

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-32-126-152
House No:	1733 Holmes Rd, Lansing, MI 48910
Date Inspected:	12/22/2017
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information			
No. Stories	2	Garage	Detached
Square Footage	3240 SF	Garage Square Footage	315 SF
Basement Square Footage	1980 SF	Garage Siding	Wood
Siding	Vinyl	Garage Color	Brown
Color	Brown	Garage Shingles	Asphalt
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-32-126-152
House No. 1733 Holmes Rd, Lansing, MI 48910
Date Inspected: 12/22/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Tank	1	Room 15
TV Screens	1	Room 18
Light Ballasts	1	Room 20
Misc. Items (solvents, cleaners)	38	Room 1, 3, 4, 14, 15, 18
Paint Cans	29 (1 gallon)	Room 1, 4, 10, 13, 15, 17, 18
Thermostats	2	Room 3
Propane Tanks	1	Exterior (house)

TIRE(s) REPORT

Material	Quantity & Units	Location
Tires	2	Room 19, 20

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-32-126-152
 House No. 1733 Holmes Rd, 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
1	NF	Plaster, grey with skim coat	Room 1-5, 7, 8, 10-12	6080 SF	No
2	NF	Texture plaster, white	Room 1-3, 7, 8	1440 SF	YES
3	NF	12x12 Ceiling tile, white	Room 4, 5	74 SF	No
4	NF	Glue pod, brown	Room 4, 5	74 SF	No
5	NF	Ceiling tile, white with holes	Room 5, 6	223 SF	No
6	NF	Glue, yellow	Room 3	54 SF	No
7	NF	Linoleum, brown	Room 4, 13	192 SF	No
8	NF	Glue, tan/yellow	Room 4, 13	192 SF	No
9	NF	Linoleum, brown/tan	Room 3, 5	486 SF	No
10	NF	9x9 tile, tan	Room 7	180 SF	YES
11	NF	Mastic, black	Room 7	180 SF	YES
12	NF	9x9 tile, grey	Room 10	252 SF	YES
13	NF	Mastic, black	Room 10	252 SF	YES
14	NF	Cove base, brown	Room 3	12 SF	No
15	NF	Mastic, brown/tan	Room 3	12 SF	No
16	NF	Cove base, red	Room 7, 8	30 SF	No
17	NF	Mastic, white/tan	Room 7, 8	30 SF	No
18	NF	Cove base, brown	Room 7 (closet)	10 SF	No
19	NF	Mastic, brown	Room 7 (closet)	10 SF	No
20	NF	Ceiling tile, white	Room 18	693 SF	No
21	NF	Concrete floor, grey	Room 14-18	1980 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

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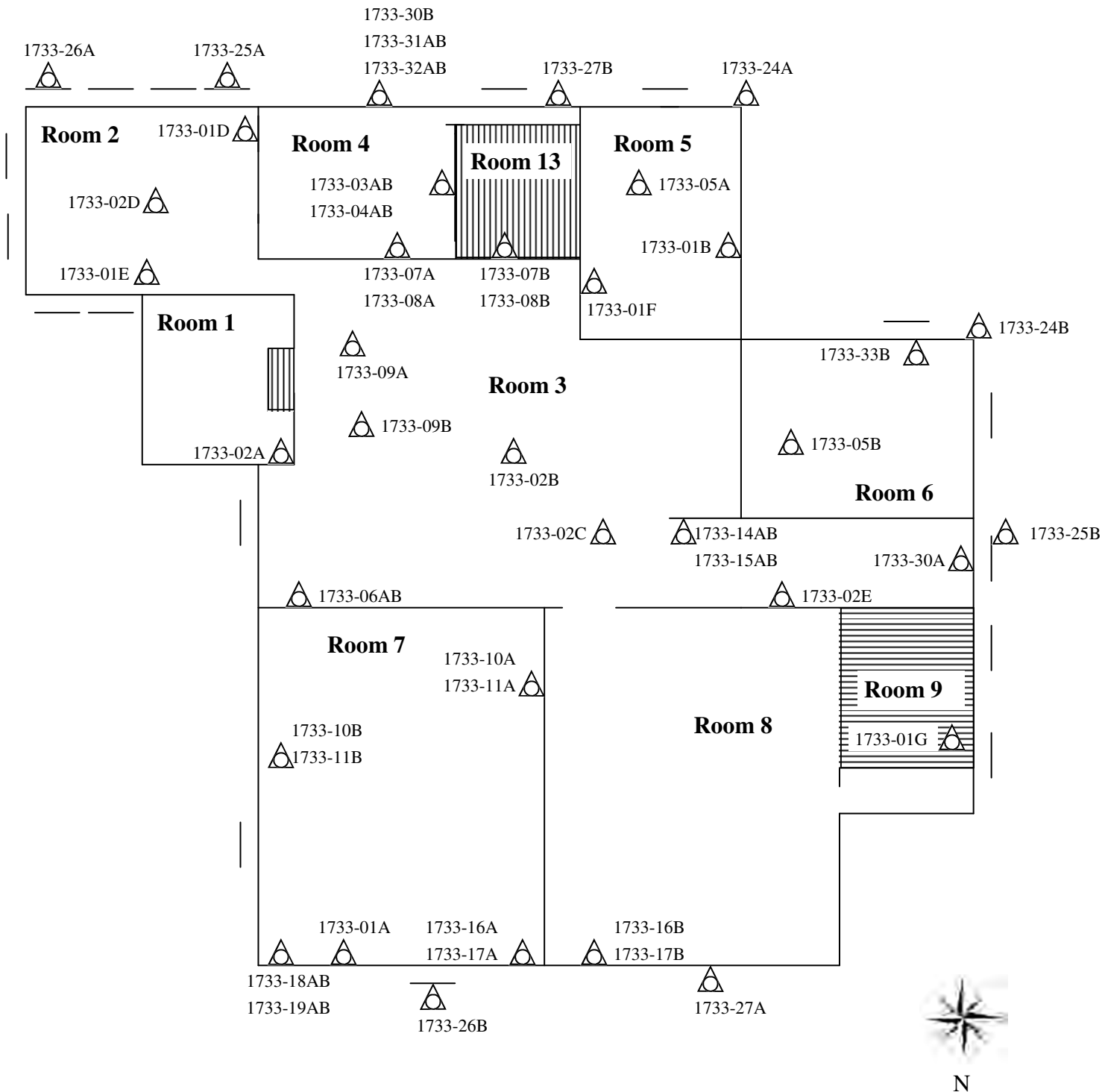
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
22	NF	Concrete, grey	Room 14-18	1116 SF	No
23	NF	Stack pipe cement, grey	Room 15	1 SF	No
24	NF	House wrap, black	Exterior (house)	4560 SF	No
25	NF	Window glaze, white	Exterior	19 windows	YES
26	NF	Window caulk, white	Exterior	23 windows	YES
27	NF	Shingle, black	Exterior (house)	3240 SF	No
28	NF	Shingle, black	Exterior (garage)	315 SF	No
29	NF	Garage floor concrete, grey	Exterior (garage)	315 SF	No
30	NF	Drywall, white	Room 3, south porch	180 SF	No
31	NF	Mud, white	Exterior (south porch)	40 SF	No
32	NF	Tape, white	Exterior (south porch)	40 SF	No
33	F	Blown in insulation, brown	Rooms 11, 12, outer walls	4812 SF	No

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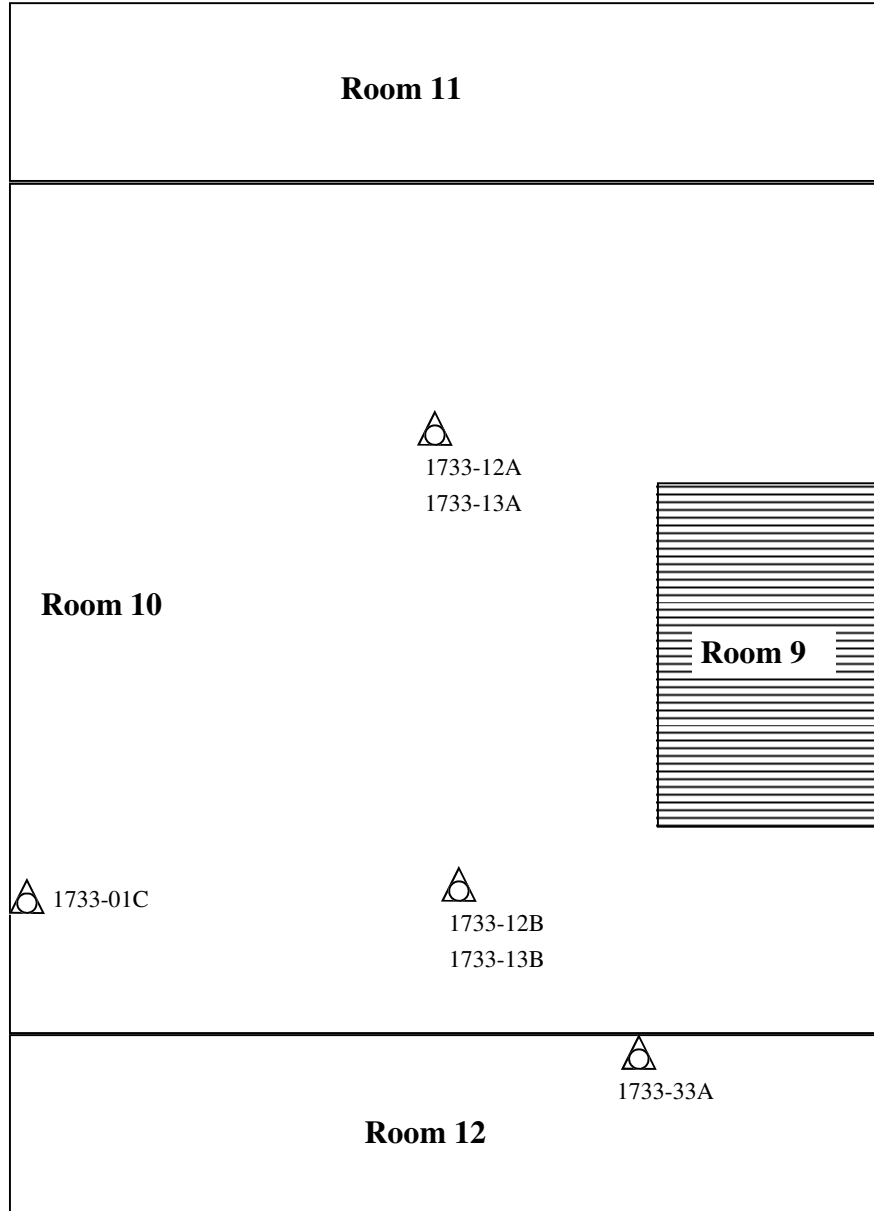
Attachment:

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.

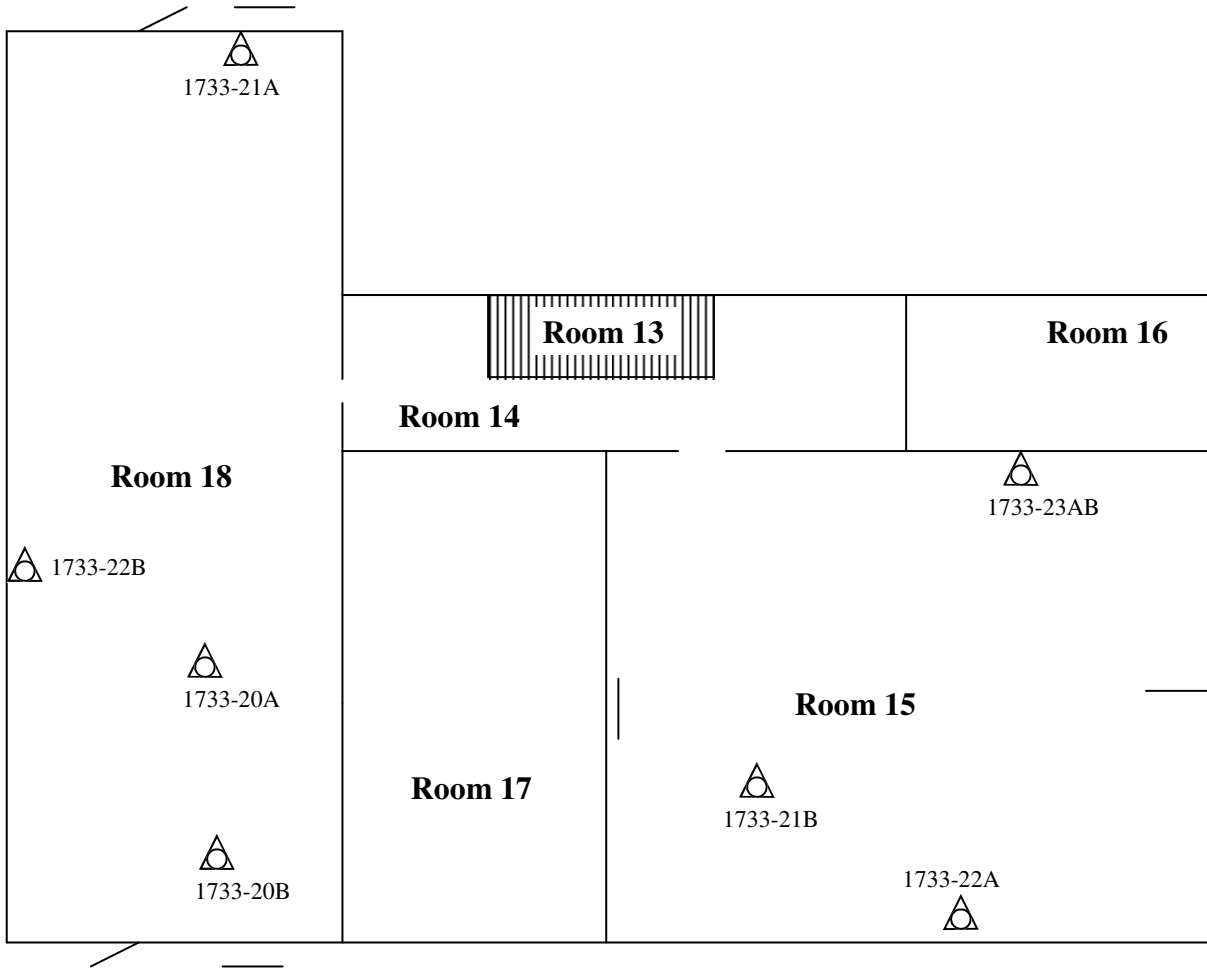


 Sample Location

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Basement

33-01-01-32-126-152
1733 Holmes Rd, Lansing, MI 48910
12/22/2017



N



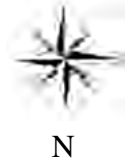
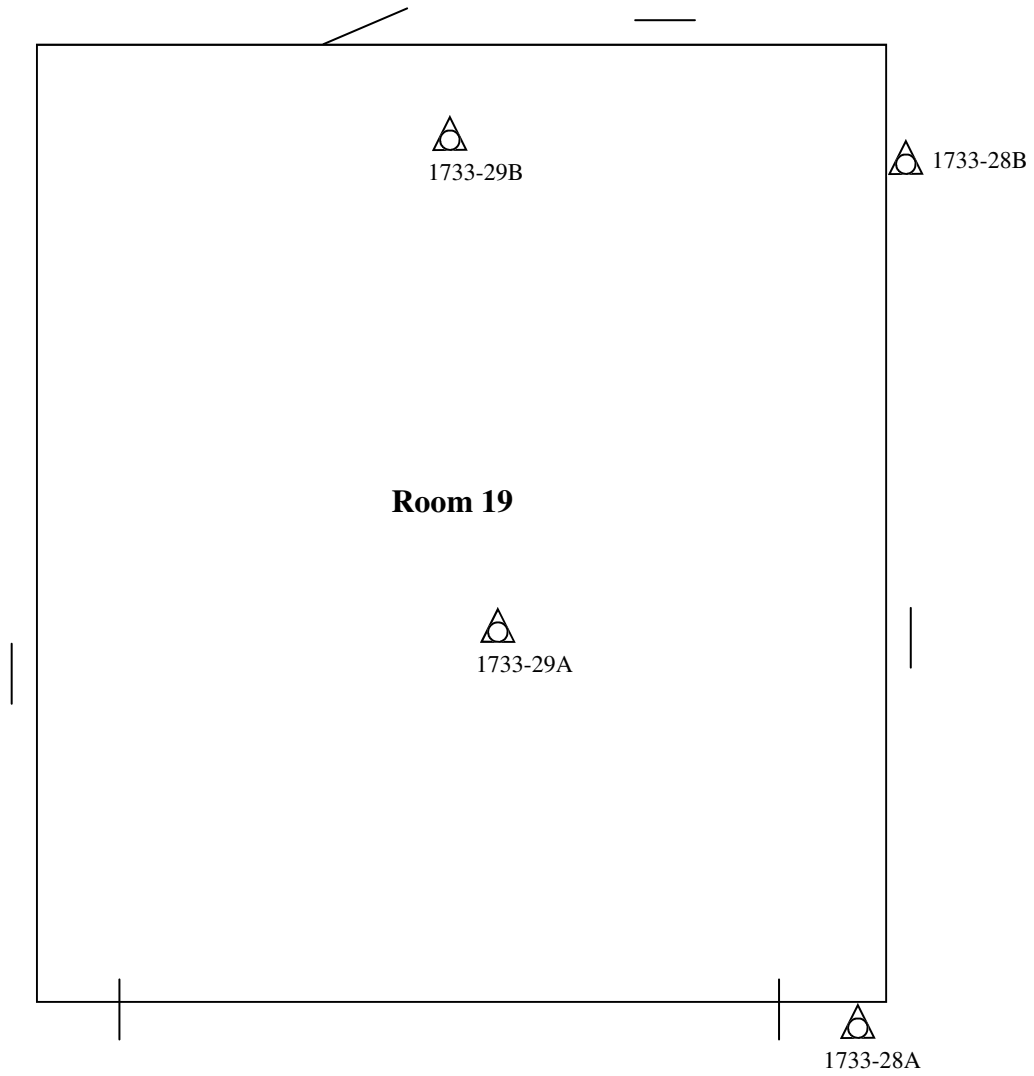
Sample Location


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Ingham County Land Bank
199878

