01D RM12 SW Wall Layer-1 Analyst: Scott Larabell		Not Analyzed			
643227 01D RM12 SW Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1017 S Grand Ave, Lansing, MI

ETC Job : 199851
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Date Collected : 12/22/2017
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Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643228 01E RM11 Ceiling Center Layer-1 Analyst: Scott Larabell		Not Analyzed			
643228 01E RM11 Ceiling Center Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643229 01F RM17 Wall N Layer-1 Analyst: Scott Larabell		Not Analyzed			
643229 01F RM17 Wall N Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643230 01G RM15 Wall NE Layer-1 Analyst: Scott Larabell		Not Analyzed			
643230 01G RM15 Wall NE Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643231 02A RM7 Duct NW Analyst: Scott Larabell	Duct Wrap	Grey Fibrous Homogenous	10% Cellulose	60% Other	30% Chrysotile
643232 02B RM9 Duct Center Ceiling Analyst: Scott Larabell		Not Analyzed			

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643233 02C RM1 SE Duct Analyst: Scott Larabell		Not Analyzed			
643234 03A RM12 Ceiling SE Analyst: Scott Larabell	Tape	White Fibrous Homogenous	75% Cellulose	25% Other	None Detected
643235 03B RM17 Ceiling Center Analyst: Scott Larabell	Tape	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643236 04A RM12 Ceiling SE Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643237 04B RM17 Ceiling Center Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643238 05A RM3 SE Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643239 05B RM12 Ceiling Center Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643240 06A RM4 NW Floor Analyst: Scott Larabell	Linoleum	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643241 06B RM4 Center Floor Analyst: Scott Larabell	Linoleum	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643242 07A RM4 NW Floor Analyst: Scott Larabell	12x12 Floor Tile	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643243 07B RM4 Center Floor Analyst: Scott Larabell	12x12 Floor Tile	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643244 08A RM4 NW Floor Analyst: Scott Larabell	Mastic	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643245 08B RM4 Center Floor Analyst: Scott Larabell	Mastic	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643246 09A SW Floor RM5 Analyst: Scott Larabell	Floor Tile	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643247 09B Center Floor RM5 Analyst: Scott Larabell	Floor Tile	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643248 10A SW Floor RM5 Analyst: Scott Larabell	Mastic	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643249 10B Center Floor RM5 Analyst: Scott Larabell	Mastic	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643250 11A NE Floor RM19 Analyst: Scott Larabell	Linoleum	Brown/Black Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
643251 11B NE Floor RM19 Analyst: Scott Larabell	Linoleum	Brown/Black Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
643252 12A RM1 Center Floor Analyst: Scott Larabell	Underlayment	Black Fibrous Homogenous	85% Cellulose	15% Other	None Detected
643253 12B RM2 NW Floor Analyst: Scott Larabell	Underlayment	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643254 13A NE Floor RM14 Analyst: Scott Larabell	Floor Tile	Tan Non-Fibrous Homogenous	20% Cellulose	65% Other	15% Chrysotile
643255 13B Center Floor RM14 Analyst: Scott Larabell		Not Analyzed			
643256 14A NE Floor RM14 Analyst: Scott Larabell	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643257 14B Center Floor RM14 Analyst: Scott Larabell	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643258 15A NE Floor RM14 Analyst: Scott Larabell	Linoleum	Beige Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643259 15B Center Floor RM14 Analyst: Scott Larabell	Linoleum	Beige Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643260 16A RM7 Center Floor Analyst: Scott Larabell	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643261 16B RM8 Center Floor Analyst: Scott Larabell	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643262 17A Attic Ext Window NW Analyst: Scott Larabell	Window Glaze	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643263 17B NE Ext Window Analyst: Scott Larabell	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643264 18A SE Ext House Wall Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	85% Cellulose	15% Other	None Detected
643265 18B SW Ext House Wall Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	85% Cellulose	15% Other	None Detected
643266 19A SE Roof Ext House Analyst: Scott Larabell	Shingle	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643267 19B NE Roof Ext House Analyst: Scott Larabell	Shingle	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1017 S Grand Ave, Lansing, MI

ETC Job : 199851
Client Project : 33-01-01-21-253-020
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643268 20A RM2 Center Ceiling Analyst: Scott Larabell	Ceiling Tile	Red Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643269 20B RM2 SW Ceiling Analyst: Scott Larabell	Ceiling Tile	Red Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643270 21A RM19 SE Floor Analyst: Scott Larabell	Blown-in Insulation	Grey/Tan Fibrous Homogenous	75% Cellulose	25% Other	None Detected
643271 21B RM19 Center Floor Analyst: Scott Larabell	Blown-in Insulation	Grey/Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643272 22A SW Wall RM7 Analyst: Scott Larabell	Stack Pipe Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643273 22B SW Wall RM7 Analyst: Scott Larabell	Stack Pipe Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643274 23A Ext House NW Wall Analyst: Scott Larabell	Fiberboard	Grey/Black Fibrous Homogenous	85% Cellulose	15% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
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Location :
 1017 S Grand Ave, Lansing, MI

ETC Job : 199851
Client Project : 33-01-01-21-253-020
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643275 23B Ext House NW Wall Analyst: Scott Larabell	Fiberboard	Grey/Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Scott Larabell

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

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

ENVIRONMENTAL TESTING LABORATORIES, INC

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

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199851

Client: ETC	Contact: Phone: (734) 955-6600	Project Location/name: 1017 S Grand Ave, Lansing MI
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Fax: (734) 955-6604 E-mail: results@2etl.com	Client Project #:
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Date Sampled: 12/22/17

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
	01A-G		
	02A-C		
	03A-B		
	↓		
	23A-B		

	Date	Time
Relinquished (Name/Organization):	12/22/17	5:30 am/pm
Received (Name/ETL):	12/26/17	am/pm
Stereoscopical Analysis (Name/ETL):	12-26-17	am/pm
Sample Login (Name/ETL):	12/26/17	am/pm
Analysis (Name/ETL):	12-26-17	am/pm
QA/QC Review (Name/ETL):	12.27.17	am/pm

Special Instructions: please point count 2? or less	Remarks:
---	-----------------

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

Revision date 5/7/2015

Job #:	Building: 1017 S Grand Ave		Date: 12/22/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		
02	Material: Duct wrap Description: grey	F	A	Rm 7 duct NW 642231	500	18,
			B	Rm 9 duct center ceiling 233	100	30
			C	Rm 1 SE duct 233		
	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: 1017S Grand Ave		Date: 12/22/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location		
03	Material: Tape Description: white	NF	A	Rm 12 ceiling SE 6432384	100 SF	41
04	Material: Mud Description: white	NF	B	Rm 17 ceiling center 235	100 SF	41
05	Material: Drywall Description: white	NF	A	Same as 03A		
06	Material: Linoleum Description: tan	NF	B	Same as 03B		
07	Material: 12x12 Floor Tile Description: tan	NF	A	Rm 3 SE wall		
08	Material: Mastic Description: brown	NF	B	Rm 12 ceiling center 239		
09	Material: Floor Tile Description: tan	NF	A	Rm 4 NW floor 240		
10	Material: Mastic Description: tan	NF	B	Rm 4 center floor 241	4	45
11	Material: Linoleum Description: brown/black	NF	A	Same as 06A		
12	Material: Underlayment Description: black	NF	B	Same as 06B		
			A	Same as 06A		
			B	Same as 06B		
			A	Same as 06A		
			B	Same as 06B		
			A	SW floor Rm 5 246		
			B	Center floor Rm 5 247		
			A	Same as 09A		
			B	Same as 09B		
			A	NE floor Rm 19 250		
			B	NE floor Rm 19 251		
			A	Rm 1 Center floor 252		
			B	Rm 2 NW floor 253		
				ATTN		
				19		
				1,2,3	873 SF	37

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building: 1017 S Grand Ave		Sample Letter	Friable (F) / Non-Friable (NF)	Sample Location	Date: 12/12/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
			199851								
13	Material:	Floor Tile	NF	A	NF	RM 14	14	70 SK	48		
	Description:	tan									
14	Material:	Mastic	NF	A	NF	Same as 13A	14	70 SK	48		
	Description:	yellow									
15	Material:	Linooleum	NF	A	NF	Same as 13B	14	70 SK	48		
	Description:	beige									
16	Material:	Concrete	NF	A	NF	RM 7 center floor	7, 8, 9	110 SK	13		
	Description:	gray									
17	Material:	Window Glaze	NF	A	NF	Attrc ext window	7, 8, 9	7 JNTS	40		
	Description:	white									
18	Material:	House wrap	NF	A	NF	RM 6 ext window	7, 8, 9	4800 SF	43		
	Description:	tan									
19	Material:	Shingle	NF	A	NF	RM 2 roof	7, 8, 9	1530 SF	44		
	Description:	gray									
20	Material:	Ceiling Tile	NF	A	NF	RM 2 center ceiling	7, 8, 9	215 SF	35		
	Description:	Red									
21	Material:	Blown In Ins	F	A	F	RM 19 SE floor	Attrc	200 SK	5		
	Description:	gray/tan									
22	Material:	Stack pipe cement	NF	A	NF	RM 7 SW wall	7	15F	17		
	Description:	gray									

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: 1017 S Grand Ave		Date: 12/22/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		
33	Material: Fiberboard	NF	A	Ext house NW wall (4132)	300 SF	49
	Description: grey/black		B	Ext house NW wall (275)		
	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			

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

Laboratory Analysis / Results

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

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

SIGNATURE

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



Prepared by: _____

Heather Davis, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-48908

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-21-380-171
House No:	213 W Barnes Ave, Lansing, MI 48910
Date Inspected:	12/20/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1710 SF	Garage Square Footage	NA
Basement Square Footage	600 SF	Garage Siding	NA
Siding	Vinyl	Garage Color	NA
Color	Light Blue	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-380-171
House No. 213 W Barnes Ave, Lansing, MI 48910
Date Inspected: 12/20/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Tank	1	Room 10
Refrigerators	1	Room 7
Misc. Items (solvents, cleaners)	6	Room 9, 11, 20
Paint Cans	3 (5 gallon)	Room 2, 11
Thermostats	1	Room 5

TIRE(s) REPORT

Material **Quantity & Units** **Location**

None observed above household quantities

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-380-171
 House No. 213 W Barnes Ave, Lansing, MI 48910
 Date Inspected: 12/20/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Plaster, grey with skim coat	Room 13, 15	328 SF	No
2	NF	Texture, white	Room 5	270 SF	No
3	F	Duct wrap, grey	Throughout	756 SF	YES
4	NF	Drywall, white	Throughout	9916 SF	No
5	NF	Mud, white	Throughout	5000 SF	No
6	NF	Tape, white	Throughout	195 SF	No
7	NF	Ceiling tile, white	Room 6	195 SF	No
8	NF	12x12 Peel and stick, beige	Room 7	116 SF	No
9	NF	Linoleum, cream	Rooms 3, 15	180 SF	No
10	NF	6x6 Tile, red	Room 14	180 SF	No
11	F	Blown in insulation, tan	Attic	1080 SF	No
12	NF	Linoleum, light purple	Room 20	137 SF	No
13	NF	Wall linoleum, orange	Room 12	63 SF	YES
14	NF	Fiberboard, brown	Room 11	147 SF	No
15	NF	Inner cement wall, grey	Rooms 10, 11, 12	1092 SF	No
16	NF	Mortar, grey	Rooms 10, 11, 12	900 SF	No
17	NF	Concrete floor, grey	Rooms 10, 11, 12	600 SF	No
18	NF	Outer cement wall, grey	Rooms 10, 11, 12	1092 SF	No
19	NF	Shingle, black	Exterior (house)	1800 SF	No
20	NF	Window glaze, white	Exterior	11 windows	YES
21	NF	Brick, grey	Room 10 (chimney)	80 SF	No

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

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-380-171
 House No. 213 W Barnes Ave, Lansing, MI 48910
 Date Inspected: 12/20/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
22	NF	Stack cement, grey	Room 10 (chimney)	80 SF	No
23	NF	House wrap, tan	Exterior	6264 SF	No
24	NF	Shingle, black	Exterior (lean too)	792 SF	No
25	NF	Cinderblock, grey	Room 21	228 SF	No
26	NF	Mortar, grey	Room 21	200 SF	No
27	NF	Concrete, grey	Room 21	792 SF	No

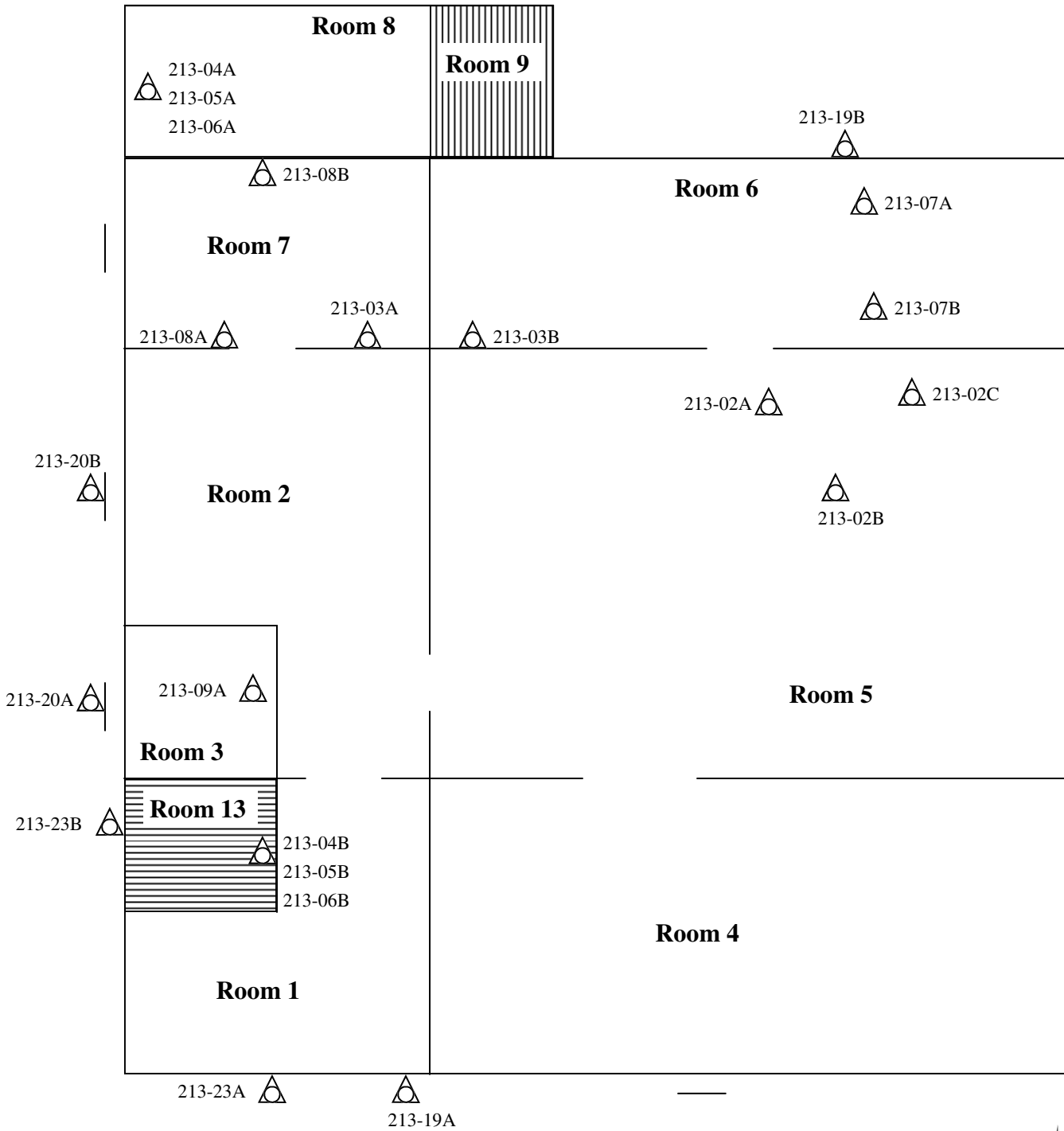
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.