Garage

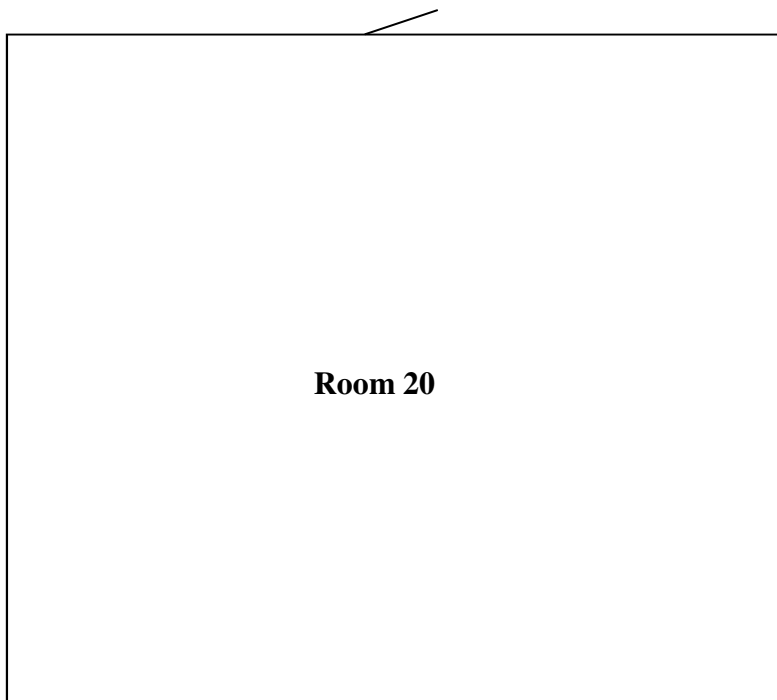
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1733 Holmes Rd, Lansing, MI 48910
12/22/2017



 Sample Location

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Ingham County Land Bank
199878



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: 33-01-01-32-126-152
House No. 1733 Holmes Rd, 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 House/Property

Parcel:	33-01-01-32-126-152
House No.	1733 Holmes Rd, Lansing, MI 48910
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Garage



Shed

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-32-126-152
House No. 1733 Holmes Rd, Lansing, MI 48910
Date Inspected: 12/22/2017



Hot Water Tank



TV Screens



Light Ballasts



Misc. Items (solvents, cleaners)

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-32-126-152
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Paint Cans



Thermostats



Tires



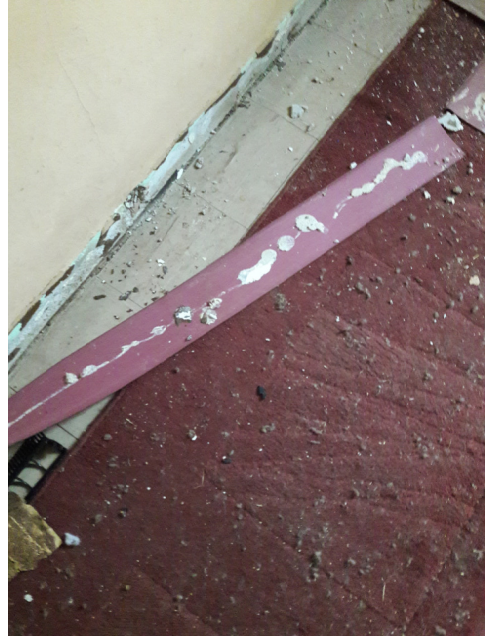
Propane Tanks

Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-32-126-152
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Texture Plaster



9x9 Tile, tan; Mastic, black



9x9 Tile, grey; Mastic, black



Window Glaze, white

Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-32-126-152
House No. 1733 Holmes Rd, Lansing, MI 48910
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Window Caulk, 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 :
1733 W Holmes Rd, Lansing, MI

Attention :

Client Project : 33-01-01-32-126-152

ETC Job : 199878

Report Date : 12/27/2017

Login #	Sample ID	Work Requested	Completed
643149	01A	Asbestos Analysis	12/27/2017
643150	01B	Asbestos Analysis	12/27/2017
643151	01C	Asbestos Analysis	12/27/2017
643152	01D	Asbestos Analysis	12/27/2017
643153	01E	Asbestos Analysis	12/27/2017
643154	01F	Asbestos Analysis	12/27/2017
643155	01G	Asbestos Analysis	12/27/2017
643156	02A	Asbestos Analysis	12/27/2017
643157	02B	Asbestos Analysis	12/27/2017
643158	02C	Asbestos Analysis	12/27/2017
643159	02D	Asbestos Analysis	12/27/2017
643160	02E	Asbestos Analysis	12/27/2017
643161	03A	Asbestos Analysis	12/27/2017
643162	03B	Asbestos Analysis	12/27/2017
643163	04A	Asbestos Analysis	12/27/2017
643164	04B	Asbestos Analysis	12/27/2017
643165	05A	Asbestos Analysis	12/27/2017
643166	05B	Asbestos Analysis	12/27/2017
643167	06A	Asbestos Analysis	12/27/2017
643168	06B	Asbestos Analysis	12/27/2017

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Login #	Sample ID	Work Requested	Completed
643169	07A	Asbestos Analysis	12/27/2017
643170	07B	Asbestos Analysis	12/27/2017
643171	08A	Asbestos Analysis	12/27/2017
643172	08B	Asbestos Analysis	12/27/2017
643173	09A	Asbestos Analysis	12/27/2017
643174	09B	Asbestos Analysis	12/27/2017
643175	10A	Asbestos Analysis	12/27/2017
643176	10B	Asbestos Analysis	12/27/2017
643177	11A	Asbestos Analysis	12/27/2017
643178	11B	Asbestos Analysis	12/27/2017
643179	12A	Asbestos Analysis	12/27/2017
643180	12B	Asbestos Analysis	12/27/2017
643181	13A	Asbestos Analysis	12/27/2017
643182	13B	Asbestos Analysis	12/27/2017
643183	14A	Asbestos Analysis	12/27/2017
643184	14B	Asbestos Analysis	12/27/2017
643185	15A	Asbestos Analysis	12/27/2017
643186	15B	Asbestos Analysis	12/27/2017
643187	16A	Asbestos Analysis	12/27/2017
643188	16B	Asbestos Analysis	12/27/2017
643189	17A	Asbestos Analysis	12/27/2017
643190	17B	Asbestos Analysis	12/27/2017
643191	18A	Asbestos Analysis	12/27/2017
643192	18B	Asbestos Analysis	12/27/2017
643193	19A	Asbestos Analysis	12/27/2017
643194	19B	Asbestos Analysis	12/27/2017
643195	20A	Asbestos Analysis	12/27/2017

Login #	Sample ID	Work Requested	Completed
643196	20B	Asbestos Analysis	12/27/2017
643197	21A	Asbestos Analysis	12/27/2017
643198	21B	Asbestos Analysis	12/27/2017
643199	22A	Asbestos Analysis	12/27/2017
643200	22B	Asbestos Analysis	12/27/2017
643201	23A	Asbestos Analysis	12/27/2017
643202	23B	Asbestos Analysis	12/27/2017
643203	24A	Asbestos Analysis	12/27/2017
643204	24B	Asbestos Analysis	12/27/2017
643205	25A	Asbestos Analysis	12/27/2017
643206	25B	Asbestos Analysis	12/27/2017
643207	26A	Asbestos Analysis	12/27/2017
643208	26B	Asbestos Analysis	12/27/2017
643209	27A	Asbestos Analysis	12/27/2017
643210	27B	Asbestos Analysis	12/27/2017
643211	28A	Asbestos Analysis	12/27/2017
643212	28B	Asbestos Analysis	12/27/2017
643213	29A	Asbestos Analysis	12/27/2017
643214	29B	Asbestos Analysis	12/27/2017
643215	30A	Asbestos Analysis	12/27/2017
643216	30B	Asbestos Analysis	12/27/2017
643217	31A	Asbestos Analysis	12/27/2017
643218	31B	Asbestos Analysis	12/27/2017
643219	32A	Asbestos Analysis	12/27/2017
643220	32B	Asbestos Analysis	12/27/2017
643221	33A	Asbestos Analysis	12/27/2017
643222	33B	Asbestos Analysis	12/27/2017

Login #

Sample ID

Work Requested

Completed

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1733 W Holmes Rd, Lansing, MI

ETC Job : 199878
Client Project : 33-01-01-32-126-152
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643149 01A Rm 7 N Wall Layer-1 Analyst: Emily Regan	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643149 01A Rm 7 N Wall Layer-2 Analyst: Emily Regan	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643150 01B Rm 5 W Wall Layer-1 Analyst: Emily Regan	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643150 01B Rm 5 W Wall Layer-2 Analyst: Emily Regan	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643151 01C Rm 10 E Wall Layer-1 Analyst: Emily Regan	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643151 01C Rm 10 E Wall Layer-2 Analyst: Emily Regan	Skim	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643152 01D W Wall Rm 2 Layer-1 Analyst: Emily Regan	Plaster	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
643152 01D W Wall Rm 2 Layer-2 Analyst: Emily Regan	Skim	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Certificate of Analysis

Environmental Testing Laboratories, Inc.
38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
1733 W Holmes Rd, Lansing, MI

ETC Job : 199878
Client Project : 33-01-01-32-126-152
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643153 01E Rm 2 Ceiling N Analyst: Emily Regan No Skim Present; Has Different Texture	Plaster	Grey Fibrous Homogenous	3% Cellulose	82% Other	15% Chrysotile
643154 01F Rm 5 E Wall Layer-1 Analyst: Emily Regan	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643154 01F Rm 5 E Wall Layer-2 Analyst: Emily Regan	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643155 01G Rm 1 W Wall Layer-1 Analyst: Emily Regan	Plaster	Grey Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643156 02A Rm 1 N Ceiling Layer-1 Analyst: Emily Regan	Texture	White Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643156 02A Rm 1 N Ceiling Layer-2 Analyst: Emily Regan	Plaster	Grey Fibrous Homogenous		97.5% Other	PC 2.5% Chrysotile

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1733 W Holmes Rd, Lansing, MI

ETC Job : 199878
Client Project : 33-01-01-32-126-152
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643157 02B Rm 3 Center Ceiling Layer-1 Analyst: Emily Regan	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643157 02B Rm 3 Center Ceiling Layer-2 Analyst: Emily Regan Has Different Texture	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643157 02B Rm 3 Center Ceiling Layer-3 Analyst: Emily Regan	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643158 02C Rm 3 W Ceiling Layer-1 Analyst: Emily Regan	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643158 02C Rm 3 W Ceiling Layer-2 Analyst: Emily Regan	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
643158 02C Rm 3 W Ceiling Layer-3 Analyst: Emily Regan	Tape	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643159 02D Rm 2 Center Ceiling Layer-1 Analyst: Emily Regan	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643159 02D Rm 2 Center Ceiling Layer-2 Analyst: Emily Regan	Plaster	Grey Non-Fibrous Homogenous		97.75% Other	PC 2.25% Chrysotile

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Polarized Light Microscopy Asbestos Analysis Report

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 Romulus, MI 48174

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 1733 W Holmes Rd, Lansing, MI

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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
643160 02E Rm 3 N Ceiling Layer-1 Analyst: Emily Regan	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643160 02E Rm 3 N Ceiling Layer-2 Analyst: Emily Regan	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
643160 02E Rm 3 N Ceiling Layer-3 Analyst: Emily Regan	Tape	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643161 03A Rm 4 N Ceiling Analyst: Emily Regan	12x12 Ceiling Tile	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643162 03B Rm 4 N Ceiling Analyst: Emily Regan	12x12 Ceiling Tile	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643163 04A Rm 4 N Ceiling Analyst: Emily Regan	Glue Pod	Brown Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643164 04B Rm 4 N Ceiling Analyst: Emily Regan	Glue Pod	Brown Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643165 05A Rm 5 Center Ceiling Analyst: Emily Regan	Ceiling Tile	White Fibrous Homogenous	10% Cellulose 70% Fiberglass	20% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1733 W Holmes Rd, Lansing, MI

ETC Job : 199878
Client Project : 33-01-01-32-126-152
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643166 05B Rm 6 Center Ceiling Analyst: Emily Regan	Ceiling Tile	White Fibrous Homogenous	15% Cellulose 65% Fiberglass	20% Other	None Detected
643167 06A Rm 3 N Wall Analyst: Emily Regan	Glue	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643168 06B Rm 3 N Wall Analyst: Emily Regan	Glue	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643169 07A Rm 4 N Floor Analyst: Emily Regan	Linoleum	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643170 07B Rm 13 Stair (Top) Analyst: Emily Regan	Linoleum	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643171 08A Rm 4 N Floor Analyst: Emily Regan	Glue	Yellow/Tan Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643172 08B Rm 13 Stair (Top) Analyst: Emily Regan	Glue	Yellow/Tan Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
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ETC Job : 199878
Client Project : 33-01-01-32-126-152
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643173 09A Rm 3 S Floor Analyst: Emily Regan	Linoleum	Brown/Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643174 09B Rm 3 Center Floor Analyst: Emily Regan	Linoleum	Brown/Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643175 10A Rm 7 Center Floor Analyst: Emily Regan	9x9 Tile	Tan Non-Fibrous Homogenous	1% Cellulose	96% Other	3% Chrysotile
643176 10B Rm 7 E Floor Analyst: Emily Regan		Not Analyzed			
643177 11A Rm 7 Center Floor Analyst: Emily Regan	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	95% Other	3% Chrysotile
643178 11B Rm 7 E Floor Analyst: Emily Regan		Not Analyzed			
643179 12A Rm 10 Center Floor Analyst: Emily Regan	9x9 Tile	Grey Non-Fibrous Homogenous	1% Cellulose	96% Other	3% Chrysotile

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :

1733 W Holmes Rd, Lansing, MI

ETC Job : 199878

Client Project : 33-01-01-32-126-152

Date Collected : 12/22/2017

Date Received : 12/26/2017

Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643180 12B Rm 10 N Floor Analyst: Emily Regan		Not Analyzed			
643181 13A Rm 10 Center Floor Analyst: Emily Regan	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	95% Other	3% Chrysotile
643182 13B Rm 10 N Floor Analyst: Emily Regan		Not Analyzed			
643183 14A Rm 3 S Wall Analyst: Emily Regan	Covebase	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643184 14B Rm 3 S Wall Analyst: Emily Regan	Covebase	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643185 15A Rm 3 S Wall Analyst: Emily Regan	Mastic	Brown Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643186 15B Rm 3 S Wall Analyst: Emily Regan	Mastic	Brown 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 :
 1733 W Holmes Rd, Lansing, MI

ETC Job : 199878
Client Project : 33-01-01-32-126-152
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643187 16A Rm 7 N Wall Analyst: Emily Regan	Covebase	Red Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643188 16B Rm 8 E Wall Analyst: Emily Regan	Covebase	Red Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643189 17A Rm 7 N Wall Analyst: Emily Regan	Mastic	White/Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643190 17B Rm 8 E Wall Analyst: Emily Regan	Mastic	White/Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643191 18A Rm 7 Closet Wall Analyst: Emily Regan	Covebase	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643192 18B Rm 7 Closet Wall Analyst: Emily Regan	Covebase	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643193 19A Rm 7 Closet Wall Analyst: Emily Regan	Mastic	Brown 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 :
 1733 W Holmes Rd, Lansing, MI

ETC Job : 199878
Client Project : 33-01-01-32-126-152
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643194 19B Rm 7 Closet Wall Analyst: Emily Regan	Mastic	Brown Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643195 20A Rm 18 Center Ceiling Analyst: Emily Regan	Ceiling Tile	White Fibrous Homogenous	25% Cellulose 40% Fiberglass	35% Other	None Detected
643196 20B Rm 18 N Ceiling Analyst: Emily Regan	Ceiling Tile	White Fibrous Homogenous	25% Cellulose 40% Fiberglass	35% Other	None Detected
643197 21A Rm 18 S Floor Analyst: Emily Regan	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643198 21B Rm 15 Center Floor Analyst: Emily Regan	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643199 22A Rm 15 N Wall Analyst: Emily Regan	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643200 22B Rm 18 E Wall Analyst: Emily Regan	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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 Romulus, MI 48174

Location :

1733 W Holmes Rd, Lansing, MI

ETC Job : 199878

Client Project : 33-01-01-32-126-152

Date Collected : 12/22/2017

Date Received : 12/26/2017

Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643201 23A Rm 15 S Wall Analyst: Sarah Poirier	Stack Cement	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643202 23B Rm 15 S Wall Analyst: Sarah Poirier	Stack Cement	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643203 24A S Wall Ext House Analyst: Sarah Poirier	House Wrap	Black Fibrous Homogenous	60% Cellulose	40% Other	None Detected
643204 24B W Wall Ext House Analyst: Sarah Poirier	House Wrap	Black Fibrous Homogenous	65% Cellulose	35% Other	None Detected
643205 25A E Window Ext S Analyst: Sarah Poirier	Window Glaze	White Non-Fibrous Homogenous	0.5% Cellulose	98% Other	PC 1.5% Chrysotile
643206 25B W Window Ext Analyst: Sarah Poirier		Not Analyzed			
643207 26A S Window Ext Analyst: Sarah Poirier	Window Caulk	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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 38900 Huron River Drive
 Romulus, MI 48174

Location :

1733 W Holmes Rd, Lansing, MI

ETC Job : 199878

Client Project : 33-01-01-32-126-152

Date Collected : 12/22/2017

Date Received : 12/26/2017

Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643208 26B N Window Ext Analyst: Sarah Poirier	Window Caulk	White Non-Fibrous Homogenous		100% Other	None Detected
643209 27A N Roof Ext House Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	10% Fiberglass	90% Other	None Detected
643210 27B S Roof Ext House Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	1% Cellulose 10% Fiberglass	89% Other	None Detected
643211 28A N Roof Ext Garage Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
643212 28B W Roof Ext House Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	1% Cellulose 15% Fiberglass	84% Other	None Detected
643213 29A Rm 19 Center Floor Analyst: Sarah Poirier	Garage Floor Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643214 29B Rm 19 S Floor Analyst: Sarah Poirier	Garage Floor Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive
 Romulus, MI 48174

Location :
 1733 W Holmes Rd, Lansing, MI

ETC Job : 199878
Client Project : 33-01-01-32-126-152
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643215 30A Rm 3 W Wall Layer-1 Analyst: Sarah Poirier	Drywall	White Non-Fibrous Homogenous	2% Cellulose 1% Fiberglass	97% Other	None Detected
643216 30B Ext House Porch S Ceiling Analyst: Sarah Poirier	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643217 31A S Porch Ceiling Ext House Analyst: Sarah Poirier	Mud	White Non-Fibrous Homogenous		100% Other	None Detected
643218 31B S Porch Ceiling Ext House Analyst: Sarah Poirier	Mud	White Non-Fibrous Homogenous		100% Other	None Detected
643219 32A S Porch Ceiling Ext House Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	98% Cellulose	2% Other	None Detected
643220 32B S Porch Ceiling Ext House Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	98% Cellulose	2% Other	None Detected
643221 33A Rm 12 S Floor Analyst: Sarah Poirier	Blown-In Insulation	Brown Fibrous Homogenous	99% Cellulose	1% 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 :
 1733 W Holmes Rd, Lansing, MI

ETC Job : 199878
Client Project : 33-01-01-32-126-152
Date Collected : 12/22/2017
Date Received : 12/26/2017
Date Analyzed : 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643222 33B Rm 6 S Wall Analyst: Sarah Poirier	Blown-In Insulation	Brown Fibrous Homogenous	99% Cellulose	1% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Emily Regan



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 #: 199878

Client: ETC	Contact:	Project Location/Name: 1733 W Holmes Rd, Lansing MI
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 #:
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) 3 days

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> 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
	O1A-G		
	O2A-E		
	O3A-B		
	↓		
	33A-B		

	Date	Time
Relinquished (Name/Organization): <u>HTS</u>	12/22/17	5:30 am/pm
Received (Name/ETL): <u>Brittany Walls</u>	12/26/17	am/pm
Stereoscopical Analysis (Name/ETL): <u>Emily Regan Sarah Korman</u>	12/26/17	am/pm
Sample Login (Name/ETL): <u>Kylene SA</u>	12/26/17	am/pm
Analysis (Name/ETL): <u>Emily Regan Sarah Korman</u>	12/26/17	am/pm
QA/QC Review (Name/ETL): <u>R</u>	12/27/17	am/pm

Special Instructions: please point count 2% or less

Remarks:

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building:		Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		
199878				1733 W Holmes Rd Lansing MI	12/22/17	
0	Material: plaster w/skim	NF	A	Rm 7 north wall	1, 2, 3	63
			B	Rm 5 west wall	4, 8, 7	
			C	Rm 10 east wall	5, 10	
			D	west wall Rm 2	11, 12	
			E	Rm 2 ceiling north		
			F	Rm 5 east wall		
			G	Rm 9 west wall		
0	Material: Texture white	NF	A	Rm 1 north ceiling	1, 2, 3	50
			B	Rm 3 center ceiling	all at ceiling	
			C	Rm 3 west ceiling		
			D	Rm 2 center ceiling		
			E	Rm 3 center ceiling	7, 8	
	Material:					

<1000 SF = 3 samples

1000 - <5000 = 5 samples

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building: 1733 W Holmes Rd, Lansing		Sample Location	Date: 12/22/17	Material Located throughout bidg (Please List all Rooms)		Quantity	Picture #
			Friable (F) / Non-Friable (NF)	Sample Letter						
03		Material: 12x12 ceiling Tile	NF	A	Rm 4 north ceiling	1101	4, 5	24 SF	68	
		Description: white								
04		Material: Glue pod	NF	A	Same as 03A	1101	4, 5	74 SF	68	
		Description: brown								
05		Material: Ceiling Tile	NF	A	Rm 5 center ceiling	514	5, 6	223 SF	53	
		Description: white w/ holes								
06		Material: Glue	NF	A	Rm 3 center ceiling	73	3	84 SF	49	
		Description: yellow								
07		Material: Linoleum	NF	A	Rm 3 north wall	109	4, 13	192 SF	45	
		Description: brown								
08		Material: Glue	NF	A	Same as 07A	171	4, 13	192 SF	45	
		Description: yellow/tan								
09		Material: Linoleum	NF	A	Same as 07B	172	3, 5	486 SF	44	
		Description: brown/tan								
10		Material: 9x9 Tile	NF	A	Rm 3 center floor	174	7	180 SF	58	
		Description: tan								
11		Material: Mastic	NF	A	Same as 10A	177	7	180 SF	58	
		Description: black								
12		Material: 9x9 Tile	NF	A	Same as 10B	178	7	180 SF	58	
		Description: gray								
					Rm 10 north floor	180	10	252 SF	60	

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building:	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199878	13	Material: Mastic Description: black	1735 W Holmes Rd, Lansing	NF	A	Same as 12A (64318)	12/22/17	10	252 SF	60
	14	Material: Red brown Description: Red brown		NF	A	Same as 12B				
	15	Material: Mastic Description: brown/tan		NF	A	Rm 3 south wall		3	12 SF	48
	16	Material: Covebase Description: Red		NF	A	Same as 14A		3	12 SF	48
	17	Material: Mastic Description: white/tan		NF	A	Rm 7 north wall		7, 8	30 SF	58
	18	Material: Covebase Description: brown		NF	A	Same as 16A		7, 8	30 SF	58
	19	Material: Mastic Description: brown		NF	A	Rm 7 closet wall		Rm 7 closet	10 SF	71
	20	Material: Ceiling Tile Description: white		NF	A	Same as 18B		Rm 7 closet	10 SF	71
	21	Material: Concrete floor Description: grey		NF	A	Rm 18 center ceiling		18	603 SF	33
	22	Material: Concrete Description: grey		NF	A	Rm 18 north ceiling		14-18	1980 SF	33
					B	Rm 18 south floor		14-18	1116 SF	32
					A	Rm 15 center floor				
					B	Rm 15 north wall				
					A	Rm 18 east wall				
					B	Rm 18 east wall				

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 #
199878	Building: 1733 W Holmes Rd Lansing MI					Date: 12/22/17		
23	Material: Stack pipe cement Description: grey	NF	A	Rm 15 south wall 6432015			1 SF	72
24	Material: House wrap Description: black	NF	A	Rm 15 south wall 202				
25	Material: windows Glaze Description: white	NF	A	South wall ext house 203	ext		456 SF	42
26	Material: window caulk Description: white	NF	B	best wall ext house 204	house		19 units	41
27	Material: House Shingle Description: black	NF	A	Best windows ext south 205	ext		204	46
28	Material: Shingle Description: black	NF	B	best window ext 206	window		23	
29	Material: Garage floor Concrete Description: grey	NF	A	South window ext 207	ext		3240 SF	7
30	Material: Dry wall Description: white	NF	B	North window ext 208	window		315 SF	6
31	Material: Mud Description: white	NF	A	north roof ext house 209	ext		315 SF	35
32	Material: Tape Description: white	NF	B	South roof ext house 210	house		180 SF	47
			A	North roof ext garage 211	ext		40 SF	47
			B	West roof ext house 212	garage		40 SF	47
			A	Rm 19 enter floor 213	ext		40 SF	47
			B	Rm 19 south floor 214	garage		40 SF	47
			A	Rm 3 west wall 215	ext		40 SF	47
			B	Ext house porch south ceiling 216	garage		40 SF	47
			A	South porch ceiling ext house 217	3 west wall & south porch ceiling		40 SF	47
			B	South porch ceiling ext house 218	South porch ceiling		40 SF	47
			A	Same as 217	South porch ceiling		40 SF	47
			B	Same as 218	South porch ceiling		40 SF	47

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building:	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199878	23	Material: Blown-In Ins Description: brown	1733 W Holmes Rd	A	Rm 13 south floor	12/22/17	64321112	upst	61
		Material: Description		B	Rm @ south wall		and outer walls		
		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:	33-01-01-32-353-283
House No:	5014 Christiansen, Lansing, MI 48910
Date Inspected:	11/28/2017 & 2/15/2018
Inspected By:	Jake Gleason
Inspectors State Card #	A-49991

Building Information

No. Stories	1	Garage	Detached
Square Footage	900 SF	Garage Square Footage	350 SF
Basement Square Footage	900 SF	Garage Siding	Wood
Siding	Aluminum	Garage Color	White
Color	White	Garage Shingles	Asphalt Shingle
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	No	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-32-353-283
House No. 5014 Christiansen, Lansing, MI 48910
Date Inspected: 11/28/2017 & 2/15/2018

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
TV Screens	1	Room 4
Light Ballasts	1	Room 10
Paint Cans	4 (2-1 gallon, 2-5 gallon)	Room 10

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-32-353-283
 House No. 5014 Christiansen, Lansing, MI 48910
 Date Inspected: 11/28/2017 & 2/15/2018

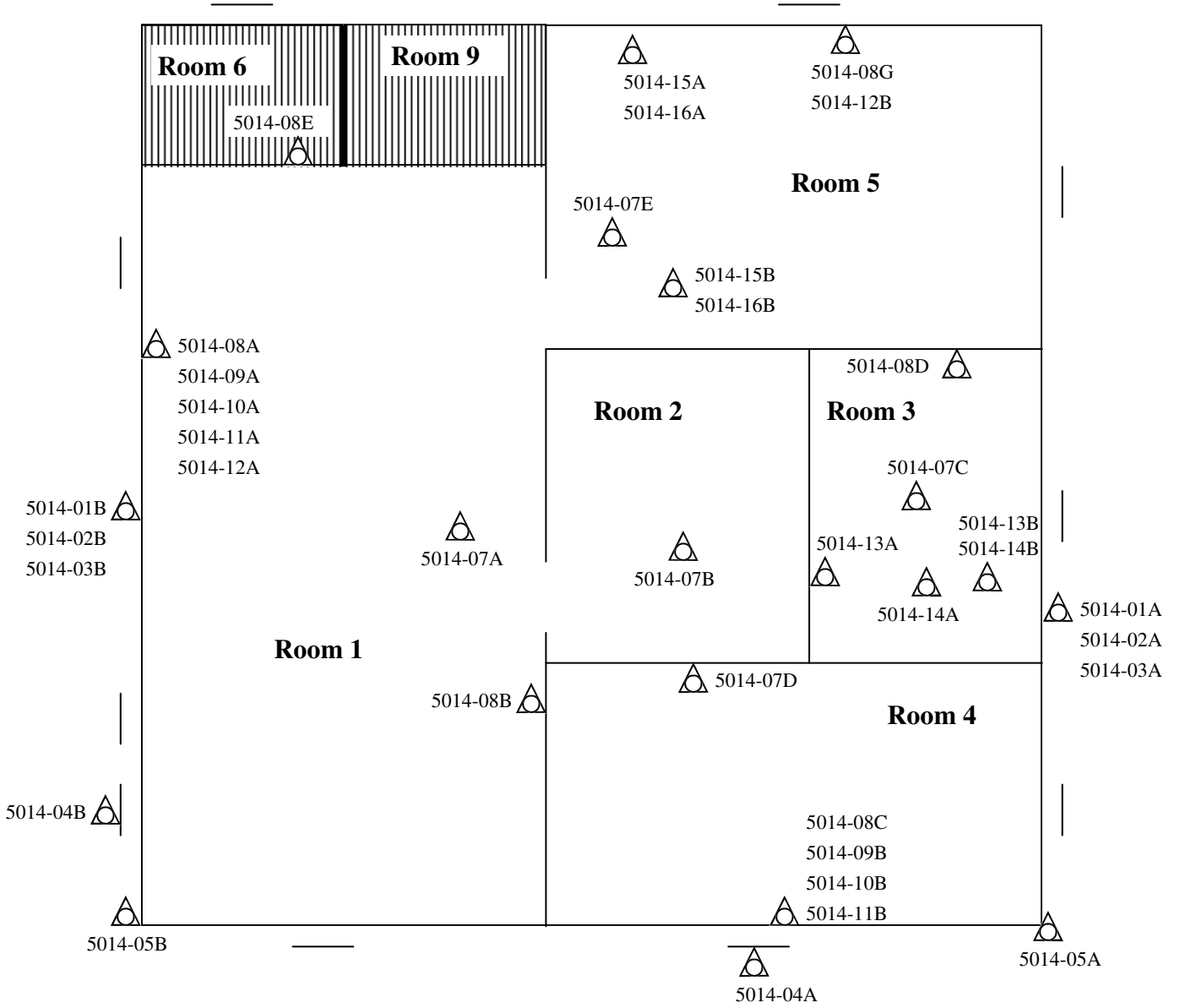
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Asphalt siding, grey/white	Exterior (house)	7500 SF	No
2	F	House wrap, black	Exterior (house)	7500 SF	No
3	F	Vapor barrier, silver	Exterior (house)	7500 SF	No
4	NF	Window glazing, white	Exterior (house)	14 SF	No
5	NF	Shingle, tan/black	Exterior (house)	1000 SF	No
6	NF	Shingle, green/black	Exterior (garage)	500 SF	No
7	NF	Skim coat, white	Throughout	1000 SF	No
8	NF	Plaster, grey	Throughout	5200 SF	No
9	F	Drywall, white	Throughout	5200 SF	No
10	F	Mud, white	Throughout	5200 SF	No
11	F	Tape, white	Throughout	5200 SF	No
12	F	Blown-in insulation, grey	Throughout	5200 SF	No
13	NF	12x12 Peel and stick, wood grain	Room 3	100 SF	No
14	NF	12x12 Peel and stick, white	Room 3	100 SF	No
15	F	Vapor barrier, black	Room 5	200 SF	No
16	NF	Mastic, yellow	Room 5	200 SF	No
17	NF	Stacked cement, grey	Room 10	4 SF	No
18	NF	Poured concrete, grey	Room 10	900 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.

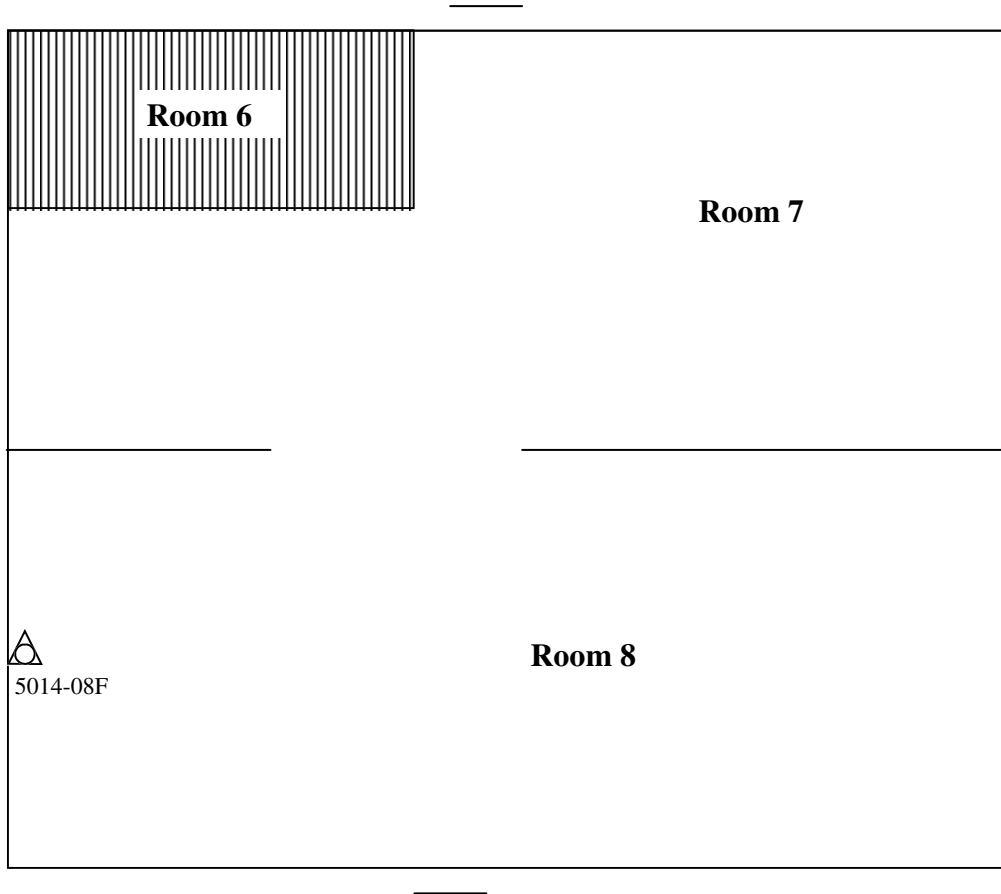
Attachment:

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.