Attachment:

Site Drawing

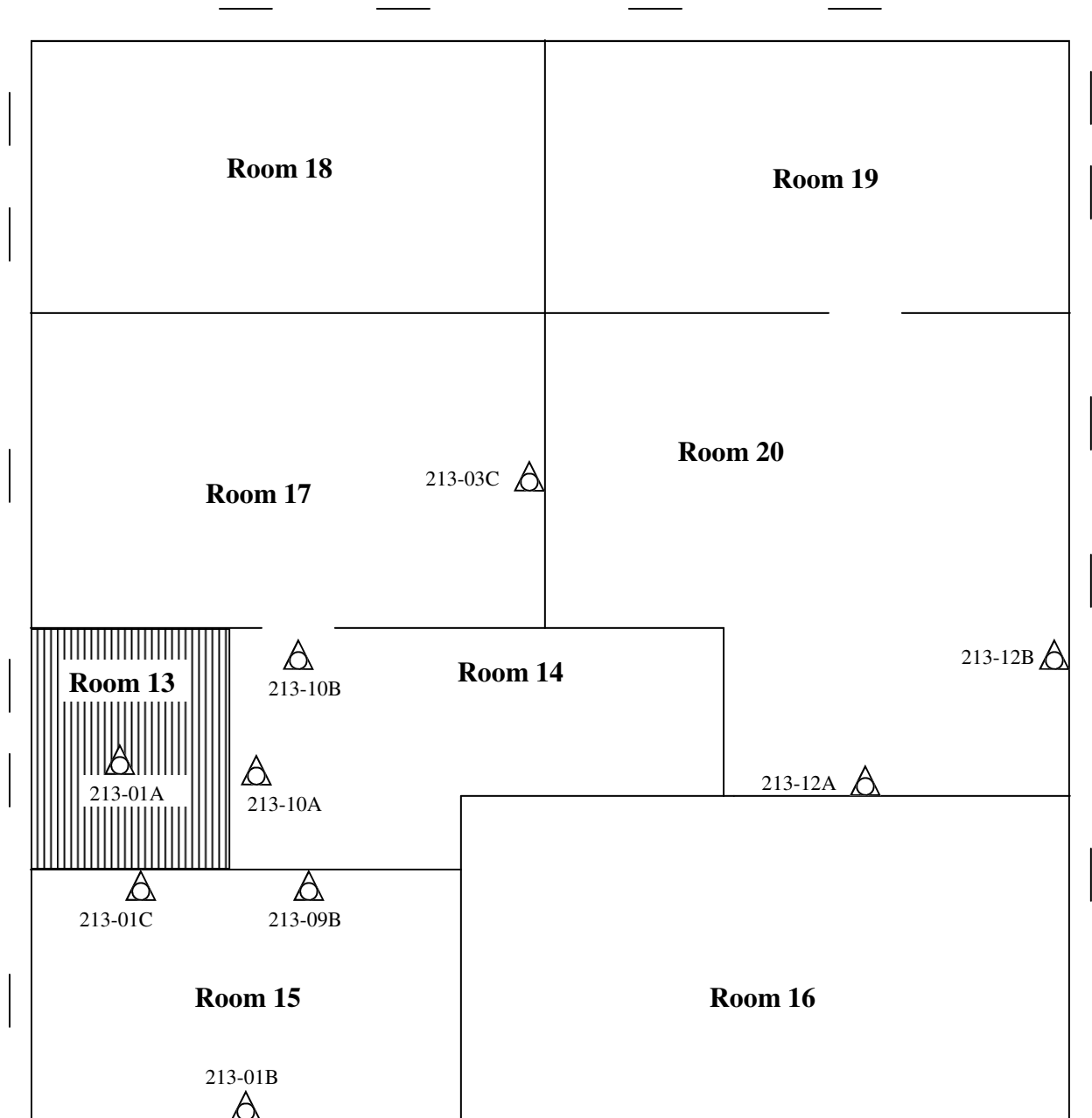
1st floor

33-01-01-21-380-171
213 W Barnes Ave, Lansing, MI 48910
12/20/2017



 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.

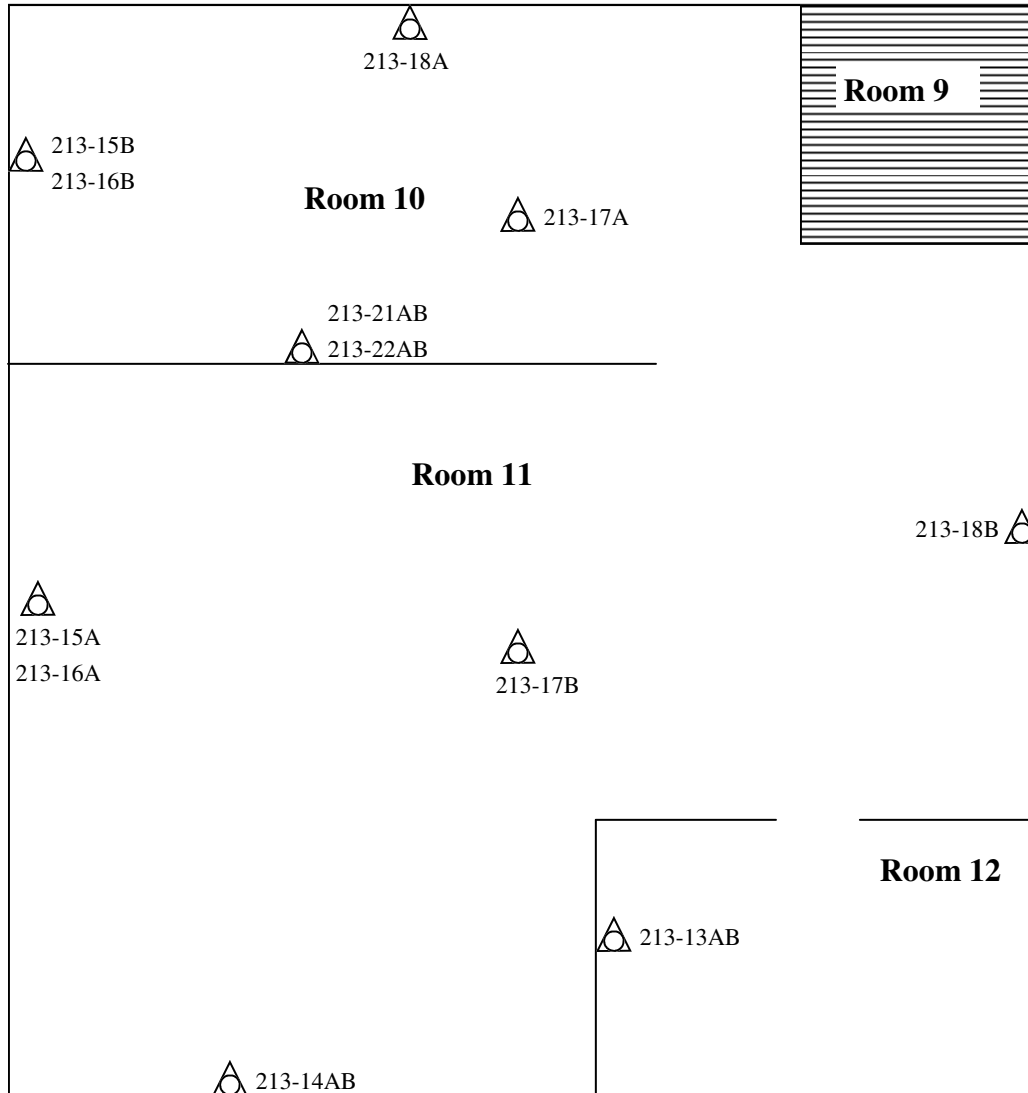


 Sample Location

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

Basement

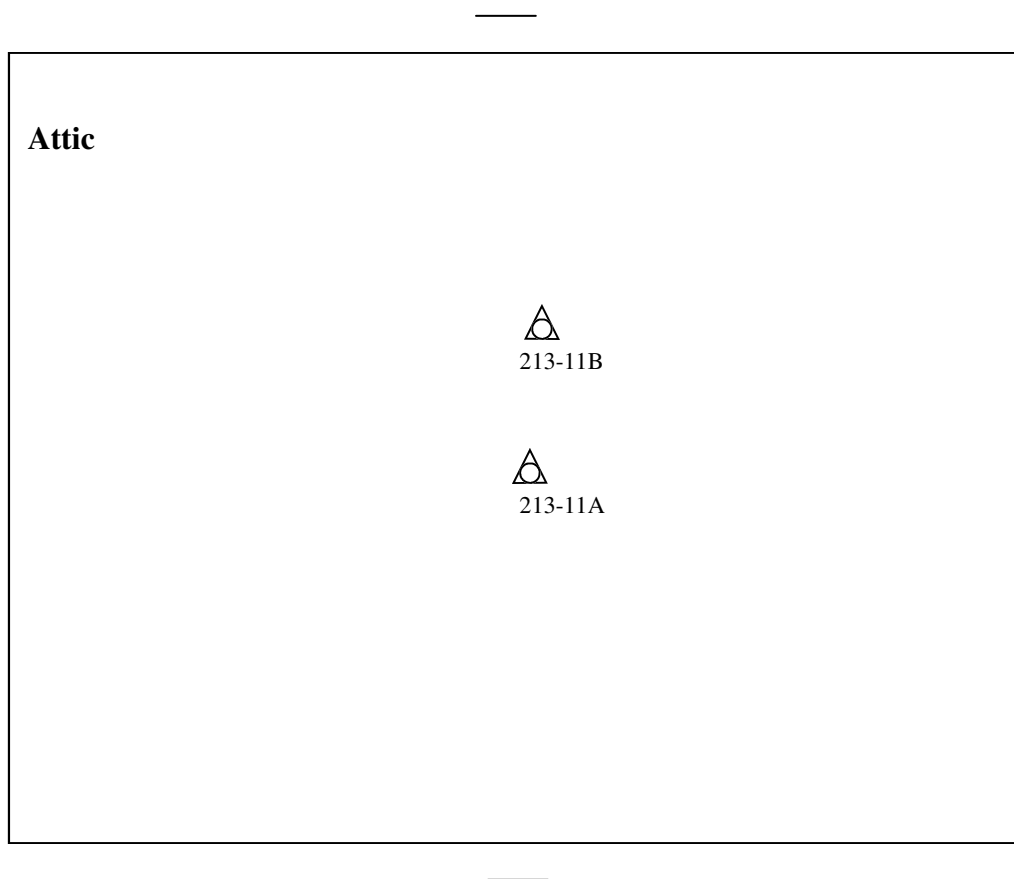
33-01-01-21-380-171
213 W Barnes Ave, Lansing, MI 48910
12/20/2017



 Sample Location

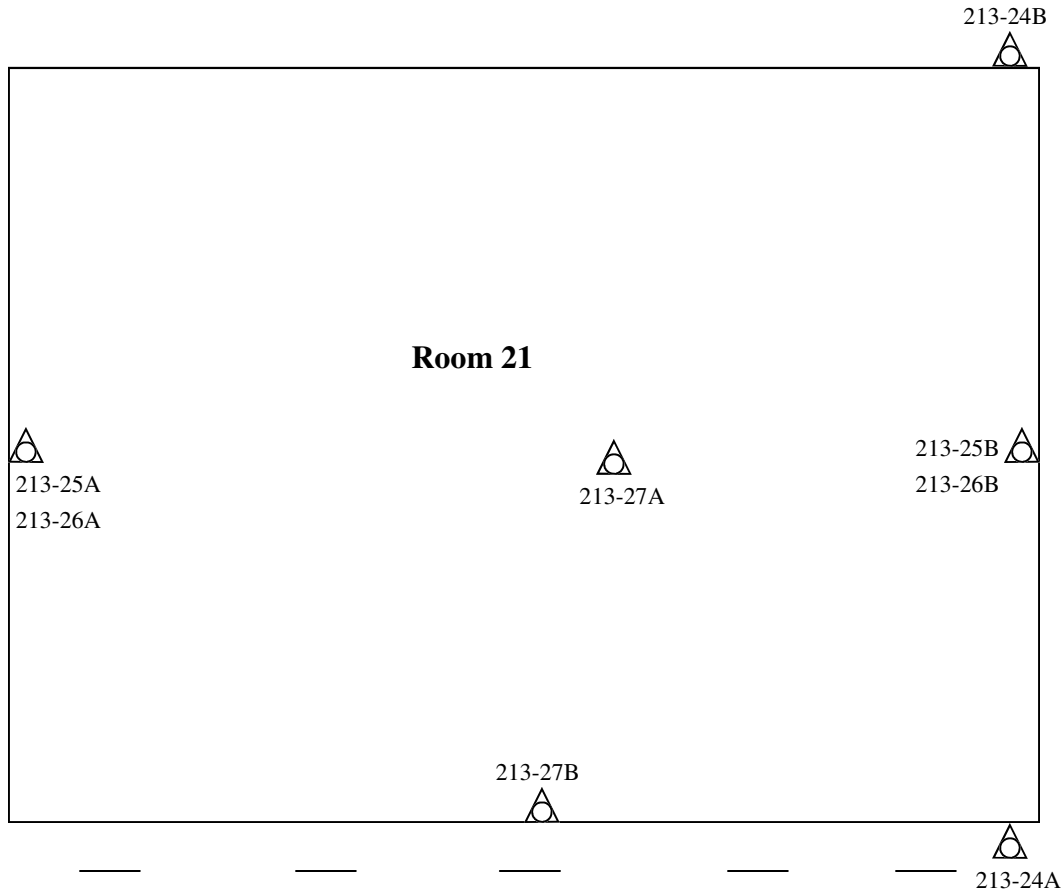
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Ingham County Land Bank
199852