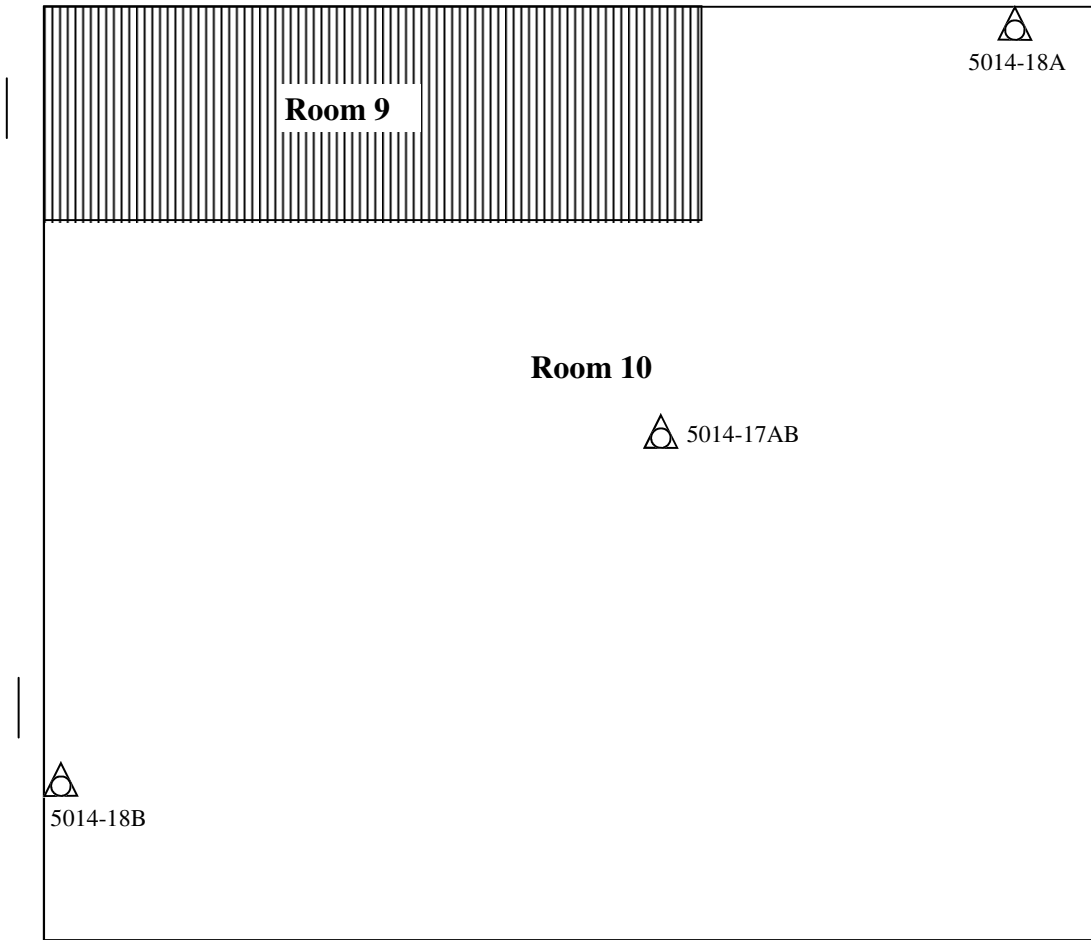



 Sample Location

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

33-01-01-32-353-283
5014 Christiansen, Lansing, MI 48910
11/28/2017 & 2/15/2018



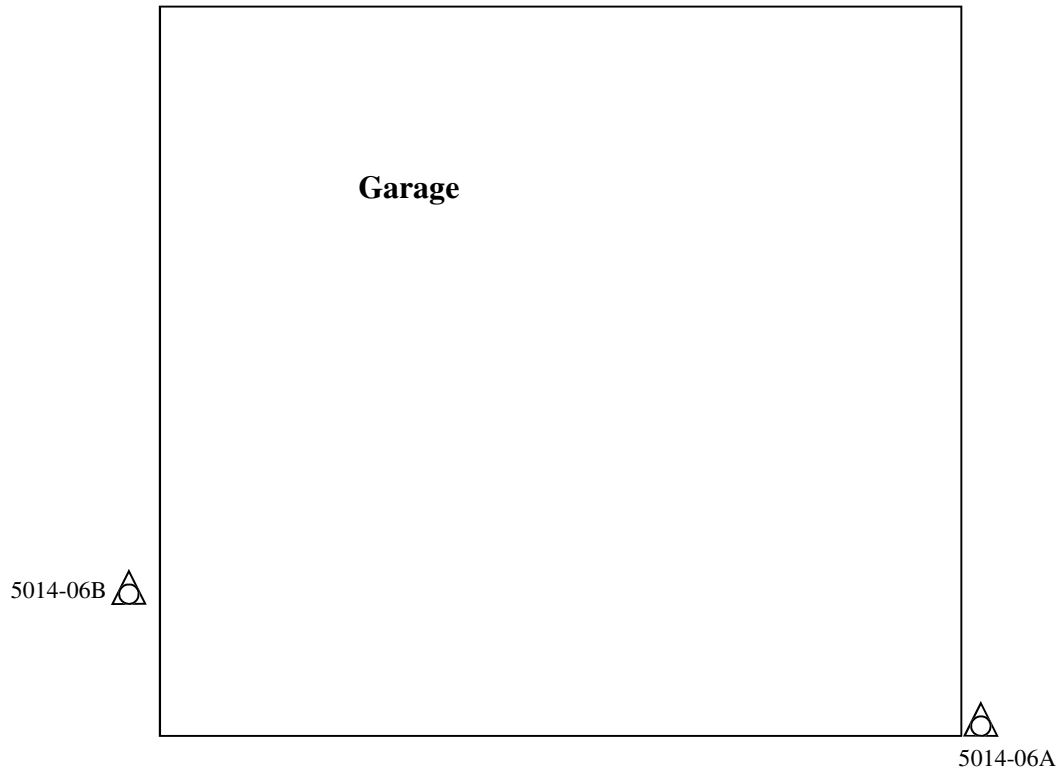
 Sample Location


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

Ingham County Land Bank
199879

Garage

33-01-01-32-353-283
5014 Christiansen, Lansing, MI 48910
11/28/2017 & 2/15/2018



 Sample Location

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

Ingham County Land Bank
199879

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-32-353-283
House No. 5014 Christiansen, Lansing, MI 48910
Date Inspected: 11/28/2017 & 2/15/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-01-32-353-283
House No.	5014 Christiansen, Lansing, MI 48910
Date Inspected:	11/28/2017 & 2/15/2018



Garage

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-32-353-283
House No. 5014 Christiansen, Lansing, MI 48910
Date Inspected: 11/28/2017 & 2/15/2018



TV Screens



Light Ballasts



Paint Cans

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 :
5014 Christensen, Lansing, MI

Attention :

Client Project : 33-01-01-32-353-283

ETC Job : 199879

Report Date : 2/19/2018

Login #	Sample ID	Work Requested	Completed
632645	01A	Asbestos Analysis	12/06/2017
632646	01B	Asbestos Analysis	12/06/2017
632647	02A	Asbestos Analysis	12/06/2017
632648	02B	Asbestos Analysis	12/06/2017
632649	03A	Asbestos Analysis	12/06/2017
632650	03B	Asbestos Analysis	12/06/2017
632651	04A	Asbestos Analysis	12/06/2017
632652	04B	Asbestos Analysis	12/06/2017
632653	05A	Asbestos Analysis	12/06/2017
632654	05B	Asbestos Analysis	12/06/2017
632655	06A	Asbestos Analysis	12/06/2017
632656	06B	Asbestos Analysis	12/06/2017
687634	7A	Asbestos Analysis	12/06/2017
687635	7B	Asbestos Analysis	02/19/2018
687636	7C	Asbestos Analysis	02/19/2018
687637	7D	Asbestos Analysis	02/19/2018
687638	7E	Asbestos Analysis	02/19/2018
687639	8A	Asbestos Analysis	02/19/2018
687640	8B	Asbestos Analysis	02/19/2018
687641	8C	Asbestos Analysis	02/19/2018

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

Login #	Sample ID	Work Requested	Completed
687642	8D	Asbestos Analysis	02/19/2018
687643	8E	Asbestos Analysis	02/19/2018
687644	8F	Asbestos Analysis	02/19/2018
687645	8G	Asbestos Analysis	02/19/2018
687646	9A	Asbestos Analysis	02/19/2018
687647	9B	Asbestos Analysis	02/19/2018
687648	10A	Asbestos Analysis	02/19/2018
687649	10B	Asbestos Analysis	02/19/2018
687650	11A	Asbestos Analysis	02/19/2018
687651	11B	Asbestos Analysis	02/19/2018
687652	12A	Asbestos Analysis	02/19/2018
687653	12B	Asbestos Analysis	02/19/2018
687654	13A	Asbestos Analysis	02/19/2018
687655	13B	Asbestos Analysis	02/19/2018
687656	14A	Asbestos Analysis	02/19/2018
687657	14B	Asbestos Analysis	02/19/2018
687658	15A	Asbestos Analysis	02/19/2018
687659	15B	Asbestos Analysis	02/19/2018
687660	16A	Asbestos Analysis	02/19/2018
687661	16B	Asbestos Analysis	02/19/2018
687662	17A	Asbestos Analysis	02/19/2018
687663	17B	Asbestos Analysis	02/19/2018
687664	18A	Asbestos Analysis	02/19/2018
687665	18B	Asbestos Analysis	02/19/2018

Login #

Sample ID

Work Requested

Completed

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5014 Christensen, Lansing, MI

ETC Job : 199879
Client Project : 33-01-01-32-353-283
Date Collected : 11/28/2017
Date Received : 12/01/2017
Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
632645 01A North Side Analyst: Renee Renauer	Asphalt Siding	Grey/White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
632646 01B South Side Analyst: Renee Renauer	Asphalt Siding	Grey/White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
632647 02A North Side Analyst: Renee Renauer	House Wrap	Black Fibrous Homogenous	98% Cellulose	2% Other	None Detected
632648 02B South Side Analyst: Renee Renauer	House Wrap	Black Fibrous Homogenous	98% Cellulose	2% Other	None Detected
632649 03A North Side Analyst: Renee Renauer	Vapor Barrier	Silver Fibrous Homogenous	100% Cellulose		None Detected
632650 03B South Side Analyst: Renee Renauer	Vapor Barrier	Silver Fibrous Homogenous	100% Cellulose		None Detected
632651 04A NW Windows Analyst: Madeline Palmer	Window Glaze	White Non-Fibrous Homogenous	0.25% Cellulose	100% Other 99.5% Other	PC 0.25% Chrysotile

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5014 Christensen, Lansing, MI

ETC Job : 199879
Client Project : 33-01-01-32-353-283
Date Collected : 11/28/2017
Date Received : 12/01/2017
Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
632652 04B SE Windows Analyst: Madeline Palmer	Window Glaze	Non-Fibrous Homogenous Gray Non-Fibrous Homogenous	0.5% Fiberglass	100% Other 99% Other	PC 0.5% Chrysotile
632653 05A North Side Analyst: Renee Renauer	House Shingle	Tan/Black Non-Fibrous Homogenous	7% Fiberglass	93% Other	None Detected
632654 05B South Side Analyst: Renee Renauer	House Shingle	Tan/Black Non-Fibrous Homogenous	7% Fiberglass	93% Other	None Detected
632655 06A North Side Analyst: Renee Renauer	Garage Shingle	Green/Black Non-Fibrous Homogenous	12% Fiberglass	88% Other	None Detected
632656 06B South Side Analyst: Renee Renauer	Garage Shingle	Green/Black Non-Fibrous Homogenous	12% Fiberglass	88% Other	None Detected
687634 7A RM1 Center Ceiling Layer-1 Analyst: Scott Larabell	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687634 7A RM1 Center Ceiling Layer-2 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5014 Christensen, Lansing, MI

ETC Job : 199879
Client Project : 33-01-01-32-353-283
Date Collected : 02/15/2018
Date Received : 02/16/2018
Date Analyzed : 02/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
687635 7B RM2 Center Ceiling Layer-1 Analyst: Scott Larabell	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687635 7B RM2 Center Ceiling Layer-2 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687636 7C RM3 Center Ceiling Layer-1 Analyst: Scott Larabell	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687636 7C RM3 Center Ceiling Layer-2 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687637 7D RM4 W Ceiling Layer-1 Analyst: Scott Larabell	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687637 7D RM4 W Ceiling Layer-2 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
687638 7E RM5 S Ceiling Layer-1 Analyst: Scott Larabell	Skim Coat	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
687638 7E RM5 S Ceiling Layer-2 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5014 Christensen, Lansing, MI

ETC Job : 199879
Client Project : 33-01-01-32-353-283
Date Collected : 02/15/2018
Date Received : 02/16/2018
Date Analyzed : 02/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
687639 8A RM1 S Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687639 8A RM1 S Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687640 8B RM1 S Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687640 8B RM1 S Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687641 8C RM4 E Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687641 8C RM4 E Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
687642 8D RM3 W Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687642 8D RM3 W Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5014 Christensen, Lansing, MI

ETC Job : 199879
Client Project : 33-01-01-32-353-283
Date Collected : 02/15/2018
Date Received : 02/16/2018
Date Analyzed : 02/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
687643 8E RM3 E Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687643 8E RM3 E Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687644 8F RM8 S Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687644 8F RM8 S Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
687645 8G RM5 W Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687645 8G RM5 W Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687646 9A RM1 S Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
687647 9B RM4 E Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5014 Christensen, Lansing, MI

ETC Job : 199879
Client Project : 33-01-01-32-353-283
Date Collected : 02/15/2018
Date Received : 02/16/2018
Date Analyzed : 02/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
687648 10A RM1 S Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687649 10B RM4 E Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687650 11A RM1 Analyst: Scott Larabell	Tape	White Fibrous Homogenous	3% Cellulose 90% Fiberglass	7% Other	None Detected
687651 11B RM4 E Wall Analyst: Scott Larabell	Tape	White Fibrous Homogenous	5% Cellulose 85% Fiberglass	10% Other	None Detected
687652 12A RM1 S Wall Analyst: Scott Larabell	Blown-In Insulation	Grey Fibrous Homogenous	80% Cellulose	20% Other	None Detected
687653 12B RM5 W Wall Analyst: Scott Larabell	Blown-In Insulation	Grey Fibrous Homogenous	85% Cellulose	15% Other	None Detected
687654 13A RM3 Entry Analyst: Scott Larabell	12x12 Peel and Stick	Wood Grain Non-Fibrous Homogenous	3% Cellulose	97% 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 :
 5014 Christensen, Lansing, MI

ETC Job : 199879
Client Project : 33-01-01-32-353-283
Date Collected : 02/15/2018
Date Received : 02/16/2018
Date Analyzed : 02/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
687655 13B RM3 by Tub Analyst: Scott Larabell	12x12 Peel and Stick	Wood Grain Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687656 14A RM3 Middle Analyst: Scott Larabell	12x12 Peel and Stick	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687657 14B RM3 by Tub Analyst: Scott Larabell	12x12 Peel and Stick	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687658 15A RM5 by Door Analyst: Scott Larabell	Vapor Barrier	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
687659 15B RM5 Entry Analyst: Scott Larabell	Vapor Barrier	Black Fibrous Homogenous	85% Cellulose	15% Other	None Detected
687660 16A RM5 by Door Analyst: Scott Larabell	Mastic	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
687661 16B RM5 Entry Analyst: Scott Larabell	Mastic	Yellow Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5014 Christensen, Lansing, MI

ETC Job : 199879
Client Project : 33-01-01-32-353-283
Date Collected : 02/15/2018
Date Received : 02/16/2018
Date Analyzed : 02/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
687662 17A RM10 Chimney Analyst: Scott Larabell	Stacked Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687663 17B RM10 Chimney Analyst: Scott Larabell	Stacked Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
687664 18A RM10 NW Corner Analyst: Scott Larabell	Poured Concrete	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
687665 18B RM10 SE Corner Analyst: Scott Larabell	Poured Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Madeline Palmer



Analyst: Renee Renauer



Analyst: Scott Larabell



Certificate of Analysis

Environmental Testing Laboratories, Inc.



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

Polarized Light Microscopy Asbestos Analysis Report

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

Location :

5014 Christensen, Lansing, MI

ETC Job : 199879

Client Project : 33-01-01-32-353-283

Date Collected : 02/15/2018

Date Received : 02/16/2018

Date Analyzed : 02/19/2018

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

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

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

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

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

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

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

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199879

Client: ETC	Contact: Liu Hagerman	Project Location/Name: 5014 Christensen Rd Lansing MI
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	Client Project #: 199879
E-mail: results@2etil.com		Date Sampled: 11/28/17
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		

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

PLM Instructions
 (Check all that apply)

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

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
632645	01 A, B		
		Please See Attached Sheets	
632656	06 A, B		

	Date	Time
Relinquished (Name/Organization): Jale Gleason	11/28/17	5:40 am/pm
Received (Name/ETL): <i>[Signature]</i>	12/1/17	am/pm
Stereoscopical Analysis (Name/ETL): <i>[Signature]</i>	12-4-17	am/pm
Sample Log in (Name/ETL): <i>[Signature]</i>	12/1/17	am/pm
Analysis (Name/ETL): <i>[Signature]</i>	12-4-17	am/pm
QA/QC Review (Name/ETL): <i>[Signature]</i>	12/4/17	am/pm

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

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	199879		Building:	5814 Christensen Rd, Casper		Date:	11/28/17	
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: ASPHALT SIDING	NF	A	NORTH SIDE 632645	EXT HOUSE	7500		
	Description: Gray/white		B	SOUTH SIDE 46				
02	Material: House wrap	F	A	NORTH SIDE 47	EXT HOUSE	7500		
	Description: Black		B	SOUTH SIDE 48				
03	Material: Vapor Barrier	F	A	NORTH SIDE 49	EXT. House	7500		
	Description: Silver		B	SOUTH SIDE 50				
04	Material: WINDOW GLAZING	NF	A	N W WINDOWS 51	EXT HOUSE	14		
	Description: white		B	S E WINDOWS 53				
05	Material: House Shingles	NF	A	NORTH SIDE 54	EXT. ROOF	1000		
	Description: TAN/BLACK		B	SOUTH SIDE 54				
06	Material: Garage Shingles	NF	A	NORTH SIDE 58	EXT. ROOF	500		
	Description: Green/Black		B	SOUTH SIDE 632656				
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					

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 #: 199879

Client: ETC	Contact: <u>Liv Hagerman</u>	Project Location/Name: <u>5014 Christensen, Lansing MI</u>
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	Client Project #: <u>199879</u>
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other	Fax: (734) 955-6604	Date Sampled: <u>2/15/18</u>
E-mail: results@2etl.com		

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

PLM Instructions
 (Check all that apply) 3 days

<input type="checkbox"/> PLM EPA800/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	<u>07</u>	<u>A-E</u>	
	<u>08</u>	<u>A-G</u>	
	<u>09 A,B</u>		
	<u>/</u>	<u>Please see Attached pages</u>	
	<u>18 A,B</u>		

	Name/Organization	Date	Time
Relinquished (Name/Organization):	<u>Jake Gleason ETC Group</u>	<u>2/15/18</u>	<u>5:00 am/pm</u>
Received (Name/ETL):	<u>[Signature]</u>	<u>2/16/18</u>	<u>11 am/pm</u>
Stereoscopical Analysis (Name/ETL):	<u>[Signature]</u>	<u>2-19-18</u>	<u>am/pm</u>
Sample Login (Name/ETL):	<u>Brittany Walls</u>	<u>2/16/18</u>	<u>12:37 am/pm</u>
Analysis (Name/ETL):	<u>[Signature]</u>	<u>2-19-18</u>	<u>am/pm</u>
QA/QC Review (Name/ETL):	<u>Brittany Walls</u>	<u>2/19/18</u>	<u>9:42 am/pm</u>

Special Instructions:	Remarks:
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Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building:			Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location				
199879				5014 Christensen, Lausing				2/15/18
	Material: <i>Shim Coat</i>							
7	<i>White</i>	NF	A	<i>rm 1 center ceiling 6034</i>		1000		
			B	<i>rm 2 center ceiling 6035</i>				
			C	<i>rm 3 center ceiling 6036</i>				
			D	<i>rm 4 W ceiling 6037</i>				
			E	<i>rm 5 S ceiling 6038</i>				
	Material: <i>Plaster</i>							
8	<i>Grey</i>	NF	A	<i>rm 1 S wall 6039</i>	<i>throughout</i>	5000		
			B	<i>rm 1 N wall 6040</i>				
			C	<i>rm 4 E wall 6041</i>				
			D	<i>rm 3 W wall 6042</i>				
			E	<i>rm 6 E wall 6043</i>				
			F	<i>rm 8 S wall 6044</i>				
			G	<i>rm 5 W wall 6045</i>				
	Material:							

<1000 SF = 3 samples

1000 - <5000 = 5 samples

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199879		Building:	5014 Christensen Larsing		Date:	2/5/18	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
9	Material: Drywall Description: white	F	A	rm 1 S wall 687646	throughout	5200		
	Material: mud Description: white	F	B	rm 4 E wall 6477	throughout	5200		
10	Material: tape Description: white	F	A	rm 1 S wall 6448	throughout	5200		
	Material: Blown-in-insulation Description: Grey	F	B	rm 4 E wall 6491	throughout	5200		
11	Material: 12x12 P+S Description: wood grain	NF	A	rm 1 S wall 6551	throughout	5200		
	Material: 12x12 P+S Description: white	NF	B	rm 4 E wall 6552	throughout	5200		
12	Material: vapor barrier Description: black	NF	A	rm 1 S wall 6553	throughout	5200		
	Material: mastic (under 9) Description: yellow	F	B	rm 5 W wall 6554	3	100		
13	Material: stacked cement Description: grey	NF	A	rm 3 entry 6555	3	100		
	Material: Paired concrete Description: grey	NF	B	rm 3 by tub 6556	3	100		
14	Material: mastic (under 9) Description: yellow	F	A	rm 3 middle 6557	5	200		
	Material: stacked cement Description: grey	NF	B	rm 3 by tub 6558	5	200		
15	Material: Paired concrete Description: grey	NF	A	rm 5 entry 6559	5	200		
	Material: Paired concrete Description: grey	NF	B	rm 5 by door 6600	5	200		
16	Material: Paired concrete Description: grey	NF	A	rm 5 entry 6601	10	4		
	Material: Paired concrete Description: grey	NF	B	rm 10 chimney 6602	10	4		
17	Material: Paired concrete Description: grey	NF	A	rm 10 chimney 6603	10	4		
	Material: Paired concrete Description: grey	NF	B	rm 10 drilled 6604	10	4		
18	Material: Paired concrete Description: grey	NF	A	rm 10 NW corner 6605	10	4		
	Material: Paired concrete Description: grey	NF	B	rm 10 SE corner 6605	10	4		

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

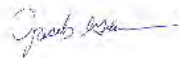
Laboratory Analysis / Results

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

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

SIGNATURE

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



Prepared by: _____

Jake Gleason , Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-49991

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-32-401-121
House No:	1118 Pierce Rd, Lansing, MI 48910
Date Inspected:	12/19/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	Detached
Square Footage	1350 SF	Garage Square Footage	1434 SF
Basement Square Footage	576 SF	Garage Siding	Wood
Siding	Vinyl/wood	Garage Color	White
Color	White	Garage Shingles	Asphalt
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-32-401-121
House No. 1118 Pierce Rd, Lansing, MI 48910
Date Inspected: 12/19/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Tank	1	Room 13
TV Screens/Electronics	7	Room 2, 4, 9, 13, 15
Paint Cans	15 (1 gallon)	Room 4, 12, 13, 16
Misc. Items (solvents, cleaners)	13	Room 2, 3, 4, 10
Smoke Detectors	2	Room 7, 9
Thermostats	1	Room 2

TIRE(s) REPORT

Material	Quantity & Units	Location
Tires	7	Exterior (house)

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-32-401-121
House No.	1118 Pierce Rd, Lansing, MI 48910
Date Inspected:	12/19/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Plaster, grey	Room 8-11	2542 SF	No
2	NF	Skim coat, white	Room 8-11	2542 SF	YES
3	NF	Texture, white	Room 2	360 SF	YES
4	F	Duct wrap, grey	Room 2	25 SF	YES
5	NF	Drywall, white	Room 1-7, 12	3076 SF	No
6	NF	12x12 Peel and stick, green	Room 4	80 SF	No
7	NF	12x12 Peel and stick, blue	Room 4	80 SF	No
8	NF	Tape, white	Throughout	1000 SF	No
9	NF	Mud, white	Throughout	1000 SF	No
10	NF	Fiberboard, brown	Room 5	96 SF	No
11	NF	12x12 Ceiling tile, white with swirl	Room 5	144 SF	No
12	NF	12x12 Ceiling tile, white	Room 6	70 SF	No
13	NF	Cinderblock, grey	Room 13	576 SF	No
14	NF	Mortar, grey	Room 13	400 SF	No
15	NF	Concrete, grey	Room 13	576 SF	No
16	NF	Linoleum, white	Room 10	96 SF	No
17	NF	Brick, red	Exterior (house)	384 SF	No
18	NF	Stack cement, grey	Exterior (house)	200 SF	No
19	NF	Foam paper, white/tan	Exterior (house)	3600 SF	No
20	NF	Foundation cement, grey	Exterior (house)	3600 SF	No
21	NF	Mortar, grey	Exterior (house)	2000 SF	No

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

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-32-401-121
House No.	1118 Pierce Rd, 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
22	NF	House wrap, brown	Room 1, 6	3600 SF	No
23	NF	Shingle, black	Exterior (house)	3800 SF	No
24	NF	Window glaze, white	Exterior	10 windows	No
25	NF	Cement floor, grey	Room 14, 15, 16	1434 SF	No
26	NF	House wrap, brown	Room 14, 15, 16	2820 SF	No
27	NF	Shingle, black	Exterior (garage)	1434 SF	No

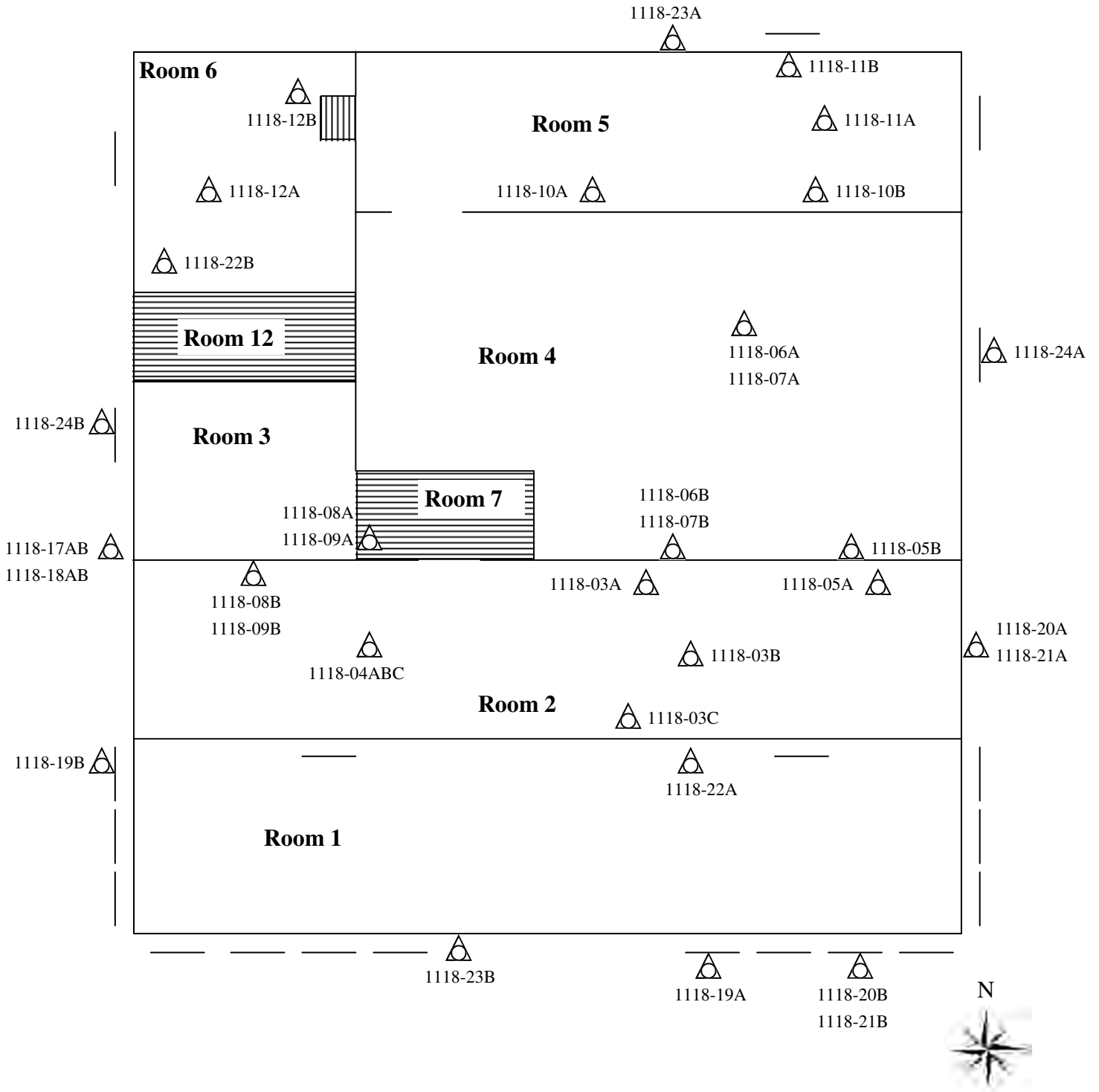
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.


Attachment:

Site Drawing

1st floor

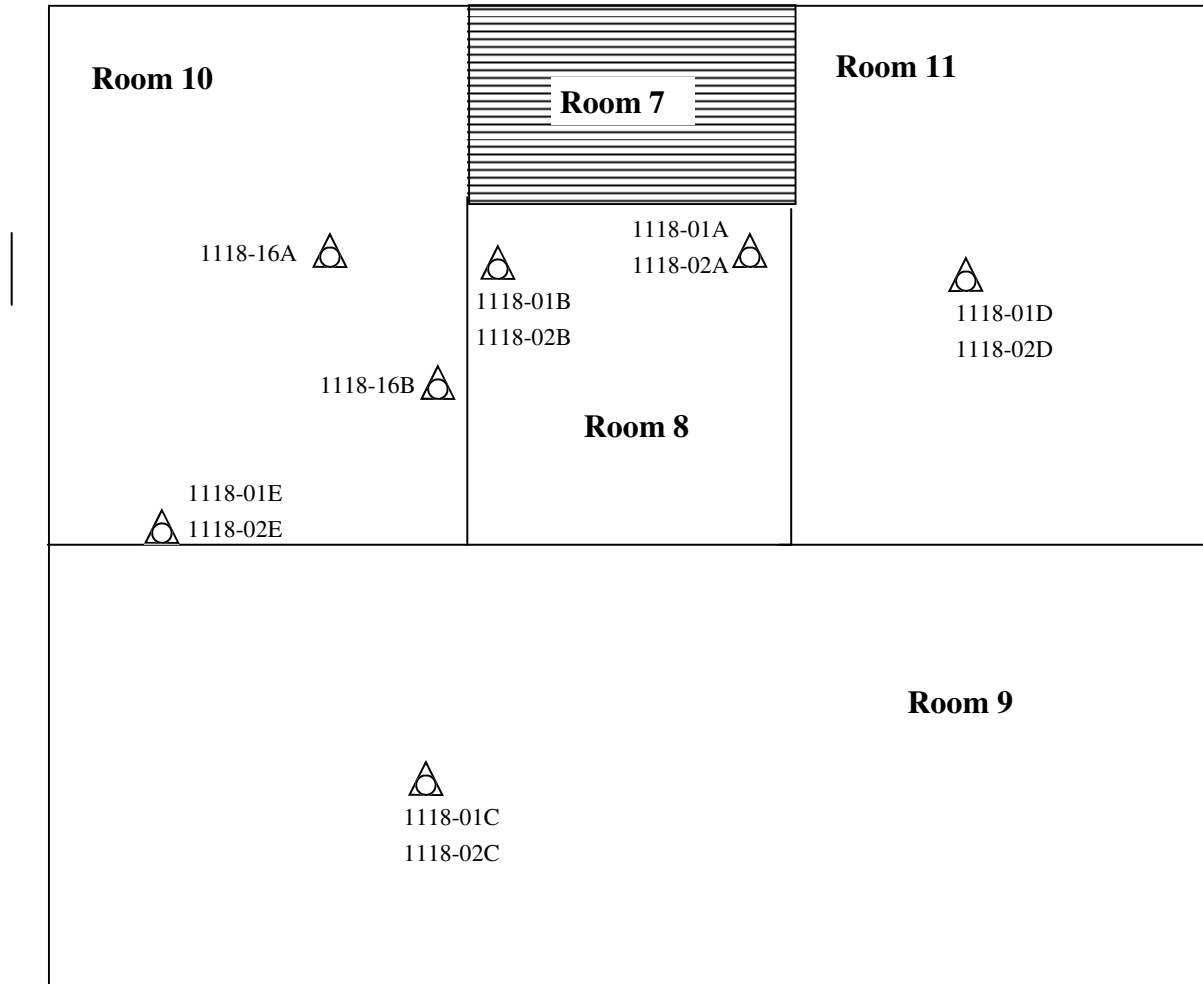
33-01-01-32-401-121
1118 Pierce Rd, Lansing, MI 48910
12/19/2017



 Sample Location

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

Ingham County Land Bank
199880

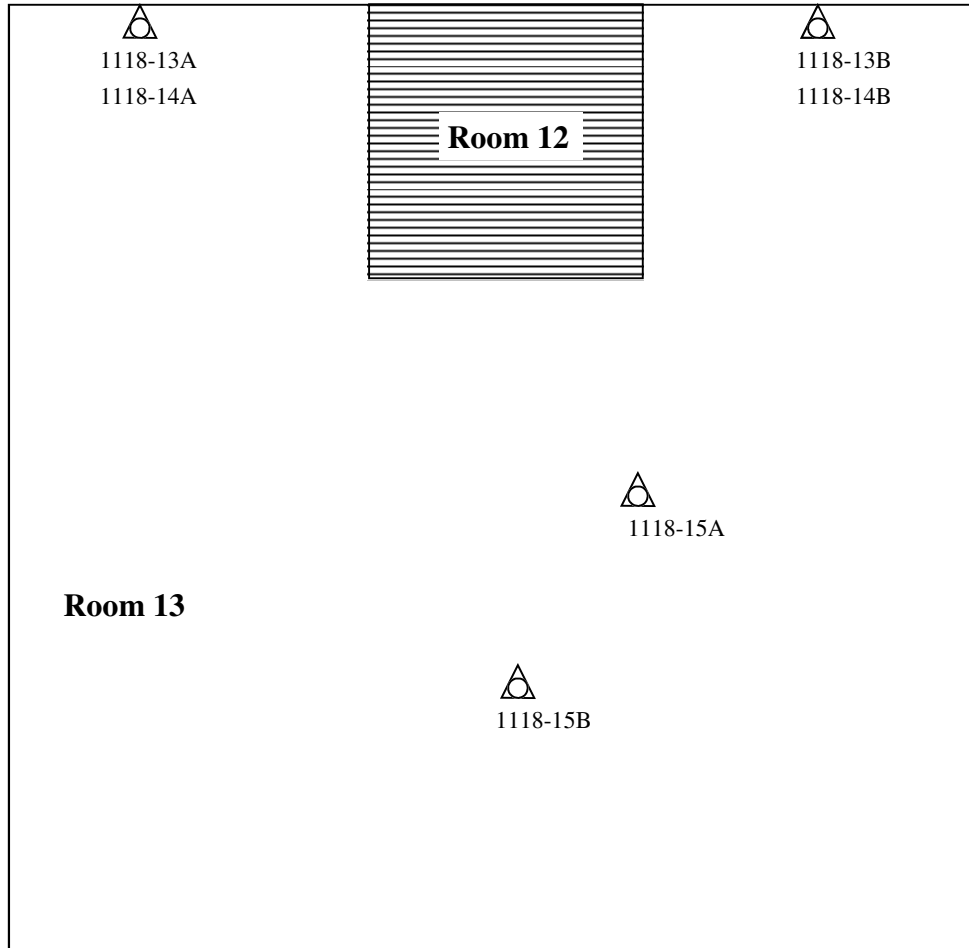



 Sample Location

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

33-01-01-32-401-121
1118 Pierce Rd, Lansing, MI 48910
12/19/2017



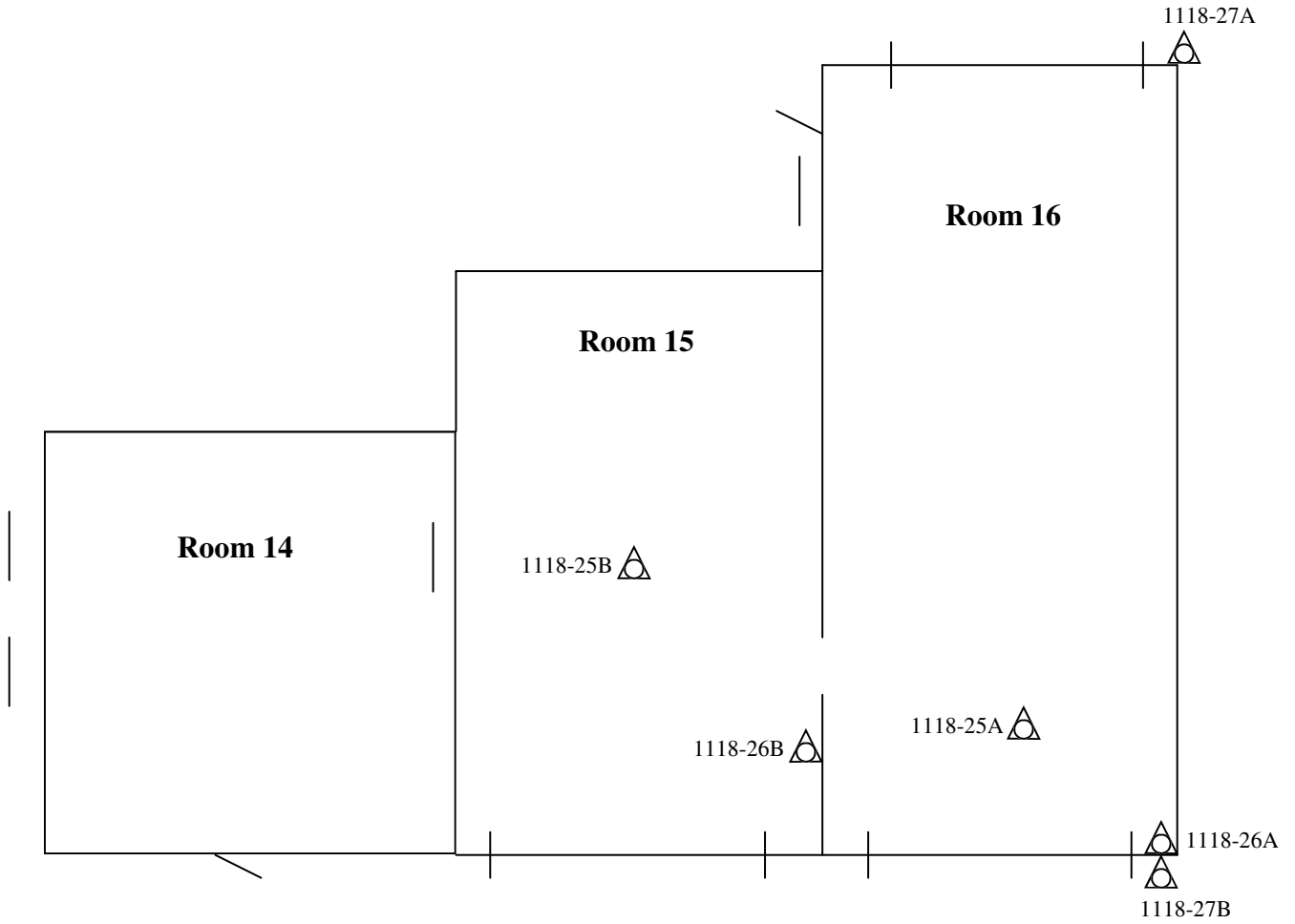
 Sample Location


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

Ingham County Land Bank
199880

Garage

33-01-01-32-401-121
1118 Pierce Rd, Lansing, MI 48910
12/19/2017



 Sample Location

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

Ingham County Land Bank
199880

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-32-401-121
House No. 1118 Pierce Rd, 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 House/Property