 Sample Location

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



 Sample Location

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

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-21-380-171
House No. 213 W Barnes Ave, Lansing, MI 48910
Date Inspected: 12/20/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-01-21-380-171
House No.	213 W Barnes Ave, Lansing, MI 48910
Date Inspected:	12/20/2017



Lean Too

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-21-380-171
House No. 213 W Barnes Ave, Lansing, MI 48910
Date Inspected: 12/20/2017



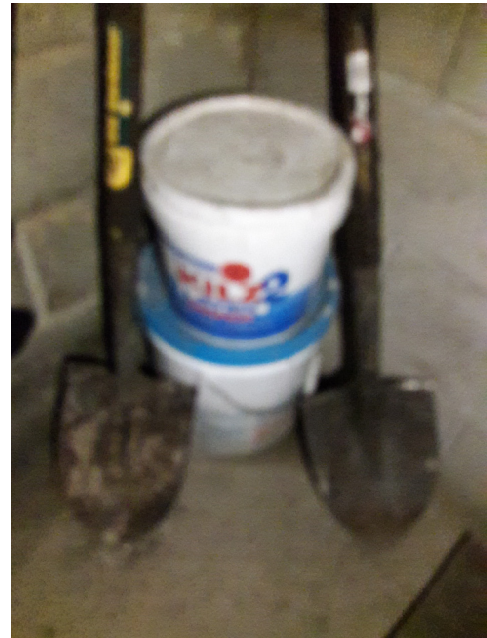
Hot Water Tank



Refrigerators



Misc. Items (solvents, cleaners)



Paint Cans

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-21-380-171
House No.	213 W Barnes Ave, Lansing, MI 48910
Date Inspected:	12/20/2017



Thermostats

Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-21-380-171
House No. 213 W Barnes Ave, Lansing, MI 48910
Date Inspected: 12/20/2017



Duct wrap, grey



Wall linoleum, orange



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

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

Project Location :
213 W Barnes Ave

Attention :

Client Project : 33-01-01-21-380-171

ETC Job : 199852
Report Date : 12/26/2017

Login #	Sample ID	Work Requested	Completed
643011	01A	Asbestos Analysis	12/26/2017
643012	01B	Asbestos Analysis	12/26/2017
643013	01C	Asbestos Analysis	12/26/2017
643014	02A	Asbestos Analysis	12/26/2017
643015	02B	Asbestos Analysis	12/26/2017
643016	02C	Asbestos Analysis	12/26/2017
643017	03A	Asbestos Analysis	12/26/2017
643018	03B	Asbestos Analysis	12/26/2017
643019	03C	Asbestos Analysis	12/26/2017
643020	04A	Asbestos Analysis	12/26/2017
643021	04B	Asbestos Analysis	12/26/2017
643022	05A	Asbestos Analysis	12/26/2017
643023	05B	Asbestos Analysis	12/26/2017
643024	06A	Asbestos Analysis	12/26/2017
643025	06B	Asbestos Analysis	12/26/2017
643026	07A	Asbestos Analysis	12/26/2017
643027	07B	Asbestos Analysis	12/26/2017
643028	08A	Asbestos Analysis	12/26/2017
643029	08B	Asbestos Analysis	12/26/2017
643030	09A	Asbestos Analysis	12/26/2017

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
643031	09B	Asbestos Analysis	12/26/2017
643032	10A	Asbestos Analysis	12/26/2017
643033	10B	Asbestos Analysis	12/26/2017
643034	11A	Asbestos Analysis	12/26/2017
643035	11B	Asbestos Analysis	12/26/2017
643036	12A	Asbestos Analysis	12/26/2017
643037	12B	Asbestos Analysis	12/26/2017
643038	13A	Asbestos Analysis	12/26/2017
643039	13B	Asbestos Analysis	12/26/2017
643040	14A	Asbestos Analysis	12/26/2017
643041	14B	Asbestos Analysis	12/26/2017
643042	15A	Asbestos Analysis	12/26/2017
643043	15B	Asbestos Analysis	12/26/2017
643044	16A	Asbestos Analysis	12/26/2017
643045	16B	Asbestos Analysis	12/26/2017
643046	17A	Asbestos Analysis	12/26/2017
643047	17B	Asbestos Analysis	12/26/2017
643048	18A	Asbestos Analysis	12/26/2017
643049	18B	Asbestos Analysis	12/26/2017
643050	19A	Asbestos Analysis	12/26/2017
643051	19B	Asbestos Analysis	12/26/2017
643052	20A	Asbestos Analysis	12/26/2017
643053	20B	Asbestos Analysis	12/26/2017
643054	21A	Asbestos Analysis	12/26/2017
643055	21B	Asbestos Analysis	12/26/2017
643056	22A	Asbestos Analysis	12/26/2017
643057	22B	Asbestos Analysis	12/26/2017

Login #	Sample ID	Work Requested	Completed
643058	23A	Asbestos Analysis	12/26/2017
643059	23B	Asbestos Analysis	12/26/2017
643060	24A	Asbestos Analysis	12/26/2017
643061	24B	Asbestos Analysis	12/26/2017
643062	25A	Asbestos Analysis	12/26/2017
643063	25B	Asbestos Analysis	12/26/2017
643064	26A	Asbestos Analysis	12/26/2017
643065	26B	Asbestos Analysis	12/26/2017
643066	27A	Asbestos Analysis	12/26/2017
643067	27B	Asbestos Analysis	12/26/2017

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 213 W Barnes Ave

ETC Job : 199852

Client Project : 33-01-01-21-380-171

Date Collected : 12/20/2017

Date Received : 12/22/2017

Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643011 01A RM13 Ceiling Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643011 01A RM13 Ceiling Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643012 01B RM15 N Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643012 01B RM15 N Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643013 01C RM15 S Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643013 01C RM15 S Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643014 02A S Ceiling RM5 Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643015 02B Center Ceiling RM5 Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 213 W Barnes Ave

ETC Job : 199852
Client Project : 33-01-01-21-380-171
Date Collected : 12/20/2017
Date Received : 12/22/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643016 02C SW Ceiling RM5 Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643017 03A RM7 N Duct Analyst: Scott Larabell	Duct Wrap	Grey Fibrous Homogenous	20% Cellulose	50% Other	30% Chrysotile
643018 03B RM6 E Duct Analyst: Scott Larabell		Not Analyzed			
643019 03C RM17 W Duct Analyst: Scott Larabell		Not Analyzed			
643020 04A RM8 Center Ceiling Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643021 04B RM13 W Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643022 05A RM8 Center Ceiling Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 213 W Barnes Ave

ETC Job : 199852
Client Project : 33-01-01-21-380-171
Date Collected : 12/20/2017
Date Received : 12/22/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643023 05B RM13 W Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643024 06A RM8 Center Ceiling Analyst: Scott Larabell	Tape	White Fibrous Homogenous	5% Cellulose 80% Fiberglass	15% Other	None Detected
643025 06B RM13 W Wall Analyst: Scott Larabell	Tape	White Fibrous Homogenous	3% Cellulose 80% Fiberglass	17% Other	None Detected
643026 07A RM6 Center Ceiling Analyst: Scott Larabell	Ceiling Tile	White Fibrous Homogenous	85% Cellulose	15% Other	None Detected
643027 07B RM6 N Ceiling Analyst: Scott Larabell	Ceiling Tile	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643028 08A N Floor RM7 Analyst: Scott Larabell	12x12 Peel and Stick	Beige Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
643029 08B S Floor RM7 Analyst: Scott Larabell	12x12 Peel and Stick	Beige Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 213 W Barnes Ave

ETC Job : 199852
Client Project : 33-01-01-21-380-171
Date Collected : 12/20/2017
Date Received : 12/22/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643030 09A RM3 W Floor Analyst: Scott Larabell	Linoleum	Cream Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
643031 09B RM15 S Floor Analyst: Scott Larabell	Linoleum	Cream Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
643032 10A RM14 E Floor Analyst: Scott Larabell	6x6 Tile	Red Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643033 10B RM14 S Floor Analyst: Scott Larabell	6x6 Tile	Red Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643034 11A Attic Center Floor Analyst: Scott Larabell	Blown-In Insulation	Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643035 11B Attic Center Floor Analyst: Scott Larabell	Blown-In Insulation	Tan Fibrous Homogenous	85% Cellulose	15% Other	None Detected
643036 12A RM20 N Floor Analyst: Scott Larabell	Linoleum	Light Purple Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 213 W Barnes Ave

ETC Job : 199852
Client Project : 33-01-01-21-380-171
Date Collected : 12/20/2017
Date Received : 12/22/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643037 12B RM20 W Floor Analyst: Scott Larabell	Linoleum	Light Purple Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
643038 13A RM12 E Wall Analyst: Scott Larabell	Wall Linoleum	Orange Non-Fibrous Homogenous	20% Cellulose	65% Other	15% Chrysotile
643039 13B RM12 E Wall Analyst: Scott Larabell		Not Analyzed			
643040 14A RM11 N Wall Analyst: Scott Larabell	Fiberboard	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643041 14B RM11 N Wall Analyst: Scott Larabell	Fiberboard	Brown Fibrous Homogenous	75% Cellulose	25% Other	None Detected
643042 15A RM11 E Wall Analyst: Scott Larabell	Cement Wall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643043 15B RM10 E Wall Analyst: Scott Larabell	Cement Wall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 213 W Barnes Ave

ETC Job : 199852
Client Project : 33-01-01-21-380-171
Date Collected : 12/20/2017
Date Received : 12/22/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643044 16A RM11 E Wall Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643045 16B RM10 E Wall Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643046 17A RM10 Center Floor Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643047 17B RM11 Center Floor Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643048 18A RM10 S Wall Analyst: Scott Larabell	Cement Wall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643049 18B RM11 W Wall Analyst: Scott Larabell	Cement Wall	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643050 19A N Roof Ext House Analyst: Scott Larabell	Shingle	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 :
 213 W Barnes Ave

ETC Job : 199852
Client Project : 33-01-01-21-380-171
Date Collected : 12/20/2017
Date Received : 12/22/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643051 19B S Roof Ext House Analyst: Scott Larabell	Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643052 20A Ext Window E Analyst: Scott Larabell	Window Glaze	Red Non-Fibrous Homogenous	2.5% Cellulose	95.5% Other	PC 2% Chrysotile
643053 20B Ext Window E Analyst: Scott Larabell		Not Analyzed			
643054 21A RM10 Chimney Analyst: Scott Larabell	Brick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643055 21B RM10 Chimney Analyst: Scott Larabell	Brick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643056 22A RM10 Chimney Analyst: Scott Larabell	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643057 22B RM10 Chimney Analyst: Scott Larabell	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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 Romulus, MI 48174

Location :
 213 W Barnes Ave

ETC Job : 199852
Client Project : 33-01-01-21-380-171
Date Collected : 12/20/2017
Date Received : 12/22/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643058 23A N Wall Ext House Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	85% Cellulose	15% Other	None Detected
643059 23B E Wall Ext House Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643060 24A RM21 Ext Roof N Analyst: Scott Larabell	Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643061 24B RM21 Ext Roof S Analyst: Scott Larabell	Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643062 25A E Wall RM21 Analyst: Scott Larabell	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643063 25B W Wall RM21 Analyst: Scott Larabell	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643064 26A E Wall RM21 Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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 Romulus, MI 48174

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 213 W Barnes Ave

ETC Job : 199852
Client Project : 33-01-01-21-380-171
Date Collected : 12/20/2017
Date Received : 12/22/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643065 26B W Wall RM21 Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643066 27A Center Floor RM21 Analyst: Scott Larabell	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643067 27B N Floor RM21 Analyst: Scott Larabell	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Scott Larabell

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

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ENVIRONMENTAL TESTING LABORATORIES, INC

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

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199852

Client: ETC	Contact:	Project Location/name: 213 Barnes AVE
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	
	Fax: (734) 955-6604	
E-mail: results@2etl.com		Client Project #: 199852
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Date Sampled: 12/20/17

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

PLM Instructions
 (Check all that apply)

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

* Additional charge and turnaround may be required

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

	Date	Time
Relinquished (Name/Organization): <i>E. J. Wilton</i>	12/20/17	am/pm
Received (Name/ETL): <i>Brittany Walls</i>	12/22/17	12 am/pm
Stereoscopical Analysis (Name/ETL): <i>Brittany Walls</i>	12-26-17	am/pm
Sample Login (Name/ETL): <i>Brittany Walls</i>	12/22/17	am/pm
Analysis (Name/ETL): <i>Brittany Walls</i>	12-26-17	am/pm
QA/QC Review (Name/ETL): <i>Brittany Walls</i>	12/26/17	am/pm

Special Instructions: Please count anything less than 3%.

Remarks:

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building: 213 W Barnes Ave			Date: 12/20/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
01	Material: Plaster	NF	A	Rm 13 ceiling 011	13 ceiling	228 SF	2
	grey w/ skin		B	Rm 15 north wall 012			
			C	Rm 15 south wall 013			
02	Material: Texture	NF	A	South ceiling Rm 5 014	5	270 SF	3
	white		B	Center ceiling Rm 5 015			
			C	SW ceiling Rm 5 016			
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

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

Revision date 5/7/2015

Job #:	199852		Building:	213 W Barnes Ave		Date:	12/20/17	
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
3	Material: Duct wrap Description: grey	F	A	Rm 07 North duct (d13)	15162019	756 SF	15	
			B	Rm 6 east duct 017	61717			
			C	Rm 17 west duct 019	ducts			
	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 #:	199852		Building: 213 W Barnes Ave		Date: 12/20/17		
	Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter		Material Located throughout bldg (Please List all Rooms)	Quantity
1	Material: Drywall Description: white	NF	A	Rm 8 center ceiling	Thruhout	210 SF	7
2	Material: MUD Description: white	NF	B	Rm 13 east wall	Thruhout	500 SF	7
3	Material: Tape Description: white	NF	A	Rm 13 same as 04A	Thruhout	600 SF	7
4	Material: Ceiling tile Description: white	NF	B	same as 04B	Thruhout	600 SF	7
5	Material: 12x12 Tiles Description: beige	NF	A	same as 04A	6	195 SF	10
6	Material: Linoleum Description: Cinnamon	NF	B	same as 04B	7	195 SF	14
7	Material: 6x6 Tile Description: red	NF	A	Rm 6 center ceiling	3/15	116 SF	20
8	Material: Blown In Ins Description: tan	NF	B	Rm 6 north ceiling	14	180 SF	19
9	Material: Linoleum Description: light purple	F	A	Rm 7 north floor	Attic	1080 SF	30
10	Material: Wall linoleum Description: orange	NF	B	Rm 7 south floor	20	137 SF	22
11	Material: Linoleum Description: light purple	NF	A	Rm 3 west floor	12 east wall	63 SF	13
12	Material: Linoleum Description: light purple	NF	B	Rm 5 south floor			
13	Material: Linoleum Description: light purple	NF	A	Rm 14 east floor			
14	Material: Linoleum Description: light purple	NF	B	Rm 15 south floor			
15	Material: Linoleum Description: light purple	NF	A	Rm 14 south floor			
16	Material: Linoleum Description: light purple	NF	B	Rm 14 south floor			
17	Material: Linoleum Description: light purple	NF	A	Attic center floor			
18	Material: Linoleum Description: light purple	NF	B	Attic center floor			
19	Material: Linoleum Description: light purple	NF	A	Rm 20 north floor			
20	Material: Linoleum Description: light purple	NF	B	Rm 20 north floor			
21	Material: Linoleum Description: light purple	NF	A	Rm 12 east wall			
22	Material: Linoleum Description: light purple	NF	B	Rm 12 east wall			
23	Material: Linoleum Description: light purple	NF	A	Rm 12 east wall			
24	Material: Linoleum Description: light purple	NF	B	Rm 12 east wall			

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199852		Building:	213 Barnes Ave		Date:	12/16/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
14	Material: Fiberboard Description	NF	A	Rm 11 north wall	11 North wall	147 SF	12	
15	Material: Super Cement wall Description	NF	A	Rm 11 north wall	10, 11, 12	1092 SF	7	
16	Material: grey mortar Description	NF	A	Rm 10 east wall	10, 11, 12	900 SF	7	
17	Material: grey mortar Description	NF	B	Same as 15A	10, 11, 12	600 SF	9	
18	Material: Concrete Floor Description	NF	A	Same as 15B	10, 11, 12	1092 SF	8	
19	Material: Outer cement wall Description	NF	A	Rm 10 center floor	ext mouse	1800 SF	4	
20	Material: grey shingle Description	NF	B	Rm 10 center floor	ext windows	1175 UN	38	
21	Material: black Description	NF	A	Rm 10 south wall	chimney Rm 10	80 SF	10	
22	Material: window Glaze Description	NF	B	Rm 10 west wall	chimney Rm 10	80 SF	10	
23	Material: red Description	NF	A	North roof ext mouse	ext mouse	6264 SF	37	
24	Material: black Description	NF	B	South roof ext mouse	ext mouse			
25	Material: grey Description	NF	A	ext window east				
26	Material: black Description	NF	B	ext window east				
27	Material: stack cement Description	NF	A	ext window east				
28	Material: grey Description	NF	B	ext window east				
29	Material: house wrap Description	NF	A	Rm 10 chimney				
30	Material: tan Description	NF	B	Rm 10 chimney				

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: 213 W Barnes Ave		Date: 12/20/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		
21	Material: shingle Description: black	NF	A	Rm 21 ext roof north 0613	792 SF	2
25	Material: Cinder block Description: grey	NF	A	Rm 21 ext roof south 0611		
26	Material: Mortar Description: grey	NF	B	east wall Rm 21 0602	228 SF	2
27	Material: Concrete Description: grey	NF	A	west wall Rm 21 0603	200 SF	2
			B	same as 25-A 0604		
28	Material: Concrete Description: grey	NF	A	same as 25-B 0605	792 SF	2
			B	Center floor Rm 21 0606		
	Material: Description:		A	North floor Rm 21 0607		
	Material: Description:		B			
	Material: Description:		A			
	Material: Description:		B			
	Material: Description:		A			
	Material: Description:		B			
	Material: Description:		A			
	Material: Description:		B			
	Material: Description:		A			
	Material: Description:		B			

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

Laboratory Analysis / Results

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

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

SIGNATURE

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

Prepared by: Wade Wiltse
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:	33-01-01-21-402-191
House No:	1621 Martin St, Lansing, MI 48910
Date Inspected:	12/18/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	945 SF	Garage Square Footage	NA
Basement Square Footage	819 SF	Garage Siding	NA
Siding	3168 SF	Garage Color	NA
Color	Brown	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-402-191
House No. 1621 Martin St, Lansing, MI 48910
Date Inspected: 12/18/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description Quantity & Units Location

Misc. Items (solvents, cleaners)	9	Room 2, 16, 17, Exterior
Paint Cans	4 (1 gallon)	Room 12, 16
Smoke Detectors	1	Room 7
Thermostats	1	Room 3
Space Heater	1	Room 16

TIRE(s) REPORT

Material Quantity & Units Location

Tires	2	Exterior
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Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-402-191
 House No. 1621 Martin St, Lansing, MI 48910
 Date Inspected: 12/18/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Texture, white/rough	Room 2	512 SF	No
2	NF	Texture, white/smooth	Room 10	288 SF	No
3	NF	Plaster, grey with skim	Room 10, 12	592 SF	No
4	NF	Drywall, white	Throughout	4696 SF	No
5	NF	Tape, white	Room 3, 11	32 SF	No
6	NF	Mud, white	Room 3, 11	32 SF	No
7	NF	Linoleum, red	Room 6	120 SF	No
8	NF	6x6 Tile, wood/brown	Room 3	126 SF	No
9	NF	12x12 Floor tile, white	Room 4	120 SF	No
10	NF	Linoleum, yellow	Room 5	88 SF	No
11	NF	12x12 Tile, white	Room 7	108 SF	YES
12	NF	Mastic, black	Room 7	108 SF	No
13	NF	12x12 Tile, tan	Room 2, 7	360 SF	No
14	NF	Mastic, black	Room 2, 7	360 SF	No
15	NF	Wall linoleum, yellow	Room 6	96 SF	No
16	NF	12x12 Ceiling tile, white	Room 4, 10	192 SF	No
17	NF	Concrete floor, grey	Room 16, 17, 18	819 SF	No
18	NF	Cinderblock, grey	Room 16, 17, 18	864 SF	No
19	NF	Mortar, grey	Room, 16, 17, 18	700 SF	No
20	NF	Blown-in-insulation, grey	Attic	384 SF	No
21	NF	Shingle, black	Exterior (shed)	72 SF	No

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

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-402-191
 House No. 1621 Martin St, Lansing, MI 48910
 Date Inspected: 12/18/2017

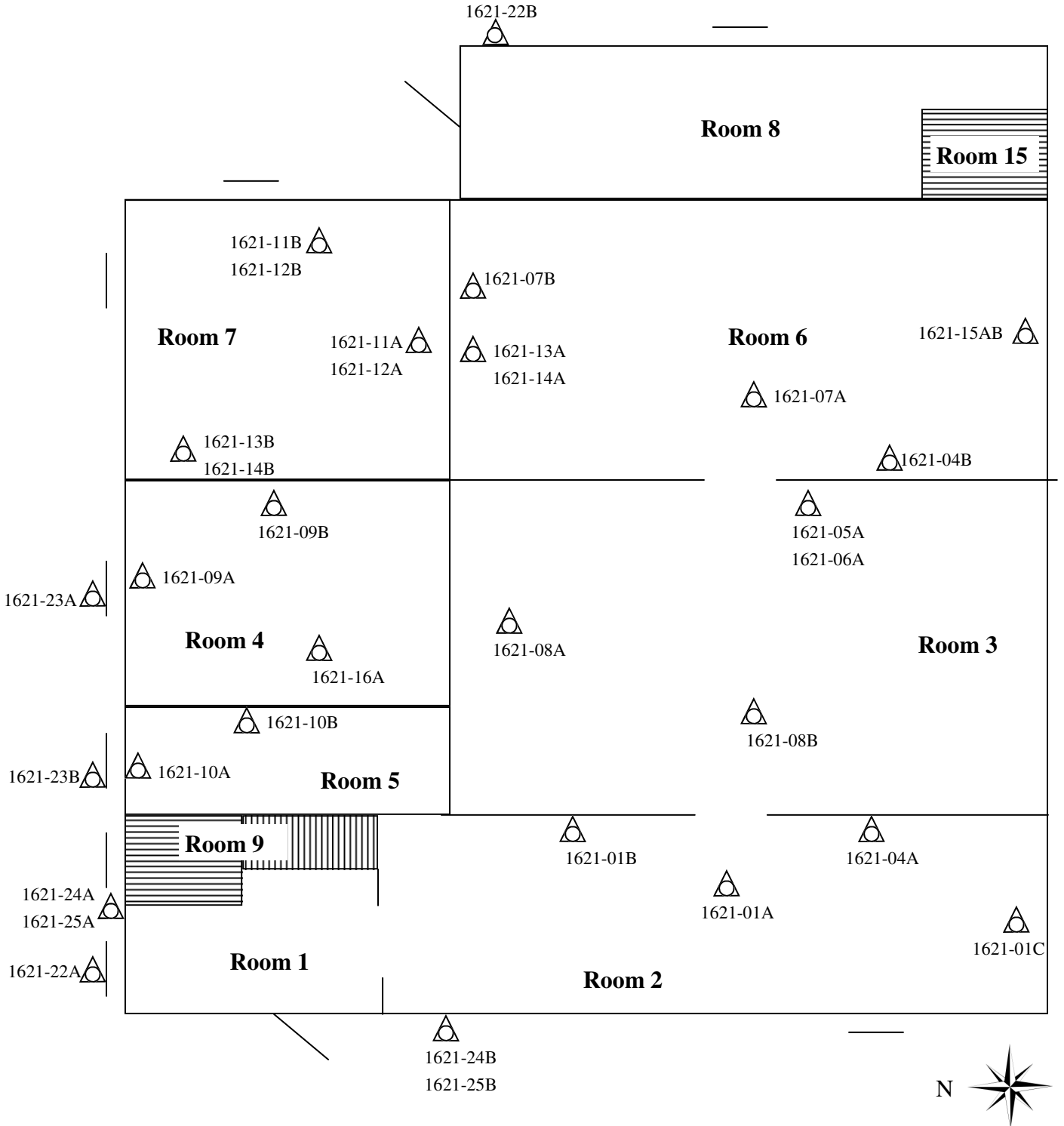
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS


Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
22	NF	Shingle, black	Exterior (house)	1000 SF	No
23	NF	Window glaze, white	Exterior	5 windows	No
24	NF	Asphalt siding, white	Exterior (house)	1188 SF	No
25	NF	House wrap, brown	Exterior (house)	1188 SF	No
26	NF	Linoleum, white	Room 12	90 SF	No
27	NF	Vapor barrier, tan	Rooms 14, 10	672 SF	No
28	NF	Linoleum, cream	Room 14, 10	672 SF	No
29	NF	12x12 Tile, cream	Room 10, 11	736 SF	No
30	NF	Mastic, black	Room 10, 11	736 SF	No