Parcel:	33-01-01-32-401-121
House No.	1118 Pierce Rd, Lansing, MI 48910
Date Inspected:	12/19/2017



Garage

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-32-401-121
House No. 1118 Pierce Rd, Lansing, MI 48910
Date Inspected: 12/19/2017



Hot Water Tank



TV Screens/Electronics



Misc. Items (solvents, cleaners)



Paint Cans

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-32-401-121
House No. 1118 Pierce Rd, Lansing, MI 48910
Date Inspected: 12/19/2017



Smoke Detectors



Thermostats



Tires

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-32-401-121
House No.	1118 Pierce Rd, Lansing, MI 48910
Date Inspected:	12/19/2017



Skim coat, white



Texture, white



Duct Wrap, grey

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



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

REVISED REPORT

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

Project Location :
1118 Pierce Rd, Lansing, MI

Attention :

Client Project : 33-01-01-32-401-121

ETC Job : 199880

Report Date : 12/22/2017

Login #	Sample ID	Work Requested	Completed
641918	01A	Asbestos Analysis	12/22/2017
641919	01B	Asbestos Analysis	12/22/2017
641920	01C	Asbestos Analysis	12/22/2017
641921	01D	Asbestos Analysis	12/22/2017
641922	01E	Asbestos Analysis	12/22/2017
641923	02A	Asbestos Analysis	12/22/2017
641924	02B	Asbestos Analysis	12/22/2017
641925	02C	Asbestos Analysis	12/22/2017
641926	02D	Asbestos Analysis	12/22/2017
641927	02E	Asbestos Analysis	12/22/2017
641928	03A	Asbestos Analysis	12/22/2017
641929	03B	Asbestos Analysis	12/22/2017
641930	03C	Asbestos Analysis	12/22/2017
641931	04A	Asbestos Analysis	12/22/2017
641932	04B	Asbestos Analysis	12/22/2017
641933	04C	Asbestos Analysis	12/22/2017
641934	05A	Asbestos Analysis	12/22/2017
641935	05B	Asbestos Analysis	12/22/2017
641936	06A	Asbestos Analysis	12/22/2017
641937	06B	Asbestos Analysis	12/22/2017

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
641938	07A	Asbestos Analysis	12/22/2017
641939	07B	Asbestos Analysis	12/22/2017
641940	08A	Asbestos Analysis	12/22/2017
641941	08B	Asbestos Analysis	12/22/2017
641942	09A	Asbestos Analysis	12/22/2017
641943	09B	Asbestos Analysis	12/22/2017
641944	10A	Asbestos Analysis	12/22/2017
641945	10B	Asbestos Analysis	12/22/2017
641946	11A	Asbestos Analysis	12/22/2017
641947	11B	Asbestos Analysis	12/22/2017
641948	12A	Asbestos Analysis	12/22/2017
641949	12B	Asbestos Analysis	12/22/2017
641950	13A	Asbestos Analysis	12/22/2017
641951	13B	Asbestos Analysis	12/22/2017
641952	14A	Asbestos Analysis	12/22/2017
641953	14B	Asbestos Analysis	12/22/2017
641954	15A	Asbestos Analysis	12/22/2017
641955	15B	Asbestos Analysis	12/22/2017
641956	16A	Asbestos Analysis	12/22/2017
641957	16B	Asbestos Analysis	12/22/2017
641958	17A	Asbestos Analysis	12/22/2017
641959	17B	Asbestos Analysis	12/22/2017
641960	18A	Asbestos Analysis	12/22/2017
641961	18B	Asbestos Analysis	12/22/2017
641962	19A	Asbestos Analysis	12/22/2017
641963	19B	Asbestos Analysis	12/22/2017
641964	20A	Asbestos Analysis	12/22/2017

Login #	Sample ID	Work Requested	Completed
641965	20B	Asbestos Analysis	12/22/2017
641966	21A	Asbestos Analysis	12/22/2017
641967	21B	Asbestos Analysis	12/22/2017
641968	22A	Asbestos Analysis	12/22/2017
641969	22B	Asbestos Analysis	12/22/2017
641970	23A	Asbestos Analysis	12/22/2017
641971	23B	Asbestos Analysis	12/22/2017
641972	24A	Asbestos Analysis	12/22/2017
641973	24B	Asbestos Analysis	12/22/2017
641974	25A	Asbestos Analysis	12/22/2017
641975	25B	Asbestos Analysis	12/22/2017
641976	26A	Asbestos Analysis	12/22/2017
641977	26B	Asbestos Analysis	12/22/2017
641978	27A	Asbestos Analysis	12/22/2017
641979	27B	Asbestos Analysis	12/20/2017

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

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

Location :

1118 Pierce Rd, Lansing, MI

ETC Job : 199880

Client Project : 33-01-01-32-401-121

Date Collected : 12/19/2017

Date Received : 12/20/2017

Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641918 01A RM8 N Wall Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641919 01B RM8 W Wall Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641920 01C RM9 Ceiling Center Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641921 01D RM11 Ceiling Center Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641922 01E RM10 S Wall Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641923 02A RM8 N Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
Sample 02A-02E is Texture not Skim					
641924 02B RM8 W Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Certificate of Analysis

Environmental Testing Laboratories, Inc.
38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

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

Location :

1118 Pierce Rd, Lansing, MI

ETC Job : 199880

Client Project : 33-01-01-32-401-121

Date Collected : 12/19/2017

Date Received : 12/20/2017

Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641925 02C RM9 Ceiling Center Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous		95% Other	5% Chrysotile
02C,02D are different from 02A,02B,02E					
641926 02D RM11 Ceiling Center Analyst: Liliane Mason		Not Analyzed			
641927 02E RM10 S Wall Analyst: Liliane Mason		Not Analyzed			
641928 03A RM2 N Ceiling Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous		96% Other	4% Chrysotile
641929 03B RM2 Center Ceiling Analyst: Liliane Mason		Not Analyzed			
641930 03C RM2 S Ceiling Analyst: Liliane Mason		Not Analyzed			
641931 04A RM2 Ceiling Analyst: Liliane Mason	Duct Wrap	Grey Fibrous Homogenous		50% Other	50% Chrysotile

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1118 Pierce Rd, Lansing, MI

ETC Job : 199880
Client Project : 33-01-01-32-401-121
Date Collected : 12/19/2017
Date Received : 12/20/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641932 04B RM2 Ceiling Analyst: Liliane Mason		Not Analyzed			
641933 04C RM2 Ceiling Analyst: Liliane Mason		Not Analyzed			
641934 05A RM2 N Wall Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641935 05B RM4 S Wall Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641936 06A RM4 Center Floor Analyst: Liliane Mason	12x12 Peel and Stick	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641937 06B RM4 S Floor Analyst: Liliane Mason	12x12 Peel and Stick	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641938 07A RM4 Center Floor Analyst: Liliane Mason	12x12 Peel and Stick	Blue 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 :

1118 Pierce Rd, Lansing, MI

ETC Job : 199880

Client Project : 33-01-01-32-401-121

Date Collected : 12/19/2017

Date Received : 12/20/2017

Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641939 07B RM4 S Floor Analyst: Liliane Mason	12x12 Peel and Stick	Blue Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641940 08A RM7 W Wall Analyst: Liliane Mason	Tape	White Fibrous Homogenous	80% Fiberglass	20% Other	None Detected
641941 08B RM2 W Wall Analyst: Liliane Mason	Tape	White Fibrous Homogenous	80% Fiberglass	20% Other	None Detected
641942 09A RM7 W Wall Analyst: Liliane Mason	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641943 09B RM2 W Wall Analyst: Liliane Mason	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641944 10A RM5 S Wall Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	60% Cellulose	40% Other	None Detected
641945 10B RM5 S Wall Analyst: Liliane Mason	Fiber Board	Brown 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 :
 1118 Pierce Rd, Lansing, MI

ETC Job : 199880
Client Project : 33-01-01-32-401-121
Date Collected : 12/19/2017
Date Received : 12/20/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641946 11A RM5 Center Ceiling Analyst: Liliane Mason	Ceiling Tile 12x12	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
641947 11B RM5 N Ceiling Analyst: Liliane Mason	Ceiling Tile 12x12	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
641948 12A RM6 Center Ceiling Analyst: Liliane Mason	Ceiling Tile 12x12	White Fibrous Homogenous	60% Cellulose	40% Other	None Detected
641949 12B RM6 E Ceiling Analyst: Liliane Mason	Ceiling Tile 12x12	White Fibrous Homogenous	60% Cellulose	40% Other	None Detected
641950 13A RM13 NE Wall Analyst: Liliane Mason	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641951 13B RM13 NW Wall Analyst: Liliane Mason	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641952 14A RM13 NE Wall Analyst: Liliane Mason	Mortar	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 :
 1118 Pierce Rd, Lansing, MI

ETC Job : 199880
Client Project : 33-01-01-32-401-121
Date Collected : 12/19/2017
Date Received : 12/20/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641953 14B RM13 NW Wall Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641954 15A RM13 Center Floor Analyst: Liliane Mason	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641955 15B RM13 S Floor Analyst: Liliane Mason	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641956 16A RM10 Center Floor Analyst: Liliane Mason	Linoleum	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641957 16B RM10 E Floor Analyst: Liliane Mason	Linoleum	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641958 17A Ext House W Chimney Analyst: Liliane Mason	Brick	Red Non-Fibrous Homogenous		100% Other	PC None Detected
641959 17B Ext House W Chimney Analyst: Liliane Mason	Brick	Red Non-Fibrous Homogenous		100% Other	PC 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 :
 1118 Pierce Rd, Lansing, MI

ETC Job : 199880
Client Project : 33-01-01-32-401-121
Date Collected : 12/19/2017
Date Received : 12/20/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641960 18A Ext House W Chimney Analyst: Liliane Mason	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641961 18B Ext House W Chimney Analyst: Liliane Mason	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641962 19A Ext House S Wall Analyst: Liliane Mason	Foam Paper	White Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641963 19B Ext House W Wall Analyst: Liliane Mason	Foam Paper	White Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641964 20A E Wall Ext House Analyst: Liliane Mason	Foundation Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641965 20B S Wall Ext House Analyst: Liliane Mason	Foundation Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641966 21A E Wall Ext House Analyst: Liliane Mason	Mortar	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 :
 1118 Pierce Rd, Lansing, MI

ETC Job : 199880
Client Project : 33-01-01-32-401-121
Date Collected : 12/19/2017
Date Received : 12/20/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641967 21B S Wall Ext House Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641968 22A RM1 N Wall Analyst: Liliane Mason	House Wrap	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
641969 22B RM6 S Wall Analyst: Liliane Mason	House Wrap	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
641970 23A N Roof Ext House Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641971 23B S Roof Ext House Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641972 24A Ext Window E Analyst: Liliane Mason	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641973 24B Ext Window W Analyst: Liliane Mason	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 :
 1118 Pierce Rd, Lansing, MI

ETC Job : 199880
Client Project : 33-01-01-32-401-121
Date Collected : 12/19/2017
Date Received : 12/20/2017
Date Analyzed : 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641974 25A RM16 S Floor Analyst: Liliane Mason	Cement Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641975 25B RM15 Center Floor Analyst: Liliane Mason	Cement Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641976 26A RM16 S Wall Analyst: Liliane Mason	House Wrap	Brown Fibrous Homogenous	65% Cellulose	35% Other	None Detected
641977 26B RM15 S Wall Analyst: Liliane Mason	House Wrap	Brown Fibrous Homogenous	65% Cellulose	35% Other	None Detected
641978 27A Garage Ext N Roof Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641979 27B Garage Ext S Roof Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Liliane Mason



Certificate of Analysis

Environmental Testing Laboratories, Inc.



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

Polarized Light Microscopy Asbestos Analysis Report

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

Location :

1118 Pierce Rd, Lansing, MI

ETC Job : 199880

Client Project : 33-01-01-32-401-121

Date Collected : 12/19/2017

Date Received : 12/20/2017

Date Analyzed : 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
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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 #: 199880

Client: ETC	Contact:	Project Location/Name:
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	<u>1118 Pierce RD</u>
	Fax: (734) 955-6604	Client Project #: <u>199880</u>
	E-mail: <u>results@2eti.com</u>	Date Sampled: <u>12/19/17</u>
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		

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

PLM Instructions
 (Check all that apply)

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

Point Counting: 400 Points*

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

Stop at 1st Positive -
 Clearly mark Homogenous Group

Soil or Vermiculite Analysis *

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	<u>01 ABCDE</u>		
	<u>02 ABCDE</u>		
	<u>03 ABC</u>		
	<u>04 ABC</u>		
	<u>05 AB</u>		
	<u>29 AB</u>		

	Date	Time
Relinquished (Name/Organization): <u>E. J. de Silva</u>	<u>12/19/17</u>	
Received (Name/ETL): <u>Brittany Walls</u>	<u>12/20/17</u>	<u>am/pm</u>
Stereoscopic Analysis (Name/ETL): <u>de Silva</u>		<u>am/pm</u>
Sample Login (Name/ETL): <u>Brittany Walls</u>	<u>12/20/17</u>	<u>am/pm</u>
Analysis (Name/ETL): <u>de Silva</u>		<u>am/pm</u>
QA/QC Review (Name/ETL): <u>Am Olson</u>	<u>12.20.17</u>	<u>3:18 am/pm</u>
Special Instructions: <u>Please count anything less than 30%</u>	Remarks	

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building:			Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
199880	Plaster		A	Rm 8 north wall 641918	2nd Floor		
	grey	NF	B	Rm 8 west wall 919			
			C	Rm 9 ceiling center 926			
			D	Rm 11 ceiling center 921			
			E	Rm 10 south wall 920			
	Shin Coat		A	Same as 01A 923	2nd Floor		
		NF	B	Same as 01B			
	white		C	Same as 01C			
			D	Same as 01D			
			E	Same as 01E 927			
	Texture		A	Rm 2 north ceiling 928	Rm 2 ceiling		
		NF	B	Rm 2 center ceiling 929			
	white		C	Rm 2 south ceiling 930			

1000 SF = 3 samples

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

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building:	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199880	04	Material: Duct wrap	118 Pierce Rd	F	A	Rm 2 ceiling	12/19/17	Rm 2	25	
		Description			B	Rm 2 ceiling		Duct-ceiling	SF	
		Material: gray			C	Rm 2 ceiling				
		Description								
		Material: Description								
		Description								
		Material: Description								
		Description								
		Material: Description								
		Description								
		Material: Description								
		Description								

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

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199880					1118 Pierce Rd	12/19/17			
05		Material: Drywall Description: white	NF	A	Rm 2 north wall	641934	1st Floor		
06		Material: 12x12 pbs Description: green	NF	B	Rm 4 south wall	935			
07		Material: 12x12 pbs Description: blue	NF	A	Rm 4 center floor	936	4		
08		Material: Tape Description: white	NF	B	Rm 4 south floor	937			
09		Material: Mud Description: white	NF	A	Same as 06A	938	4		
10		Material: fiber board Description: brown	NF	B	Same as 06B	939			
11		Material: Ceiling Tile 12x12 Description: white w/ swirl	NF	A	Rm 7 west wall	940	Throughout		
12		Material: Ceiling Tile 12x12 Description: white	NF	B	Rm 2 west wall	941			
13		Material: Cinderblock Description: grey	NF	A	Same as 08A	942	Throughout		
14		Material: Mortar Description: grey	NF	B	Same as 08B	943	Throughout		
			NF	A	Rm 5 south wall	944	Rm 5 south wall		
			NF	B	Rm 5 south wall	945			
			NF	A	Rm 5 center ceiling	946	Rm 5		
			NF	B	Rm 5 north ceiling	947			
			NF	A	Rm 6 center ceiling	948	Rm 6		
			NF	B	Rm 6 east ceiling	949			
			NF	A	Rm 13 NE wall	950	13		
			NF	B	Rm 13 NW wall	951			
			NF	A	Same as 13A	952			
			NF	B	Same as 13B	953	13		