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

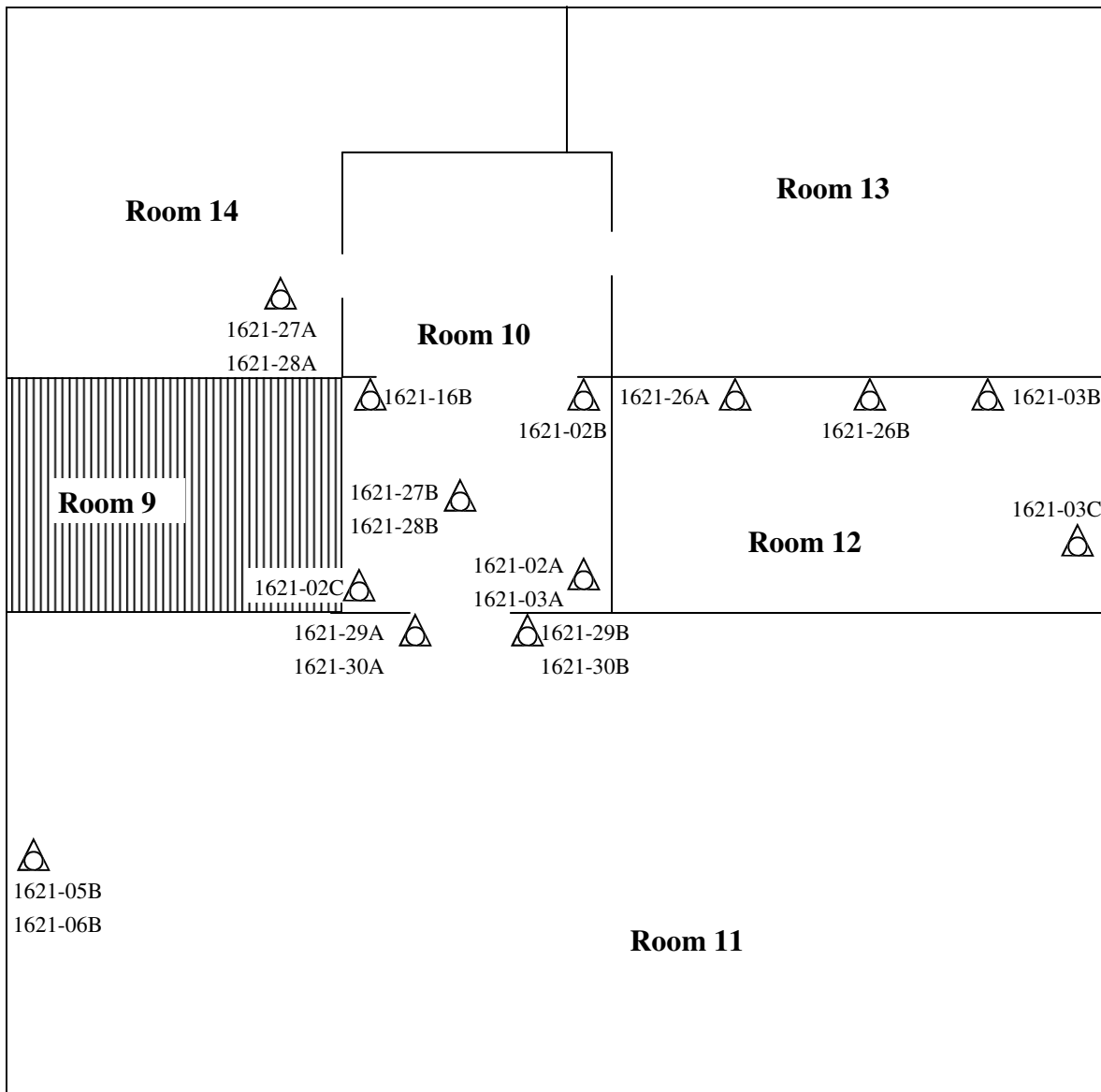
Attachment:

Site Drawing



 Sample Location

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

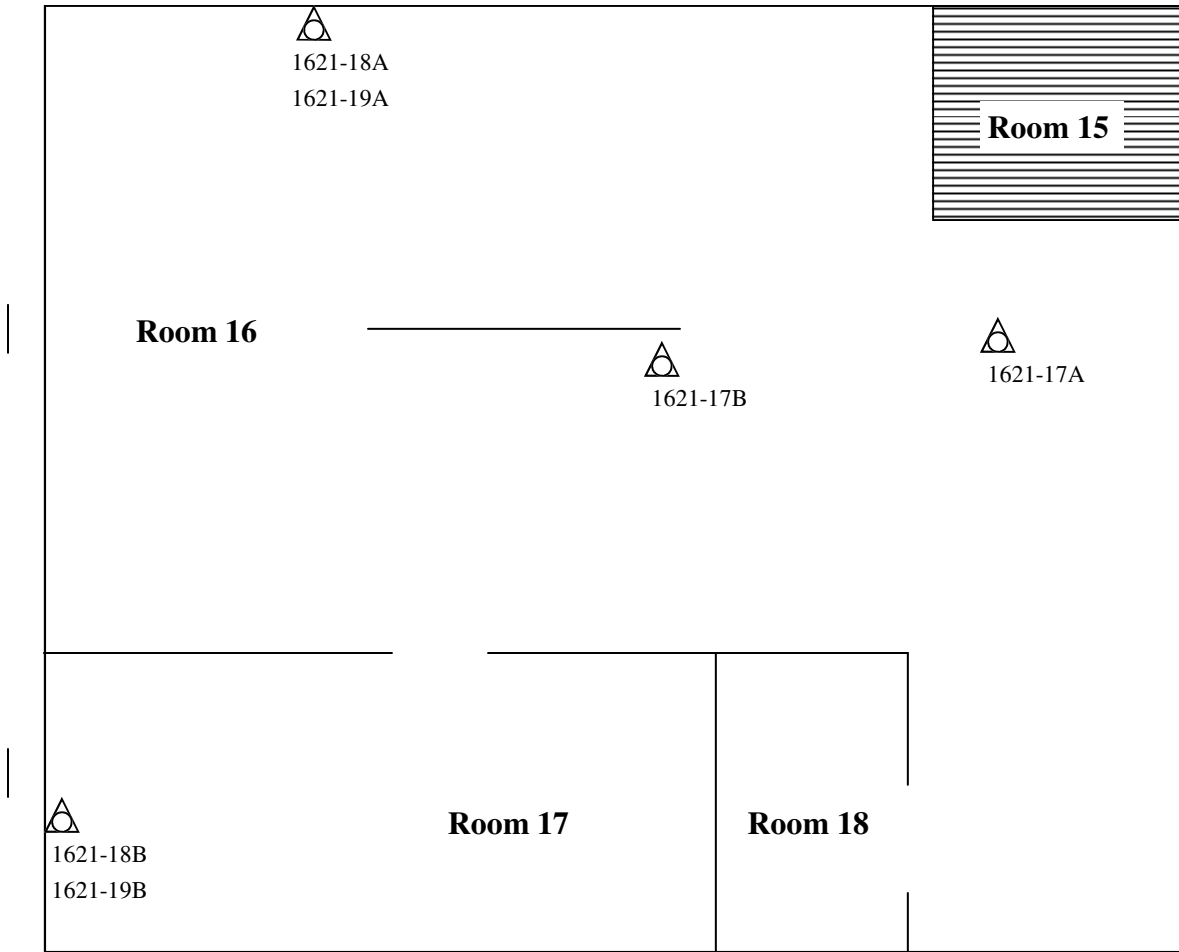


 Sample Location

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

Basement

33-01-01-21-402-191
1621 Martin St, Lansing, MI 48910
12/18/2017



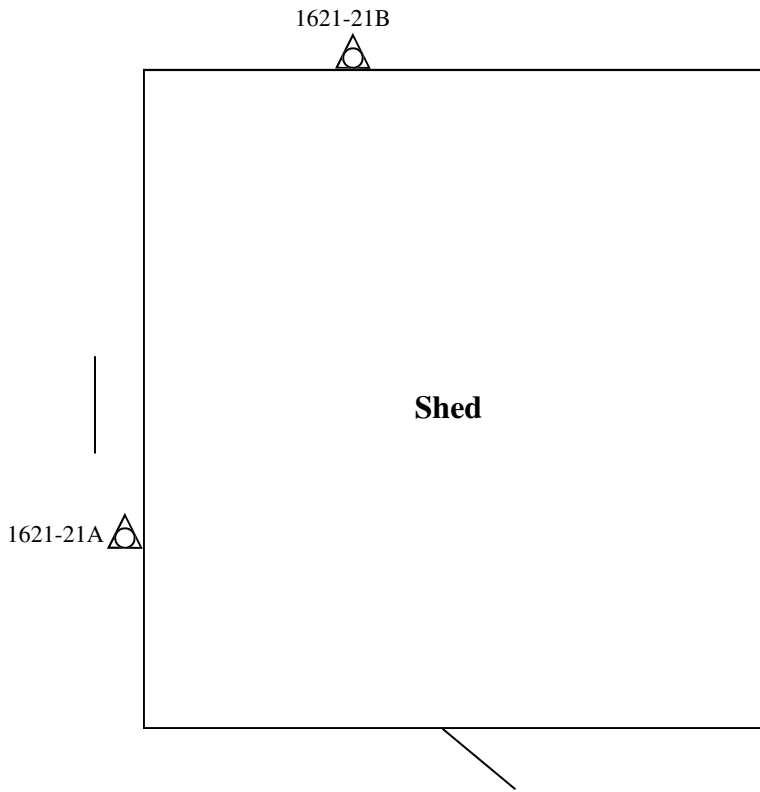
 Sample Location

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

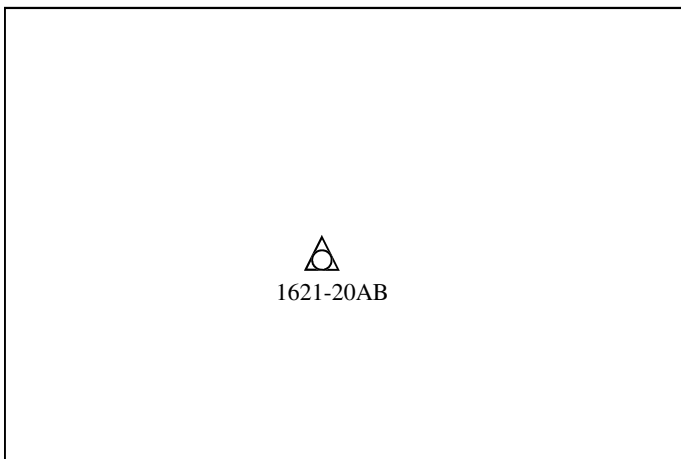
Ingham County Land Bank
200411

Shed

33-01-01-21-402-191
1621 Martin St, Lansing, MI 48910
12/18/2017



Attic



 Sample Location

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

Ingham County Land Bank
200411

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-21-402-191
House No. 1621 Martin St, Lansing, MI 48910
Date Inspected: 12/18/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-01-21-402-191
House No.	1621 Martin St, Lansing, MI 48910
Date Inspected:	12/18/2017



Shed

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-21-402-191
House No. 1621 Martin St, Lansing, MI 48910
Date Inspected: 12/18/2017



Misc. Items (solvents, cleaners)



Paint Cans



Smoke Detectors



Thermostats

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-21-402-191
House No. 1621 Martin St, Lansing, MI 48910
Date Inspected: 12/18/2017



Tires



Space Heater

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-21-402-191
House No.	1621 Martin St, Lansing, MI 48910
Date Inspected:	12/18/2017



12x12 Tile, 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 :
1621 Martin St, Lansing, MI 48910

Attention :

Client Project : N/A

ETC Job : 200411

Report Date : 12/22/2017

Login #	Sample ID	Work Requested	Completed
641980	01A	Asbestos Analysis	12/22/2017
641981	01B	Asbestos Analysis	12/22/2017
641982	01C	Asbestos Analysis	12/22/2017
641983	02A	Asbestos Analysis	12/22/2017
641984	02B	Asbestos Analysis	12/22/2017
641985	02C	Asbestos Analysis	12/22/2017
641986	03A	Asbestos Analysis	12/22/2017
641987	03B	Asbestos Analysis	12/22/2017
641988	03C	Asbestos Analysis	12/22/2017
641989	04A	Asbestos Analysis	12/22/2017
641990	04B	Asbestos Analysis	12/22/2017
641991	05A	Asbestos Analysis	12/22/2017
641992	05B	Asbestos Analysis	12/22/2017
641993	06A	Asbestos Analysis	12/22/2017
641994	06B	Asbestos Analysis	12/22/2017
641995	07A	Asbestos Analysis	12/22/2017
641996	07B	Asbestos Analysis	12/22/2017
641997	08A	Asbestos Analysis	12/22/2017
641998	08B	Asbestos Analysis	12/22/2017
641999	09A	Asbestos Analysis	12/22/2017

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Login #	Sample ID	Work Requested	Completed
642000	09B	Asbestos Analysis	12/22/2017
642001	10A	Asbestos Analysis	12/22/2017
642002	10B	Asbestos Analysis	12/22/2017
642003	11A	Asbestos Analysis	12/22/2017
642004	11B	Asbestos Analysis	12/22/2017
642005	12A	Asbestos Analysis	12/22/2017
642006	12B	Asbestos Analysis	12/22/2017
642007	13A	Asbestos Analysis	12/22/2017
642008	13B	Asbestos Analysis	12/22/2017
642009	14A	Asbestos Analysis	12/22/2017
642010	14B	Asbestos Analysis	12/22/2017
642011	15A	Asbestos Analysis	12/22/2017
642012	15B	Asbestos Analysis	12/22/2017
642013	16A	Asbestos Analysis	12/22/2017
642014	16B	Asbestos Analysis	12/22/2017
642015	17A	Asbestos Analysis	12/22/2017
642016	17B	Asbestos Analysis	12/22/2017
642017	18A	Asbestos Analysis	12/22/2017
642018	18B	Asbestos Analysis	12/22/2017
642019	19A	Asbestos Analysis	12/22/2017
642020	19B	Asbestos Analysis	12/22/2017
642021	20A	Asbestos Analysis	12/22/2017
642022	20B	Asbestos Analysis	12/22/2017
642023	21A	Asbestos Analysis	12/22/2017
642024	21B	Asbestos Analysis	12/22/2017
642025	22A	Asbestos Analysis	12/22/2017
642026	22B	Asbestos Analysis	12/22/2017

Login #	Sample ID	Work Requested	Completed
642027	23A	Asbestos Analysis	12/22/2017
642028	23B	Asbestos Analysis	12/22/2017
642029	24A	Asbestos Analysis	12/22/2017
642030	24B	Asbestos Analysis	12/22/2017
642031	25A	Asbestos Analysis	12/22/2017
642032	25B	Asbestos Analysis	12/22/2017
642033	26A	Asbestos Analysis	12/22/2017
642034	26B	Asbestos Analysis	12/22/2017
642035	27A	Asbestos Analysis	12/22/2017
642036	27B	Asbestos Analysis	12/22/2017
642037	28A	Asbestos Analysis	12/22/2017
642038	28B	Asbestos Analysis	12/22/2017
642039	29A	Asbestos Analysis	12/22/2017
642040	29B	Asbestos Analysis	12/22/2017
642041	30A	Asbestos Analysis	12/22/2017
642042	30B	Asbestos Analysis	12/22/2017

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 :
1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641980 01A Rm 2 Ceiling Center Analyst: Sarah Poirier	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
641981 01B Rm 2 North Ceiling Analyst: Sarah Poirier	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
641982 01C Rm 2 South Ceiling Analyst: Sarah Poirier	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
641983 02A Rm 10 Wall South Analyst: Sarah Poirier	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
641984 02B Rm 10 Wall East Analyst: Sarah Poirier	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641985 02C Rm 10 Wall West Analyst: Sarah Poirier	Texture	White Non-Fibrous Homogenous		100% Other	None Detected

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

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641986 03A Rm 10 Wall South Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	5% Vermiculite 93% Other	None Detected
641986 03A Rm 10 Wall South Layer-2 Analyst: Sarah Poirier	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641987 03B Rm 12 East Wall Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	5% Vermiculite 94% Other	None Detected
641987 03B Rm 12 East Wall Layer-2 Analyst: Sarah Poirier	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
641988 03C Rm 12 South Wall Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	5% Cellulose	5% Vermiculite 90% Other	None Detected
641988 03C Rm 12 South Wall Layer-2 Analyst: Sarah Poirier	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
641989 04A Rm 2 Wall East Analyst: Sarah Poirier	Drywall	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641990 04B Rm 6 East Wall Analyst: Sarah Poirier	Drywall	White Non-Fibrous Homogenous	2% Cellulose 1% Fiberglass	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 :
 1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641991 05A Rm 3 East Wall Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	95% Fiberglass	5% Other	None Detected
641992 05B Rm 11 North Wall Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	1% Cellulose 97% Fiberglass	2% Other	None Detected
641993 06A Rm 3 East Wall Analyst: Sarah Poirier	Mud	White Non-Fibrous Homogenous		100% Other	None Detected
641994 06B Rm 11 North Wall Analyst: Sarah Poirier	Mud	White Non-Fibrous Homogenous		100% Other	None Detected
641995 07A Rm 6 West Floor Layer-1 Analyst: Sarah Poirier	Linoleum	Red Fibrous Homogenous	60% Cellulose	40% Other	None Detected
641995 07A Rm 6 West Floor Layer-2 Analyst: Sarah Poirier	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641996 07B Rm 6 North Floor Layer-1 Analyst: Sarah Poirier	Linoleum	Red Fibrous Homogenous	50% Cellulose	50% Other	None Detected
641996 07B Rm 6 North Floor Layer-2 Analyst: Sarah Poirier	Mastic	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641997 08A Rm 3 North Floor Analyst: Sarah Poirier	6x6 Tile	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641998 08B Rm 3 West Floor Analyst: Sarah Poirier	6x6 Tile	Brown Non-Fibrous Homogenous		100% Other	None Detected
641999 09A Rm 4 North Floor Layer-1 Analyst: Sarah Poirier	12x12 Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641999 09A Rm 4 North Floor Layer-2 Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642000 09B Rm 4 East Floor Layer-1 Analyst: Sarah Poirier	12x12 Tile	White Non-Fibrous Homogenous		100% Other	None Detected
642000 09B Rm 4 East Floor Layer-2 Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642001 10A Rm 5 North Floor Layer-1 Analyst: Sarah Poirier	Linoleum	Yellow Fibrous Homogenous	60% Cellulose 5% Fiberglass	35% Other	None Detected
642001 10A Rm 5 North Floor Layer-2 Analyst: Sarah Poirier	Mastic	Tan 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 :
 1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642002 10B Rm 5 East Floor Layer-1 Analyst: Sarah Poirier	Linoleum	Yellow Fibrous Homogenous	60% Cellulose 3% Fiberglass	37% Other	None Detected
642002 10B Rm 5 East Floor Layer-2 Analyst: Sarah Poirier	Mastic	Tan Non-Fibrous Homogenous		100% Other	None Detected
642003 11A Rm 7 South Floor Layer-1 Analyst: Sarah Poirier	12x12 Tile	White Non-Fibrous Homogenous		98.75% Other	PC 1.25% Chrysotile
642004 11B Rm 7 East Floor Analyst: Sarah Poirier		Not Analyzed			
642005 12A Rm 7 South Floor Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642006 12B Rm 7 East Floor Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642007 13A Rm 7 South Floor Analyst: Sarah Poirier	12x12 Tile	Tan Non-Fibrous Homogenous		100% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642008 13B Rm 7 West Floor Analyst: Sarah Poirier	12x12 Tile	Tan Non-Fibrous Homogenous		100% Other	None Detected
642009 14A Rm 7 South Floor Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642010 14B Rm 7 West Floor Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642011 15A South Wall Rm 6 Analyst: Sarah Poirier	Linoleum	Yellow Fibrous Homogenous	60% Cellulose 5% Fiberglass	35% Other	None Detected
642012 15B South Wall Rm 6 Analyst: Sarah Poirier	Linoleum	Yellow Fibrous Homogenous	60% Cellulose	40% Other	None Detected
642013 16A Rm 4 Ceiling Center Analyst: Sarah Poirier	Ceiling Tile	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
642014 16B Rm 10 Ceiling Center Analyst: Sarah Poirier	Ceiling Tile	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642015 17A Rm 16 South Floor Analyst: Sarah Poirier	Concrete	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
642016 17B Rm 16 Center Floor Analyst: Sarah Poirier	Concrete	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
642017 18A Rm 16 East Wall Analyst: Sarah Poirier	Cinderblock	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642018 18B Rm 17 North Wall Analyst: Sarah Poirier	Cinderblock	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642019 19A Rm 16 East Wall Analyst: Sarah Poirier	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642020 19B Rm 17 North Wall Analyst: Sarah Poirier	Mortar	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642021 20A Attic Floor Center Analyst: Sarah Poirier	Blown-in Insulation	Grey Fibrous Homogenous	80% Cellulose 10% Mineral wool	10% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642022 20B Attic Floor North Analyst: Sarah Poirier	Blown-in Insulation	Grey Fibrous Homogenous	80% Cellulose 10% Mineral wool	10% Other	None Detected
642023 21A North Roof Ext Shed Layer-1 Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	20% Fiberglass	80% Other	None Detected
642023 21A North Roof Ext Shed Layer-2 Analyst: Sarah Poirier	Tar	Black Non-Fibrous Homogenous		100% Other	None Detected
642024 21B East Roof Ext Shed Layer-1 Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	15% Fiberglass	85% Other	None Detected
642024 21B East Roof Ext Shed Layer-2 Analyst: Sarah Poirier	Tar	Black Non-Fibrous Homogenous		100% Other	None Detected
642025 22A North Roof Ext House Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
642026 22B East Roof Ext House Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
642027 23A Rm 4 Window Ext Analyst: Sarah Poirier	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642028 23B Rm 5 Window Ext Analyst: Sarah Poirier	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642029 24A North Wall Ext House Analyst: Sarah Poirier	Asphalt Siding	White Non-Fibrous Homogenous	30% Cellulose	70% Other	None Detected
642030 24B West Wall Ext House Analyst: Sarah Poirier	Asphalt Siding	White Non-Fibrous Homogenous	35% Cellulose	65% Other	None Detected
642031 25A North Wall Ext House Analyst: Sarah Poirier	House Wrap	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
642032 25B West Wall Ext House Analyst: Sarah Poirier	House Wrap	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
642033 26A Rm 12 North Floor Analyst: Sarah Poirier	Linoleum	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
642034 26B Rm 12 East Floor Analyst: Sarah Poirier	Linoleum	White Fibrous Homogenous	60% Cellulose	40% 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 :
 1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642035 27A Rm 14 South Floor Analyst: Sarah Poirier	Vapor Barrier	Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
642036 27B Rm 10 North Floor Analyst: Sarah Poirier	Vapor Barrier	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
642037 28A Rm 14 South Floor Analyst: Sarah Poirier	Linoleum	Cream Fibrous Homogenous	10% Cellulose 20% Fiberglass	70% Other	None Detected
642038 28B Rm 10 North Floor Analyst: Sarah Poirier	Linoleum	Cream Fibrous Homogenous	10% Cellulose 20% Fiberglass	70% Other	None Detected
642039 29A Rm 10 West Floor Analyst: Sarah Poirier	12x12 Tile	Cream Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642040 29B Rm 11 East Floor Analyst: Sarah Poirier	12x12 Tile	Cream Non-Fibrous Homogenous		100% Other	None Detected
642041 30A Rm 10 West Floor Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1621 Martin St, Lansing, MI 48910

ETC Job : 200411
Client Project : N/A
Date Collected : 12/18/2017
Date Received : 12/21/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642042 30B Rm 11 East Floor Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Sarah Poirier

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

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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 #: 200411

Client: ETC	Contact: Phone: (734) 955-6600	Project Location/name: 1621 martin
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Fax: (734) 955-6604 E-mail: results@2etl.com	
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Client Project #: 200411 Date Sampled: 12/18/17

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

PLM Instructions 3 DAYS
 (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 ABC		
	02 ABC		
	03 ABC		
	04 AB		
	↓		
	30- MB		

	Date	Time
Relinquished (Name/Organization): <u>Ernie Wilton</u>		am/pm
Received (Name/ETL): <u>Rovella</u>	12.21.17	am/pm
Stereoscopical Analysis (Name/ETL): <u>Joseph Pavia</u>	12/21/17	am/pm
Sample Login (Name/ETL): <u>Rovella</u>	12.21.17	am/pm
Analysis (Name/ETL): <u>Joseph Pavia</u>	12/21/17	am/pm
QA/QC Review (Name/ETL): <u>[Signature]</u>	12/22/17	am/pm

Special Instructions: Please count anything less than 3% if positive!

Remarks:

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building: 1621 Martin St			Date:	12/18/17		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
01	Material: Texture rough	NF	A	Rm 2 ceiling center	Rm 2980 981 Rm 2982	512	
	white		B	Rm 2 north ceiling			
	rough		C	Rm 2 south ceiling			
02	Material: Texture smooth	NF	A	Rm 10 wall south	Rm 10	288	
	white		B	Rm 10 wall east			
	smooth		C	Rm 10 wall west			
03	Material: Plaster	NF	A	Rm 10 wall south	Rm 10, 12, 987, 988	592	
	w/skim		B	Rm 12 west east wall			
			C	Rm 12 south wall			

<1000 SF = 3 samples

1000 - <5000 = 5 samples

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building:		Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
			Friable (F) / Non-Friable (NF)						
200411						1621 Martin st			
50		Material: Drywall Description: white	NF	A	Rm 2 wall east	64288	4696		
51		Material: Tape Description: white	NF	B	Rm 6 east wall	990			
52		Material: Mud Description: white	NF	A	Rm 3 east wall	991			
53		Material: Mud Description: white	NF	B	Rm 11 north wall	992	32		
54		Material: Linoleum Description: Red	NF	A	same as 05A	993			
55		Material: Linoleum Description: Red	NF	B	same as 05B	994			
56		Material: 6x6 Tile Description: wood/brown	NF	A	Rm 6 west floor	995			
57		Material: 12x12 Tile Description: white	NF	B	Rm 6 north floor	996	170		
58		Material: Linoleum Description: yellow	NF	A	Rm 3 north floor	997			
59		Material: Linoleum Description: yellow	NF	B	Rm 3 west floor	998	126		
60		Material: 12x12 Tile Description: white	NF	A	Rm 4 north floor	999			
61		Material: Linoleum Description: yellow	NF	B	Rm 4 east floor	6420DD	126		
62		Material: 12x12 Tile Description: white	NF	A	Rm 5 north floor	001			
63		Material: Mastic Description: black	NF	B	Rm 5 east floor	002	84		
64		Material: 12x12 Tile Description: white	NF	A	Rm 7 South floor	003			
65		Material: Mastic Description: black	NF	B	Rm 7 east floor	004	168		
66		Material: 12x12 Tile Description: tan	NF	A	same as 11A	005			
67		Material: 12x12 Tile Description: tan	NF	B	same as 11B	006	108		
68		Material: 12x12 Tile Description: tan	NF	A	Rm 7 south floor	007			
69		Material: 12x12 Tile Description: tan	NF	B	Rm 7 west floor	008	360		

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	200411		Building:	1621 Martin St		Date:	12/18/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
14	Material: Mastic Description: black	NF	A	Same as 13A	042009	3, 7		
15	Material: Wall Linoleum Description: yellow	NF	A	South wall	Rm 6 011	6		
16	Material: Ceiling Tile 12x12 Description: white	NF	A	South wall	Rm 6 012			
17	Material: Concrete Floor Description: grey	NF	B	Rm 4 ceiling center	013	10, 4		
18	Material: Cinderblock Description: grey	NF	A	Rm 10 ceiling center	014			
19	Material: Mortar Description: grey	NF	B	Rm 16 south floor	015	16, 17, 18		
20	Material: Blown-In Ins Description: grey	NF	A	Rm 16 center floor	016			
21	Material: Shingle Description: black	NF	A	Rm 16 east wall	017	16, 17, 18		
22	Material: Shingle Description: black	NF	B	Rm 17 north wall	018			
23	Material: Windows Glaze Description: white	NF	A	Same as 18A	019	16, 17, 18		
24	Material: Shingle Description: black	NF	B	Same as 18B	020			
25	Material: Shingle Description: black	NF	A	Attic floor center	021	Attic		
26	Material: Shingle Description: black	NF	B	Attic floor north	022			
27	Material: Shingle Description: black	NF	A	North roof	ext shed 023	Ext shed		
28	Material: Shingle Description: black	NF	B	East roof	ext shed 024	Ext shed		
29	Material: Shingle Description: black	NF	A	North roof	Ext house 025	Ext house		
30	Material: Shingle Description: black	NF	B	East roof	Ext house 026	Ext house		
31	Material: Windows Glaze Description: white	NF	A	Rm 4 window	Ext 027	Ext house		
32	Material: Windows Glaze Description: white	NF	B	Rm 5 window	Ext 028	Ext house		

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
200411	Building: 1621 Mastin St					Date: 12/18/17		
24	Material: Asphalt siding	042	029 NF	A	north well ext house	ext house	1188	
	Description	white		B	west wall ext house			
25	Material: House wrap	031	NF	A	same as 24A	ext house	1188	
	Description	brown		B	same as 24B			
26	Material: Linoleum	033	NF	A	Rm 12 north floor	12	90	
	Description	white		B	Rm 12 east floor			
27	Material: Vapor barrier	035	NF	A	Rm 14 south floor	14, 10	692	
	Description	tar tar		B	Rm 10 north floor			
28	Material: Linoleum	037	NF	A	same as 27A &	14, 10	692	
	Description	cream		B	same as 27B			
29	Material: 12x12 Tile	039	NF	A	Rm 10 west floor	10, 11	736	
	Description	cream		B	Rm 11 east floor			
30	Material: Ulastic	041	NF	A	Same as 29A	10, 11	736	
	Description	black		B	Same as 29B			
	Material:			A				
	Description			B				
	Material:			A				
	Description			B				
	Material:			A				
	Description			B				