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Building:	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
15	199880	Material: Concrete Description: grey	1118 Pierce Rd	NF	A	Rm 13 center floor 641954	12/19/17	13		
16		Material: Linoleum Description: white		NF	B	Rm 13 south floor 955				
17		Material: brick Description: red		NF	A	Rm 10 center floor 956		10		
18		Material: Stucco cement Description: grey		NF	B	ext house west chimney 957				
19		Material: foam paper Description: white/tan		NF	A	ext house west chimney 960				
20		Material: foundation cement Description: grey		NF	B	same as 17B 961				
21		Material: mortar Description: grey		NF	A	ext house south wall 962				
22		Material: House wrap Description: brown		NF	B	ext house west wall 963				
23		Material: Shingle Description: black		NF	A	east wall ext house 964				
24		Material: Window Glaze Description: white		NF	B	south wall ext house 965				
						same as 20A 966				
						same as 20B 967				
						Rm 6 north wall 968				
						north roof ext house 969				
						south roof ext house 970				
						ext window east 971				
						ext window west 972				
						ext window west 973				

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #: 199880		Building: 1118 Pierce Rd		Date: 12/19/17		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
25	Material: Cement floor Description: grey	NF	A	Rm 16 south floor 641974 Garage		
26	Material: House wrap - Garage Description: brown	NF	B	Rm 15 center floor 975 15,14,16		
27	Material: Shingle Description: black	NF	A	Rm 16 south wall 976 Garage		
	Material: Description:		B	Rm 15 south wall 977 15,14,16		
	Material: Description:		A	Garage ext north roof 978 ext		
	Material: Description:		B	garage ext south roof 979 garage		
	Material: Description:		A			
	Material: Description:		B			
	Material: Description:		A			
	Material: Description:		B			
	Material: Description:		A			
	Material: Description:		B			
	Material: Description:		A			
	Material: Description:		B			
	Material: Description:		A			
	Material: Description:		B			

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

Laboratory Analysis / Results

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

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

SIGNATURE

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

Prepared by: Wade Wiltse

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:	33-01-05-04-151-081
House No:	5507 S Washington Ave, Lansing, MI 48911
Date Inspected:	12/19/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	Detached
Square Footage	1260 SF	Garage Square Footage	1008 SF
Basement Square Footage	900 SF	Garage Siding	Wood, Cinderblock
Siding	Wood	Garage Color	White
Color	White	Garage Shingles	Asphalt
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-05-04-151-081
House No. 5507 S Washington Ave, Lansing, MI 48911
Date Inspected: 12/19/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Heater	3	Room 16
Refrigerators	3	Room 6
TV Screens, Monitors, Electronics	20	Room 1, 3, 5, 6, 10, 12, 15, 16, 19
Fire Extinguishers	2	Room 16
Misc. Items (glues, solvents)	10	Room 4, 6, 16, 18
Florescent Light Bulbs	5	Room 19
Car	1	Room 19

TIRE(s) REPORT

Material	Quantity & Units	Location
Tires	10	Room 18

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-05-04-151-081
 House No. 5507 S Washington Ave, Lansing, MI 48911
 Date Inspected: 12/19/2017

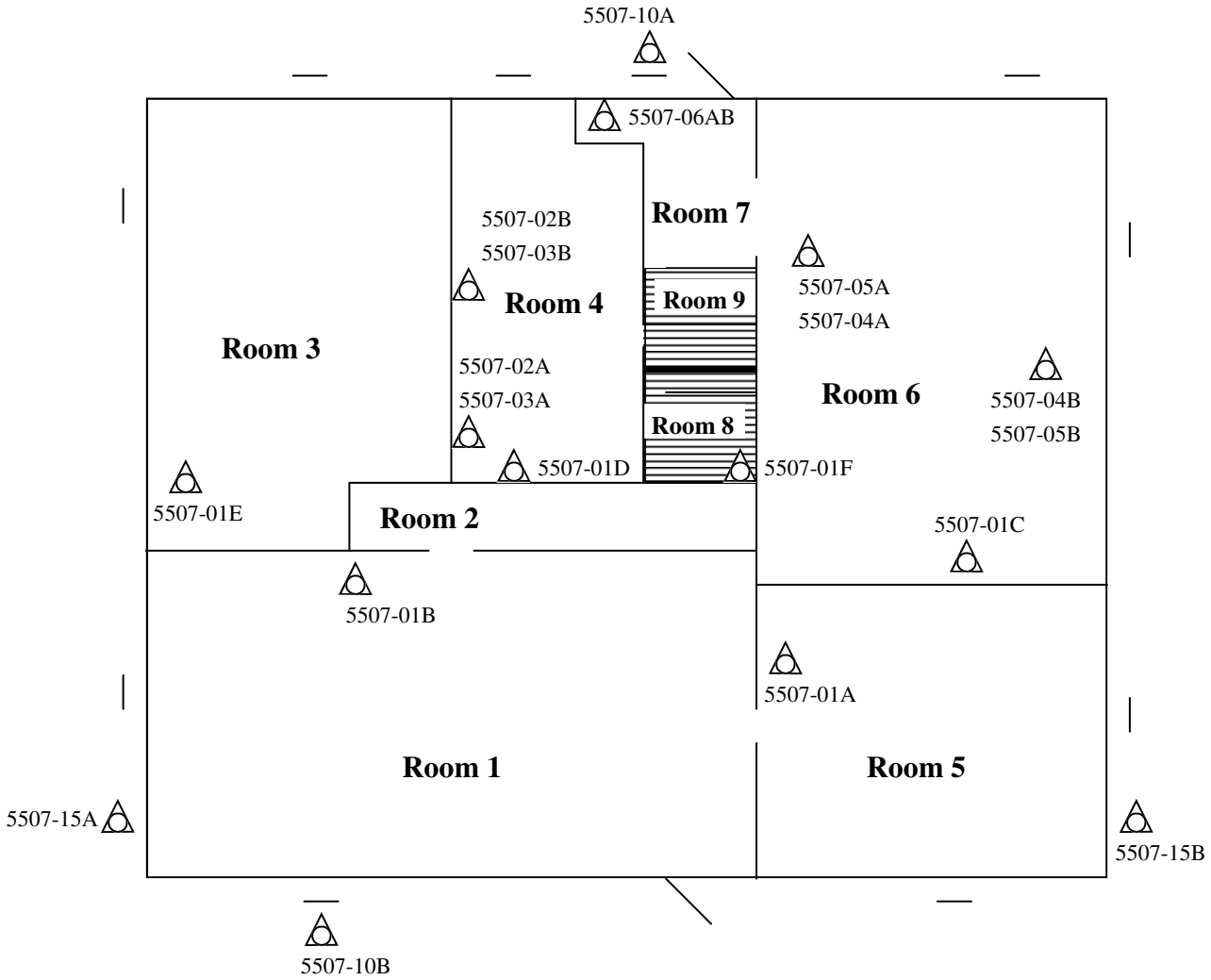
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS


Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Plaster, grey with skim coat	Throughout	7220 SF	No
2	NF	9x9 Tile, tan/beige	Room 4	48 SF	No
3	NF	Mastic, black	Room 4	48 SF	No
4	NF	9x9 Tile, beige	Rooms 6, 7	264 SF	YES
5	NF	Mastic, black	Rooms 6, 7	264 SF	No
6	NF	Fiberboard, tan	Room 7	24 SF	No
7	NF	Cinderblock, grey	Room 16	840 SF	No
8	NF	Mortar, grey	Room 16	600 SF	No
9	NF	Concrete floor, grey	Room 16	900 SF	No
10	NF	Window glaze, white	Exterior	15 windows	No
11	NF	Cinderblock, grey	Exterior (garage)	1386 SF	No
12	NF	Mortar, grey	Exterior (garage)	1000 SF	No
13	NF	Concrete floor, grey	Rooms 18, 19	1008 SF	No
14	NF	Shingle, black	Exterior (garage)	1050 SF	No
15	NF	Shingle, black	Exterior (house)	1300 SF	No
16	NF	Brick, red	Room 16	112 SF	No
17	NF	Stack Cement, grey	Room 16	60 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.

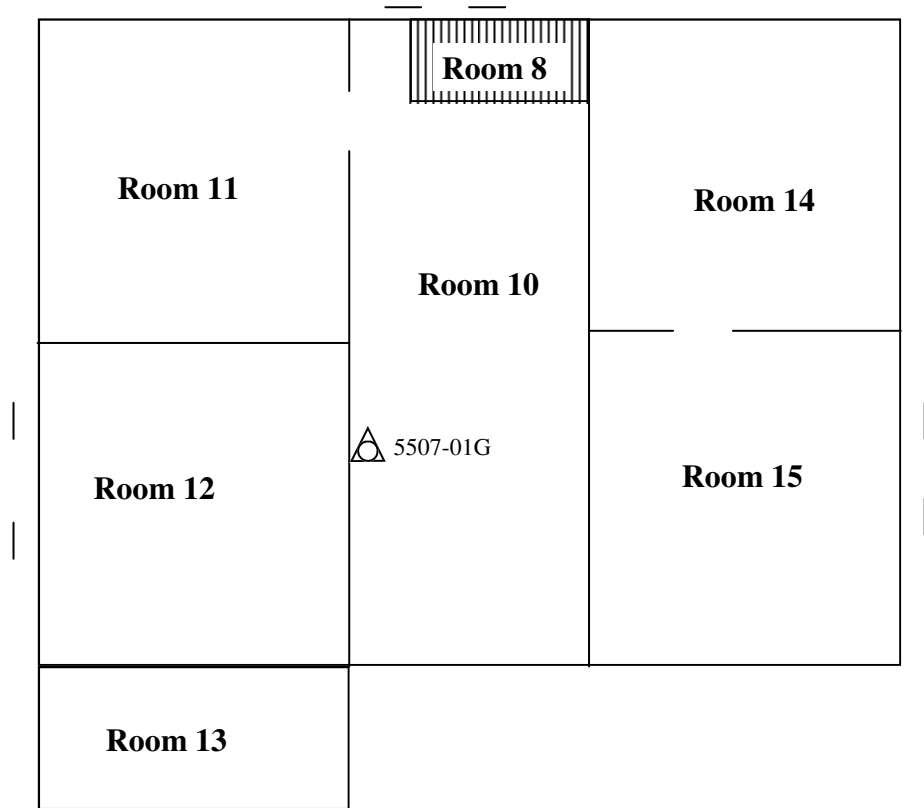
Attachment:


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.

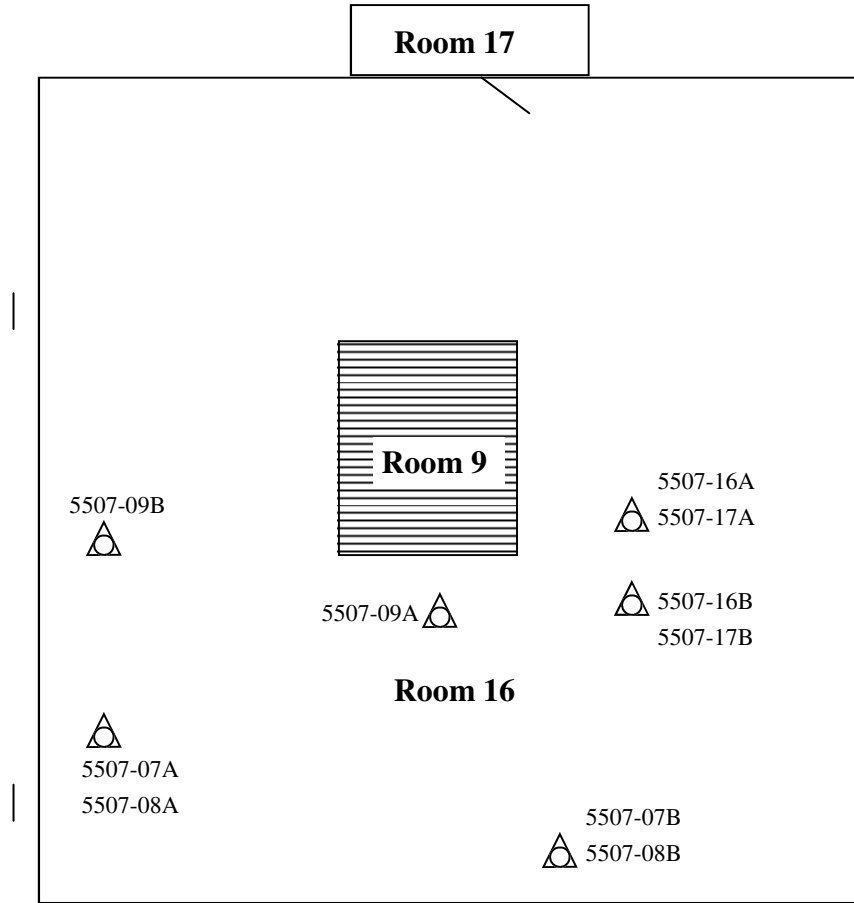


 Sample Location

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

33-01-05-04-151-081
5507 S Washington Ave, Lansing, MI 48911
12/19/2017



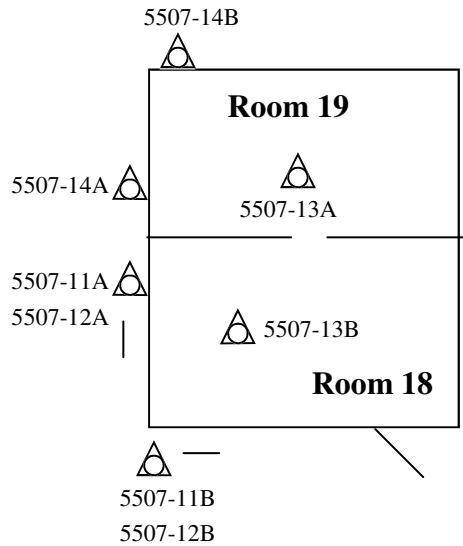
 Sample Location

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

Ingham County Land Bank
199881

Garage

33-01-05-04-151-081
5507 S Washington Ave, Lansing, MI 48911
12/19/2017



 Sample Location

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

Ingham County Land Bank
199881

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-05-04-151-081
House No. 5507 S Washington Ave, Lansing, MI 48911
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 House/Property

Parcel:	33-01-05-04-151-081
House No.	5507 S Washington Ave, Lansing, MI 48911
Date Inspected:	12/19/2017



Garage

Representative Pictures of Hazardous Materials

Parcel: 33-01-05-04-151-081
House No. 5507 S Washington Ave, Lansing, MI 48911
Date Inspected: 12/19/2017



Hot Water Heater



Refrigerators



TV Screens, Monitors, Electronics



Misc. Items (cleaner, solvents)

Representative Pictures of Hazardous Materials

Parcel: 33-01-05-04-151-081
House No. 5507 S Washington Ave, Lansing, MI 48911
Date Inspected: 12/19/2017



Florescent Light Bulbs



Tires



Car

Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-05-04-151-081
House No. 5507 S Washington Ave, Lansing, MI 48911
Date Inspected: 12/19/2017



9x9 Floor tile, beige

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 :
5507 S Washington Ave, Lansing, MI

Attention :

Client Project : 33-01-05-04-151-081

ETC Job : 199881

Report Date : 12/26/2017

Login #	Sample ID	Work Requested	Completed
641776	01A	Asbestos Analysis	12/26/2017
641777	01B	Asbestos Analysis	12/26/2017
641778	01C	Asbestos Analysis	12/26/2017
641779	01D	Asbestos Analysis	12/26/2017
641780	01E	Asbestos Analysis	12/26/2017
641781	01F	Asbestos Analysis	12/26/2017
641782	01G	Asbestos Analysis	12/26/2017
641783	02A	Asbestos Analysis	12/26/2017
641784	02B	Asbestos Analysis	12/26/2017
641785	03A	Asbestos Analysis	12/26/2017
641786	03B	Asbestos Analysis	12/26/2017
641787	04A	Asbestos Analysis	12/26/2017
641788	04B	Asbestos Analysis	12/26/2017
641789	05A	Asbestos Analysis	12/26/2017
641790	05B	Asbestos Analysis	12/26/2017
641791	06A	Asbestos Analysis	12/26/2017
641792	06B	Asbestos Analysis	12/26/2017
641793	07A	Asbestos Analysis	12/26/2017
641794	07B	Asbestos Analysis	12/26/2017
641795	08A	Asbestos Analysis	12/26/2017

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Login #	Sample ID	Work Requested	Completed
641796	08B	Asbestos Analysis	12/26/2017
641797	09A	Asbestos Analysis	12/26/2017
641798	09B	Asbestos Analysis	12/26/2017
641799	10A	Asbestos Analysis	12/26/2017
641800	10B	Asbestos Analysis	12/26/2017
641801	11A	Asbestos Analysis	12/26/2017
641802	11B	Asbestos Analysis	12/26/2017
641803	12A	Asbestos Analysis	12/26/2017
641804	12B	Asbestos Analysis	12/26/2017
641805	13A	Asbestos Analysis	12/26/2017
641806	13B	Asbestos Analysis	12/26/2017
641807	14A	Asbestos Analysis	12/26/2017
641808	14B	Asbestos Analysis	12/26/2017
641809	15A	Asbestos Analysis	12/26/2017
641810	15B	Asbestos Analysis	12/26/2017
641811	16A	Asbestos Analysis	12/26/2017
641812	16B	Asbestos Analysis	12/26/2017
641813	17A	Asbestos Analysis	12/26/2017
641814	17B	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 :
 5507 S Washington Ave, Lansing, MI

ETC Job : 199881

Client Project : 33-01-05-04-151-081

Date Collected : 12/19/2017

Date Received : 12/20/2017

Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641776 01A RM 5 N Wall Layer-1 Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
641776 01A RM 5 N Wall Layer-2 Analyst: Jessica Dilworth	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641777 01B RM 1 E Wall Layer-1 Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641777 01B RM 1 E Wall Layer-2 Analyst: Jessica Dilworth	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641778 01C RM 6 W Wall Layer-1 Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641778 01C RM 6 W Wall Layer-2 Analyst: Jessica Dilworth	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641779 01D RM 4 W Wall Layer-1 Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641779 01D RM 4 W Wall Layer-2 Analyst: Jessica Dilworth	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5507 S Washington Ave, Lansing, MI