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

Laboratory Analysis / Results

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

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

SIGNATURE

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

Prepared by: Wade Wiltse
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:	33-01-01-21-460-037
House No:	318 Isbell St, Lansing, MI 48910
Date Inspected:	12/19/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1104 SF	Garage Square Footage	NA
Basement Square Footage	810 SF	Garage Siding	NA
Siding	Vinyl, Wood, Transite, Cinderblock	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: 33-01-01-21-460-037
House No. 318 Isbell St, Lansing, MI 48910
Date Inspected: 12/19/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Heater	1	Room 13
Misc. Items (solvents, cleaners)	8	Room 11, 13
Paint Can	1 (5 gallon)	Room 7
Smoke Detector	4	Room 9, 10, 11

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-460-037
 House No. 318 Isbell St, Lansing, MI 48910
 Date Inspected: 12/19/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Plaster, grey	Room 4	120 SF	No
2	F	Texture, white	Throughout	1799 SF	No
3	F	Duct wrap, grey	Room 13	1 SF	YES
4	NF	Glue pod, yellow	Room 4	100 SF	No
5	NF	Drywall with skim, white	Throughout	6797 SF	No
6	NF	12x12 Floor tile, cream	Room 3, 5	264 SF	No
7	NF	12x12 Floor tile, blue/white	Room 6	35 SF	No
8	NF	Cinderblock, grey	Room 13-15	508 SF	No
9	NF	Mortar, grey	Room 13-15	500 SF	No
10	NF	Concrete floor, grey	Room 13-15	360 SF	No
11	NF	Chimney brick, grey	Room 13	112 SF	No
12	NF	Stack cement, grey	Room 13	30 SF	No
13	NF	12x12 Floor tile, white	Room 13	9 SF	No
14	NF	Mastic, black	Room 13	9 SF	No
15	NF	Shingle, black	Exterior (garage)	2205 SF	No
16	NF	Shingle, black/red	Exterior (house)	1200 SF	No
17	NF	Transite, white	Exterior (second floor)	800 SF	YES
18	NF	House wrap, black	Exterior (second floor)	800 SF	No
19	NF	Vapor barrier, black	Exterior (house)	800 SF	No
20	NF	Fiber board, white	Exterior (house)	800 SF	No
21	NF	Ceiling tile, white	Room 4	144 SF	No

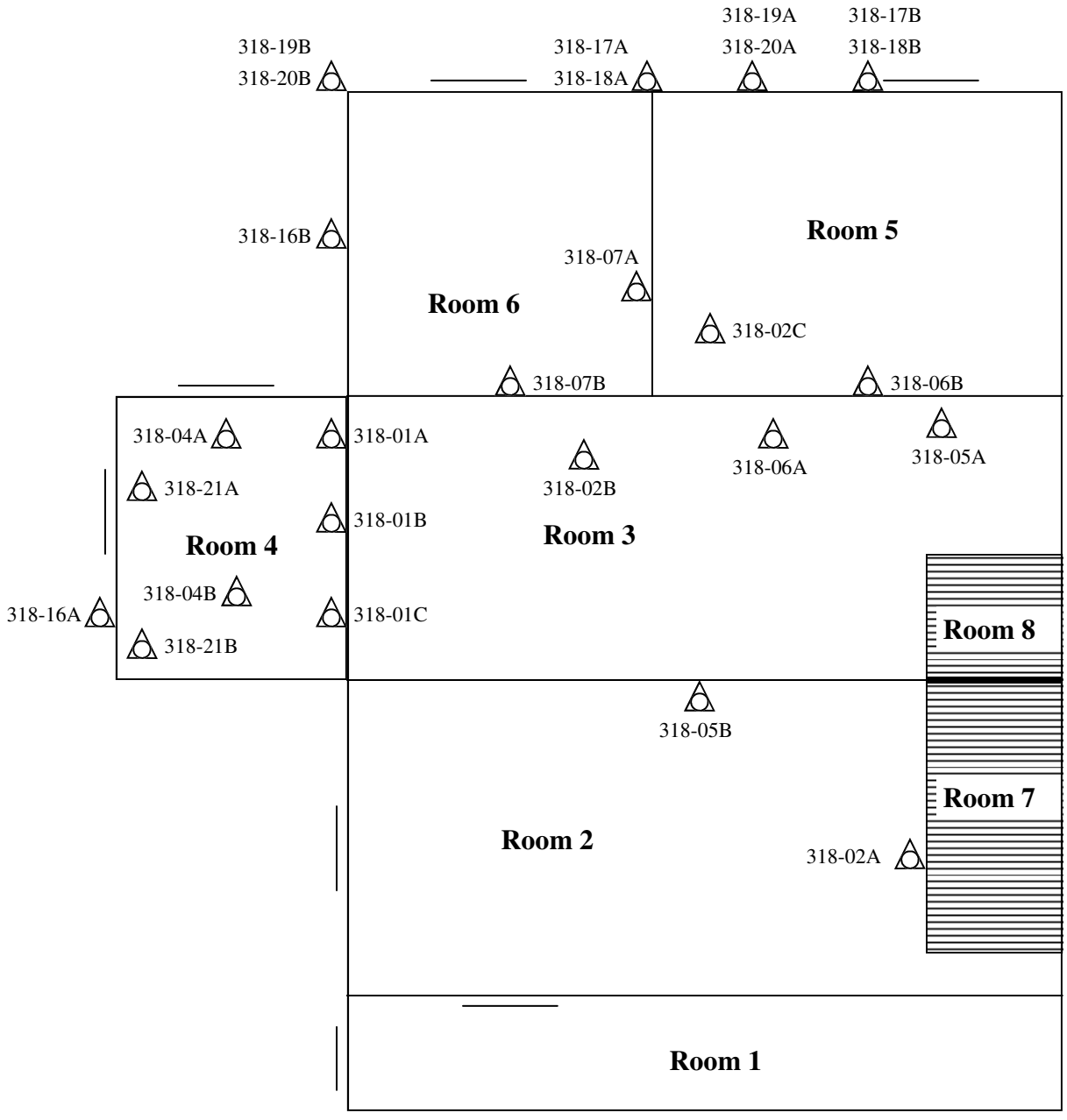
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

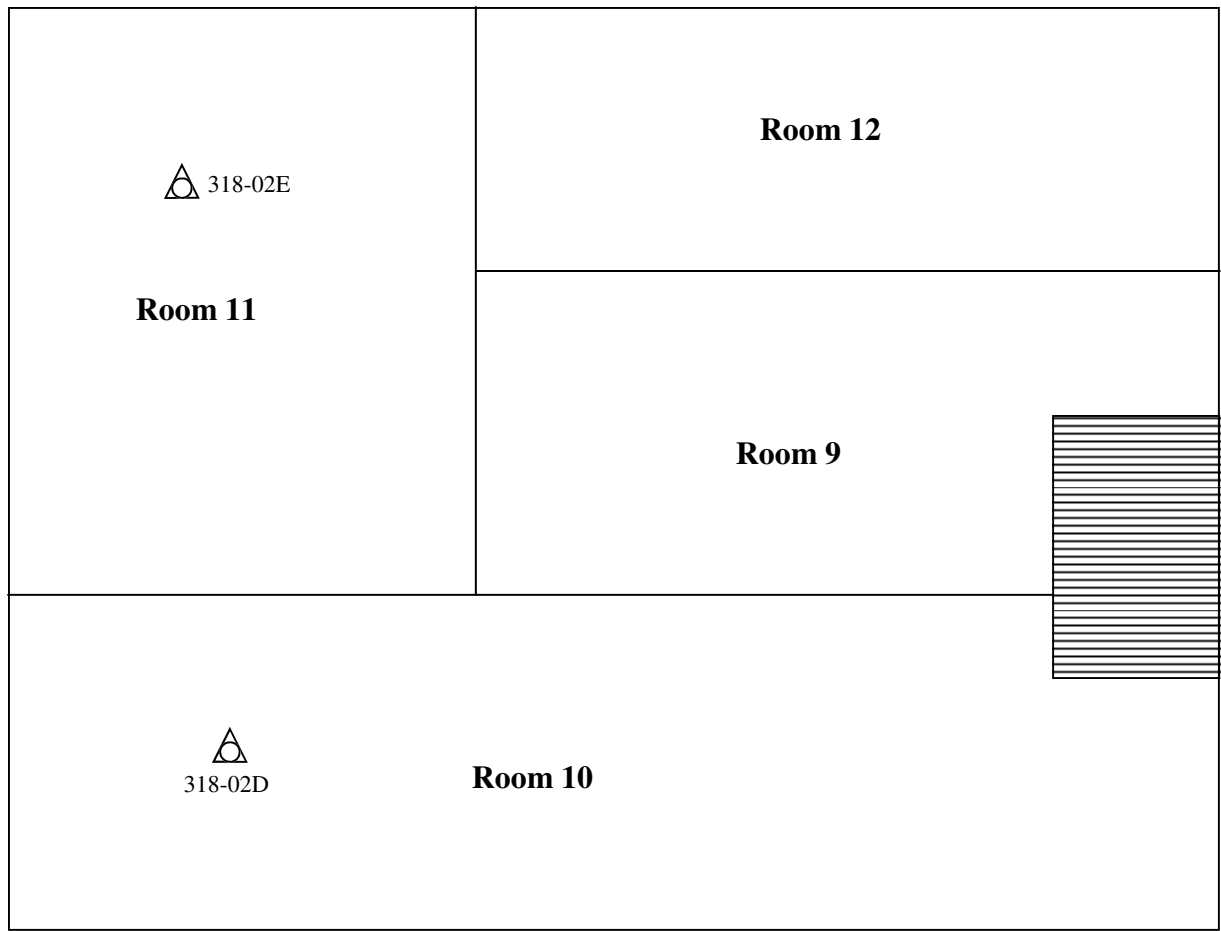
1st floor

33-01-01-21-460-037
318 Isbell St, Lansing, MI 48910
12/19/2017



 Sample Location

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

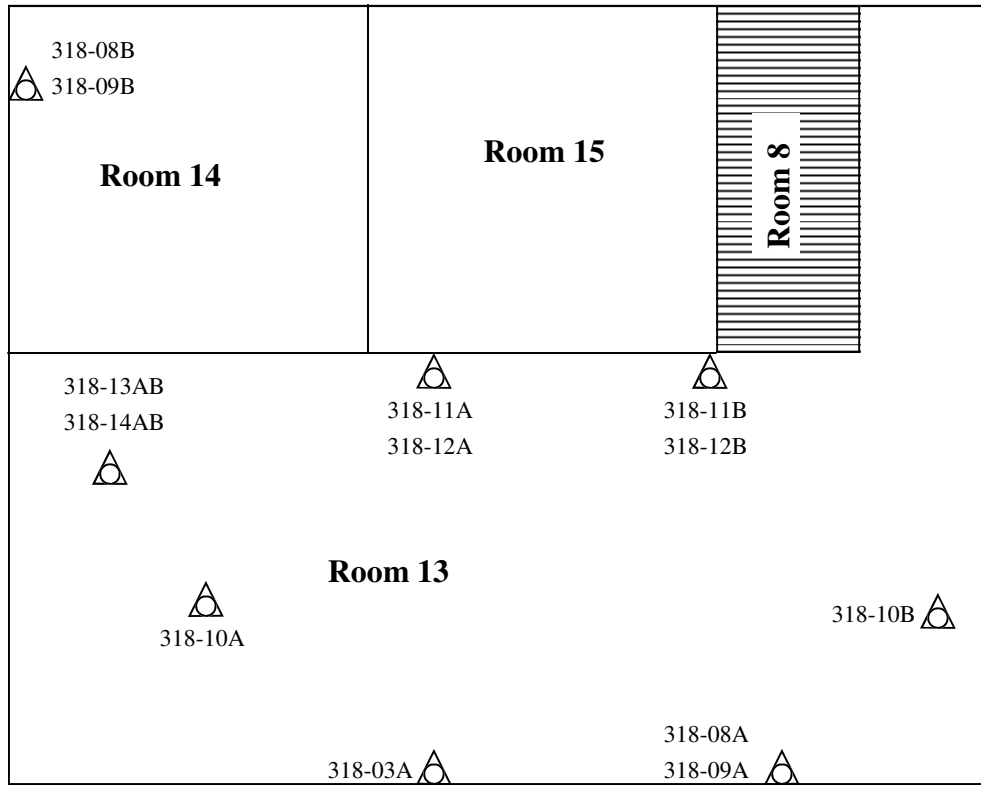


 Sample Location

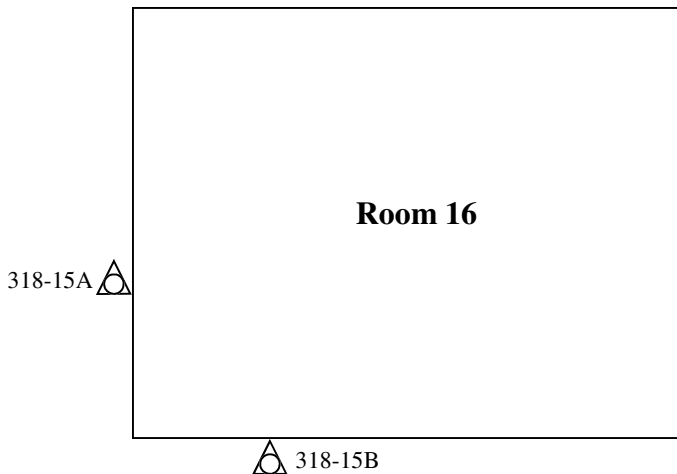
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Basement

33-01-01-21-460-037
318 Isbell St, Lansing, MI 48910
12/19/2017



Garage



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

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-21-460-037
House No. 318 Isbell St, Lansing, MI 48910
Date Inspected: 12/19/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-21-460-037
House No. 318 Isbell St, Lansing, MI 48910
Date Inspected: 12/19/2017



Hot Water Heater



Misc. Items (solvents, cleaners)



Paint Can



Smoke Detector

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-21-460-037
House No.	318 Isbell St, Lansing, MI 48910
Date Inspected:	12/19/2017



Duct Wrap



Transite

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



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

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

Project Location :
318 Isbell St, Lansing, MI 48910

Attention :

Client Project : N/A

ETC Job : 200412
Report Date : 12/21/2017

Login #	Sample ID	Work Requested	Completed
641871	01A	Asbestos Analysis	12/21/2017
641872	01B	Asbestos Analysis	12/21/2017
641873	01C	Asbestos Analysis	12/21/2017
641874	02A	Asbestos Analysis	12/21/2017
641875	02B	Asbestos Analysis	12/21/2017
641876	02C	Asbestos Analysis	12/21/2017
641877	02D	Asbestos Analysis	12/21/2017
641878	02E	Asbestos Analysis	12/21/2017
641879	03A	Asbestos Analysis	12/21/2017
641880	03B	Asbestos Analysis	12/21/2017
641881	03C	Asbestos Analysis	12/21/2017
641882	04A	Asbestos Analysis	12/21/2017
641883	04B	Asbestos Analysis	12/21/2017
641884	05A	Asbestos Analysis	12/21/2017
641885	05B	Asbestos Analysis	12/21/2017
641886	06A	Asbestos Analysis	12/21/2017
641887	06B	Asbestos Analysis	12/21/2017
641888	07A	Asbestos Analysis	12/21/2017
641889	07B	Asbestos Analysis	12/21/2017
641890	08A	Asbestos Analysis	12/21/2017

Login #	Sample ID	Work Requested	Completed
641891	08B	Asbestos Analysis	12/21/2017
641892	09A	Asbestos Analysis	12/21/2017
641893	09B	Asbestos Analysis	12/21/2017
641894	10A	Asbestos Analysis	12/21/2017
641895	10B	Asbestos Analysis	12/21/2017
641896	11A	Asbestos Analysis	12/21/2017
641897	11B	Asbestos Analysis	12/21/2017
641898	12A	Asbestos Analysis	12/21/2017
641899	12B	Asbestos Analysis	12/21/2017
641900	13A	Asbestos Analysis	12/21/2017
641901	13B	Asbestos Analysis	12/21/2017
641902	14A	Asbestos Analysis	12/21/2017
641903	14B	Asbestos Analysis	12/21/2017
641904	15A	Asbestos Analysis	12/21/2017
641905	15B	Asbestos Analysis	12/21/2017
641906	16A	Asbestos Analysis	12/21/2017
641907	16B	Asbestos Analysis	12/21/2017
641908	17A	Asbestos Analysis	12/21/2017
641909	17B	Asbestos Analysis	12/21/2017
641910	18A	Asbestos Analysis	12/21/2017
641911	18B	Asbestos Analysis	12/21/2017
641912	19A	Asbestos Analysis	12/21/2017
641913	19B	Asbestos Analysis	12/21/2017
641914	20A	Asbestos Analysis	12/21/2017
641915	20B	Asbestos Analysis	12/21/2017
641916	21A	Asbestos Analysis	12/21/2017
641917	21B	Asbestos Analysis	12/21/2017

Login #

Sample ID

Work Requested

Completed

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 318 Isbell St, Lansing, MI 48910

ETC Job : 200412
Client Project : N/A
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641871 01A South Wall Center RM 4 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641872 01B SW Wall RM 4 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641873 01C SE Wall RM 4 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641874 02A RM 2 South Ceiling Analyst: Alice Turner	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
641875 02B RM 3 East Ceiling Analyst: Alice Turner	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641876 02C RM 5 West Ceiling Analyst: Alice Turner	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
641877 02D RM 10 Center Ceiling Analyst: Alice Turner	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 318 Isbell St, Lansing, MI 48910

ETC Job : 200412
Client Project : N/A
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641878 02E RM 11 Center Ceiling Analyst: Alice Turner	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
641879 03A RM 13 West Duct Ceiling Analyst: Alice Turner	Duct Wrap	Grey Fibrous Homogenous	40% Cellulose	35% Other	25% Chrysotile
641880 03B RM 13 West Duct Ceiling Analyst: Alice Turner		Not Analyzed			
641881 03C RM 13 West Duct Ceiling Analyst: Alice Turner		Not Analyzed			
641882 04A RM 4 South Wall Analyst: Alice Turner	Glue Pod	Yellow Non-Fibrous Homogenous		100% Other	None Detected
641883 04B RM 4 South Wall Analyst: Alice Turner	Glue Pod	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641884 05A RM 3 East Wall Analyst: Alice Turner	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

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

Location :
318 Isbell St, Lansing, MI 48910

ETC Job : 200412

Client Project : N/A

Date Collected : 12/19/2017

Date Received : 12/21/2017

Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641885 05B RM 2 East Wall Analyst: Alice Turner	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
641886 06A RM 3 East Floor Analyst: Alice Turner	12x12 Floor Tile	Cream Non-Fibrous Homogenous		100% Other	None Detected
641887 06B RM 5 West Floor Analyst: Alice Turner	12x12 Floor Tile	Cream Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641888 07A RM 6 South Floor Analyst: Alice Turner	12x12 Floor Tile	Black/White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641889 07B RM 6 West Floor Analyst: Alice Turner	12x12 Floor Tile	Black/White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641890 08A RM 13 West Wall Analyst: Alice Turner	Cinder Block	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641891 08B RM 14 North Wall Analyst: Alice Turner	Cinder Block	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 318 Isbell St, Lansing, MI 48910

ETC Job : 200412
Client Project : N/A
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641892 09A RM 13 West Wall Analyst: Alice Turner	Mortar	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641893 09B RM 14 North Wall Analyst: Alice Turner	Mortar	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641894 10A RM 13 Center Floor Analyst: Alice Turner	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641895 10B RM 13 South Floor Analyst: Alice Turner	Concrete Floor	Grey Non-Fibrous Homogenous		100% Other	None Detected
641896 11A RM 13 Chimney Center Analyst: Alice Turner	Chimney Brick	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641897 11B RM 13 Chimney Center Analyst: Alice Turner	Chimney Brick	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
641898 12A RM 13 Chimney Center Analyst: Alice Turner	Stack Cement	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 318 Isbell St, Lansing, MI 48910

ETC Job : 200412
Client Project : N/A
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641899 12B RM 13 Chimney Center Analyst: Alice Turner	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641900 13A NE Floor RM 13 Analyst: Alice Turner	12x12 Floor Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641901 13B NE Floor RM 13 Analyst: Alice Turner	12x12 Floor Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641902 14A NE Floor RM 13 Analyst: Alice Turner	Mastic	Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
641903 14B NE Floor RM 13 Analyst: Alice Turner	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641904 15A RM 16 Ext Roof North Analyst: Alice Turner	Shingle	Black Non-Fibrous Homogenous	10% Fiberglass	90% Other	None Detected
641905 15B RM 16 Ext Roof West Analyst: Alice Turner	Shingle	Black Non-Fibrous Homogenous	15% Fiberglass	85% 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 :
 318 Isbell St, Lansing, MI 48910

ETC Job : 200412
Client Project : N/A
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641906 16A Ext House Roof North Analyst: Alice Turner	Shingle	Black/Red Non-Fibrous Homogenous	30% Fiberglass	70% Other	None Detected
641907 16B Ext House Roof East Analyst: Alice Turner	Shingle	Black/Red Non-Fibrous Homogenous	30% Fiberglass	70% Other	None Detected
641908 17A Ext House East Analyst: Alice Turner	Transite	White Non-Fibrous Homogenous	5% Cellulose	85% Other	10% Chrysotile
641909 17B Ext House East Analyst: Alice Turner		Not Analyzed			
641910 18A Ext House East Analyst: Alice Turner	House Wrap	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
641911 18B Ext House East Analyst: Alice Turner	House Wrap	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
641912 19A Ext House East Analyst: Alice Turner	Vapor Barrier	Black Fibrous Homogenous	95% Cellulose	5% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

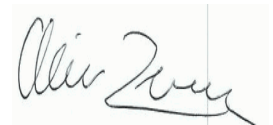
Location :
 318 Isbell St, Lansing, MI 48910

ETC Job : 200412
Client Project : N/A
Date Collected : 12/19/2017
Date Received : 12/21/2017
Date Analyzed : 12/21/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641913 19B Ext House NE Analyst: Alice Turner	Vapor Barrier	Black Fibrous Homogenous	95% Cellulose	5% Other	None Detected
641914 20A Ext House East Analyst: Alice Turner	Fiber Board	White Fibrous Homogenous	98% Cellulose	2% Other	None Detected
641915 20B Ext House NE Analyst: Alice Turner	Fiber Board	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
641916 21A RM 4 Center Ceiling Analyst: Alice Turner	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
641917 21B RM 4 West Ceiling Analyst: Alice Turner	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected



Lab Supervisor/Other Signatory



Analyst: Alice Turner

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.

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 200412

Client: ETC	Contact:	Project Location/Name: 318 Isabell
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	
	Fax: (734) 955-6604	
E-mail: results@2etl.com		Client Project #: 200412
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		Date Sampled: 12/19/17

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 ABC		
	02 ABCDE		
	03 ABC		
	04 AB		
	↓		
	21 AB		

	Date	Time
Relinquished (Name/Organization): <u>Wade Wilke</u>	12/19/17	
Received (Name/ETL): <u>Amira Elsmailj</u>	12.21.17	am/pm
Stereoscopical Analysis (Name/ETL): <u>Amir Sam</u>	12.20.17	am/pm
Sample Login (Name/ETL): <u>Amira Elsmailj</u>	12.21.17	am/pm
Analysis (Name/ETL): <u>Amir Sam</u>	12.20.17	am/pm
QA/QC Review (Name/ETL): <u>K J</u>	12/21/17	am/pm

Special Instructions: Please count anything 3% and under

Remarks:

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	200412		Building:	318 Isbell St			Date:	12/19/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #		
01	Material: Plaster gray	NF	A	South wall center Rm 4	Rm 4 south wall		041		
			B	SW wall Rm 4					
			C	SE wall Rm 4					
02	Material: Texture white	NF	A	Rm 2 south ceiling	Thro, shoot (ceilings)		074 075 076 077 078		
			B	Rm 3 east ceiling					
			C	Rm 5 west ceiling					
			D	Rm 10 center ceiling					
			E	Rm 11 center ceiling					
	Material:								

<1000 SF = 3 samples

1000 - <5000 . . .

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

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
	200412							
	Building: 318 Isbell St							
03	Material: Duct wrap grey		F	A	Rm 13 west duct ceiling	13	1	879
	Material: Description			B			SF	880
	Material: Description			C				881
	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 #:	200412		Building:	318 Isbell St		Date:	12/19/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
01	Material: Glue pod Description: yellow	NF	A	Rm 4 south wall	4			
02	Material: Drywall w/skin Description: white	NF	A	Rm 4 south wall	4			
03	Material: 12x12 floor tile Description: Cream	NF	A	Rm 3 east wall	Throughout			
04	Material: 12x12 Floor Tile Description: black/white	NF	A	Rm 5 west floor	3, 5			
05	Material: Cinderblock Description: grey	NF	A	Rm 6 south floor	6			
06	Material: Mortar Description: grey	NF	A	Rm 13 west wall	basement			
07	Material: Concrete floor Description: grey	NF	A	Rm 4 north wall	basement			
08	Material: Chimney Brick Description: grey	NF	A	Same as 08A	basement			
09	Material: stack cement Description: grey	NF	A	Same as 08B	basement			
10	Material: 12x12 floor tile Description: white	NF	A	Rm 13 center floor	basement			
11	Material: 12x12 floor tile Description: white	NF	A	Rm 13 south floor	basement			
12	Material: 12x12 floor tile Description: white	NF	A	Rm 13 chimney center	13			
13	Material: 12x12 floor tile Description: white	NF	A	Rm 13 chimney center	13			
14	Material: 12x12 floor tile Description: white	NF	A	Same as 11A	13			
15	Material: 12x12 floor tile Description: white	NF	A	Same as 11B	13			
16	Material: 12x12 floor tile Description: white	NF	A	NE floor Rm 13	13			
17	Material: 12x12 floor tile Description: white	NF	A	NF floor Rm 13	13			
18	Material: 12x12 floor tile Description: white	NF	A	NF floor Rm 13	13			

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.		Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Material no. #
	200412								
	Building: 318 Isbell St								
12		Material: Mastie Description: black	NF	A	Same as 13A	441			
15		Material: Shingle Description: black	NF	B	Same as 13B	902	13	9 SF	
16		Material: Shingle Description: teal/black	NF	A	RM 16 ext roof north	904	16		
17		Material: Shingle Description: teal/black	NF	B	RM 16 ext roof west	905			
18		Material: Transit Description: white	NF	A	ext house roof north	906			
18		Material: Transit Description: white	NF	B	ext house roof east	907			
19		Material: Hoop wrap Description: black	NF	A	ext house east	908	ext house		
19		Material: Hoop wrap Description: black	NF	B	ext house east	909	ext house		
20		Material: Vapor barrier Description: black	NF	A	ext house east	910	2nd floor siding		
20		Material: Vapor barrier Description: black	NF	B	ext no use east	911	2nd floor siding		
21		Material: Fiber board Description: white	NF	A	ext house east	912	ext house		
21		Material: Fiber board Description: white	NF	B	ext house NF	913	ext house		
22		Material: Ceiling Tie Description: white	NF	A	Same as 19A	914	ext house		
22		Material: Ceiling Tie Description: white	NF	B	Same as 19B	915	ext house		
		Material: Description		A	RM 4 center ceiling	916	4		
		Material: Description		B	RM 4 west ceiling	917	4		
		Material: Description		A					
		Material: Description		B					

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

Laboratory Analysis / Results

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

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

SIGNATURE

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



Prepared by: _____

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051