ETC Job : 199881
Client Project : 33-01-05-04-151-081
Date Collected : 12/19/2017
Date Received : 12/20/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641780 01E RM 3 N Wall Layer-1 Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641780 01E RM 3 N Wall Layer-2 Analyst: Jessica Dilworth	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641781 01F RM 8 S Wall Layer-1 Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641781 01F RM 8 S Wall Layer-2 Analyst: Jessica Dilworth	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641782 01G RM 10 N Wall Layer-1 Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
641782 01G RM 10 N Wall Layer-2 Analyst: Jessica Dilworth	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641783 02A RM 4 W Floor Analyst: Jessica Dilworth	9x9 Tile	Tan/Beige Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
641784 02B RM 4 N Floor Analyst: Jessica Dilworth	9x9 Tile	Tan/Beige 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 :
 5507 S Washington Ave, Lansing, MI

ETC Job : 199881
Client Project : 33-01-05-04-151-081
Date Collected : 12/19/2017
Date Received : 12/20/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641785 03A RM 4 W Floor Analyst: Jessica Dilworth	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641786 03B RM 4 N Floor Analyst: Jessica Dilworth	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641787 04A RM 6 N Floor Analyst: Jessica Dilworth	9x9 Tile	Beige Non-Fibrous Homogenous	1.25% Cellulose	95% Other	PC 3.75% Chrysotile
641788 04B RM 6 S Floor Analyst: Jessica Dilworth		Not Analyzed			
641789 05A RM 6 N Floor Analyst: Jessica Dilworth	Mastic	Black Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
641790 05B RM 6 S Floor Analyst: Jessica Dilworth	Mastic	Black Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
641791 06A N Door in RM 7 Analyst: Jessica Dilworth	Fiberboard	Tan Non-Fibrous Homogenous	75% Cellulose	25% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5507 S Washington Ave, Lansing, MI

ETC Job : 199881
Client Project : 33-01-05-04-151-081
Date Collected : 12/19/2017
Date Received : 12/20/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641792 06B N Door in RM 7 Analyst: Jessica Dilworth	Fiberboard	Tan Non-Fibrous Homogenous	75% Cellulose	25% Other	None Detected
641793 07A N Wall RM 16 Analyst: Jessica Dilworth	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641794 07B W Wall RM 16 Analyst: Jessica Dilworth	Cinderblock	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641795 08A N Wall RM 16 Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641796 08B W Wall RM 16 Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641797 09A Center Floor RM 16 Analyst: Jessica Dilworth	Concrete Floor	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641798 09B North Floor RM 16 Analyst: Jessica Dilworth	Concrete Floor	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 :
 5507 S Washington Ave, Lansing, MI

ETC Job : 199881

Client Project : 33-01-05-04-151-081

Date Collected : 12/19/2017

Date Received : 12/20/2017

Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641799 10A E Ext Window Analyst: Jessica Dilworth	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641800 10B W Ext Window Analyst: Jessica Dilworth	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641801 11A N Ext Garage Wall Analyst: Jessica Dilworth	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641802 11B W Ext Garage Wall Analyst: Jessica Dilworth	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641803 12A N Ext Garage Wall Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641804 12B W Ext Garage Wall Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641805 13A RM 19 Center Floor Analyst: Jessica Dilworth	Concrete Floor	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 :
 5507 S Washington Ave, Lansing, MI

ETC Job : 199881

Client Project : 33-01-05-04-151-081

Date Collected : 12/19/2017

Date Received : 12/20/2017

Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641806 13B RM 18 Center Floor Analyst: Jessica Dilworth	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641807 14A Ext Garage N Roof Analyst: Jessica Dilworth	Shingle	Black Non-Fibrous Homogenous	3% Cellulose 20% Fiberglass	77% Other	None Detected
641808 14B Ext Garage E Roof Analyst: Jessica Dilworth	Shingle	Black Non-Fibrous Homogenous	3% Cellulose 20% Fiberglass	77% Other	None Detected
641809 15A Ext House N Roof Analyst: Jessica Dilworth	Shingle	Black Non-Fibrous Homogenous	30% Cellulose	70% Other	None Detected
641810 15B Ext House S Roof Analyst: Jessica Dilworth	Shingle	Black Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
641811 16A RM 16 Chimney Center RM Analyst: Jessica Dilworth	Brick	Red Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
641812 16B RM 16 Chimney Center RM Analyst: Jessica Dilworth	Brick	Red 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 :
 5507 S Washington Ave, Lansing, MI

ETC Job : 199881
Client Project : 33-01-05-04-151-081
Date Collected : 12/19/2017
Date Received : 12/20/2017
Date Analyzed : 12/26/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641813 17A RM 16 Chimney Center RM Analyst: Jessica Dilworth	Stack Cement	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641814 17B RM 16 Chimney Center RM Analyst: Jessica Dilworth	Stack Cement	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Jessica Dilworth

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 #: 199981-199881

Client: ETC	Contact:	Project Location/Name: 55075 Washington 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 #:
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) 3 days

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

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 ABCDEFG		
	2 AB		
	↓		
	17 AB		

	Name/Organization	Date	Time
Relinquished (Name/Organization):	Wade Wilke	12/19/17	am/pm
Received (Name/ETL):	Robert Spack	12.20.17	am/pm
Stereoscopical Analysis (Name/ETL):	Jessica Schultz	12/21/17	am/pm
Sample Log In (Name/ETL):	Robert Spack	12.20.17	am/pm
Analysis (Name/ETL):	Jessica Schultz	12/21/17	am/pm
QA/QC Review (Name/ETL):	Brittany Walls	12/26/17	am/pm

Special Instructions: please point count 3% or less

Remarks:

Asbestos Material Sampling Summary Sheet
Surfacing materials

Revision date 5/7/2015

Job #: 199881		Building: S507 S Washington Ave			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 #
	Material: Plaster		A	Rm 5 north wall 641776			
		NF	B	Rm 6 east wall 77776			
			C	Rm 6 west wall 778			
			D	Rm 4 west wall 779	Throughout		
			E	Rm 3 north wall 780			
			F	Rm 8 south wall 781			
			G	Rm 10 north wall 782			
	Material: w/skim coat						
	Material:						
	Material:						

<1000 SF = 3 samples

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199981					Building: 5507 S Washington Ave	12/19/17			
02		Material: 9x9 Tile Description: tan/beige	NF	A	Rm 4 west floor 64-78B		4		
03		Material: Mastic Description: black	NF	B	Rm 4 north floor 78L		4		
04		Material: 9x9 Tile Description: beige	NF	A	Same as 02A 785				
05		Material: Mastic Description: black	NF	B	Same as 02B 786				
06		Material: Fiberboard Description: Tan	NF	A	Rm 6 north floor 787				
07		Material: Cinderblock Description: grey	NF	B	Rm 6 south floor 788		6, 7		
08		Material: Mortar Description: grey	NF	A	Same as 04A 789				
09		Material: Concrete Floor Description: grey	NF	B	Same as 04B 790		6, 7		
10		Material: Window Glaze Description: white	NF	A	North door in Rm 7 791				
11		Material: Cinderblock Description: grey	NF	B	North door in Rm 7 792			24 SE	
			NF	A	North wall Rm 16 793		basement		
			NF	B	west wall Rm 16 794		16		
			NF	A	Same as 07A 795				
			NF	B	Same as 07B 796		16		
			NF	A	Center Floor Rm 16 797				
			NF	B	North Floor Rm 16 798		16		
			NF	A	East ext window 799		Ext		
			NF	B	West ext window 800		Ext windows		
			NF	A	North ext garage wall 801		Ext		
			NF	B	West ext garage wall 802		Ext garage		

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	Picture #
199981								
	12	Material: Mortar Description: grey	NF	A	Same as 11A 641803	ext		
	13	Material: Concrete floor Description: grey	NF	B	Same as 11B 804	garage		
	14	Material: Shingle Description: black	NF	A	bn19 center floor 805	garage 19,18		
	15	Material: Shingle Description: black	NF	B	Ext garage north roof 807	garage ext		
	16	Material: Brick Description: red	NF	A	Ext garage east roof 808	roof		
	17	Material: Stack cement Description: grey	NF	B	ext house north roof 809	ext house		
				A	ext house south roof 810			
				B	bn16 chimney center room 811			
				A	bn16 chimney center room 812	16		
				B	Same as 16A 813			
				A	Same as 16B 814	16		
				B				
				A				
				B				
				A				
				B				
				A				
				B				

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

Laboratory Analysis / Results

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

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

SIGNATURE

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



Prepared by: _____

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:	33-01-05-276-021
House No:	5317 S MLK Blvd, Lansing, MI 48911
Date Inspected:	11/22/2017 & 2/27/2018
Inspected By:	Bryan Dryer & Heather Davis
Inspectors State Card #	A-90292 & A-48908

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1250 SF	Garage Square Footage	NA
Basement Square Footage	864 SF	Garage Siding	NA
Siding	Vinyl/wood	Garage Color	NA
Color	Blue	Garage Shingles	NA
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-05-276-021
House No. 5317 S MLK Blvd, Lansing, MI 48911
Date Inspected: 11/22/2017 & 2/27/2018

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
TV Screens, Electronics	6	Rooms 7, 9, 12
Misc. Items (solvents, cleaners)	20	Room 1, 4, 6, 9, 10, 12, 13
Smoke Detectors	5	Room 1, 3, 7, 12
Thermostats	1	Room 2
Florescent Light Bulbs	1	Room 10
Paint Cans	2	Room 6, 9

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-05-276-021
 House No. 5317 S MLK Blvd, Lansing, MI 48911
 Date Inspected: 11/22/2017 & 2/27/2018

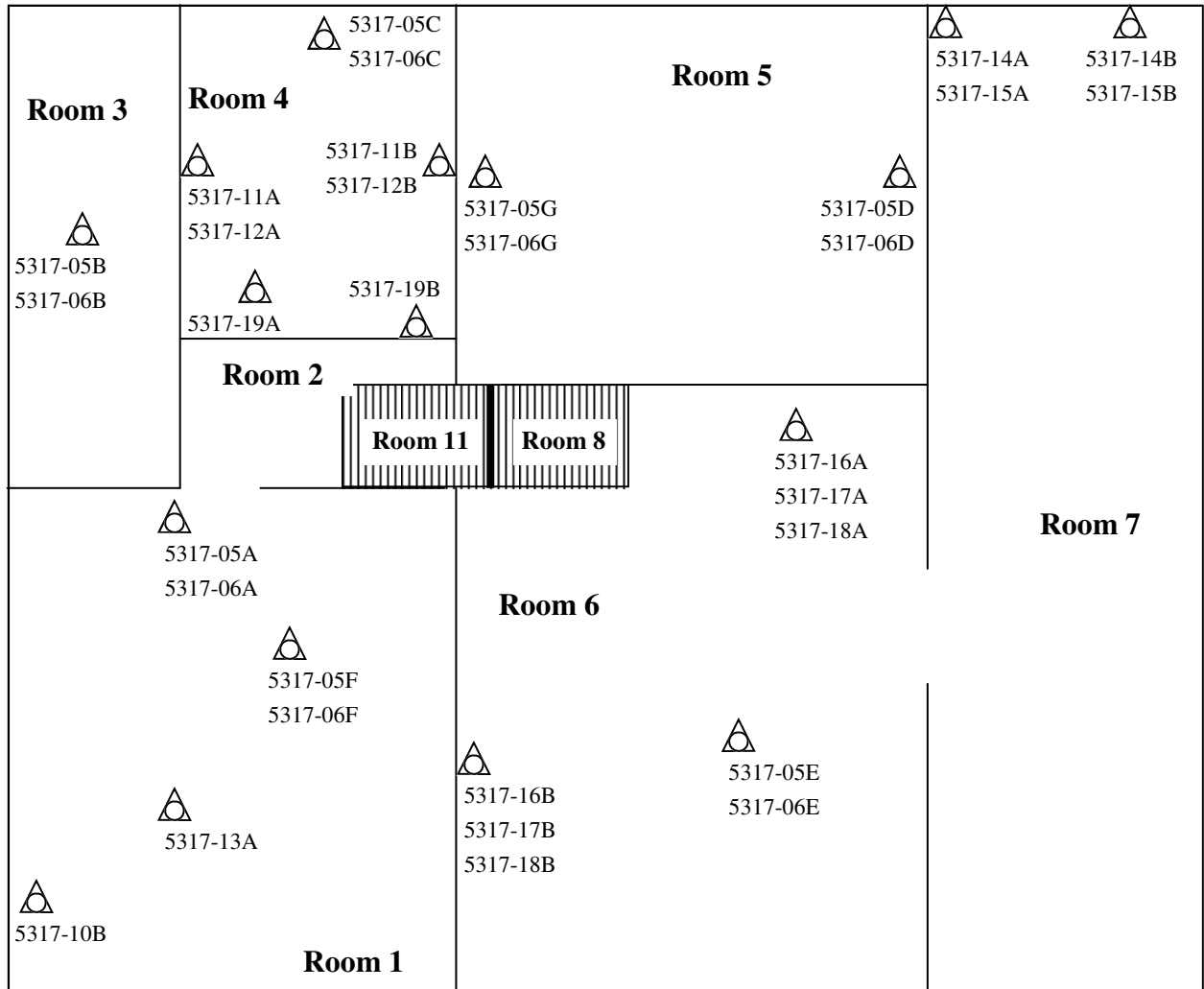
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	House wrap, black paper	Exterior	1750 SF	No
2	F	Asphalt shingle, black tar-like (top)	Exterior	1500 SF	No
3	NF	Asphalt shingle, black tar-like (bottom)	Exterior	1500 SF	No
4	NF	Window glaze, white putty	Exterior	15 windows	No
5	F	Plaster, grey	Throughout	6200 SF	No
6	NF	Skim coat, white	Throughout	6200 SF	No
7	NF	Texture, white	Throughout	500 SF	No
8	F	Duct wrap, grey	Room 10	150 SF	YES
9	NF	Poured concrete, grey	Room 9, 10	864 SF	No
10	F	Drywall, white	Throughout	6200 SF	No
11	NF	Tape, white	Throughout	6200 SF	No
12	F	Mud, white	Throughout	6200 SF	No
13	F	Blown-in insulation, grey	Throughout	3000 SF	No
14	NF	12x12 Floor tile, white	Room 7	100 SF	No
15	NF	Mastic, cream	Room 7	100 SF	No
16	NF	12x12 Floor tile, blue	Room 6	120 SF	No
17	NF	Mastic, yellow	Room 6	120 SF	No
18	NF	Floor leveler w/mesh, white	Room 6	120 SF	No
19	NF	12x12 Peel and stick, grey	Room 4	100 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

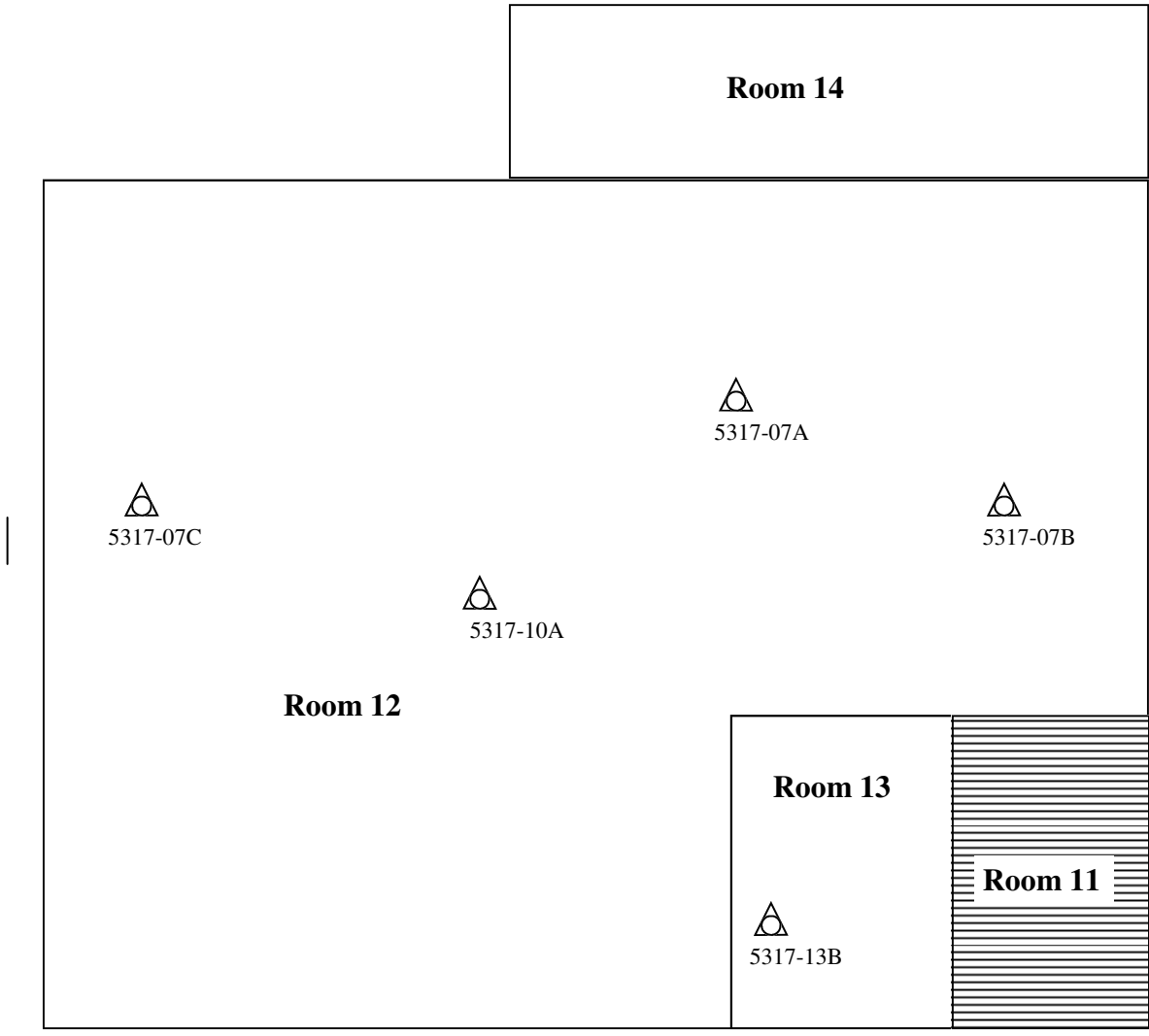



N



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.

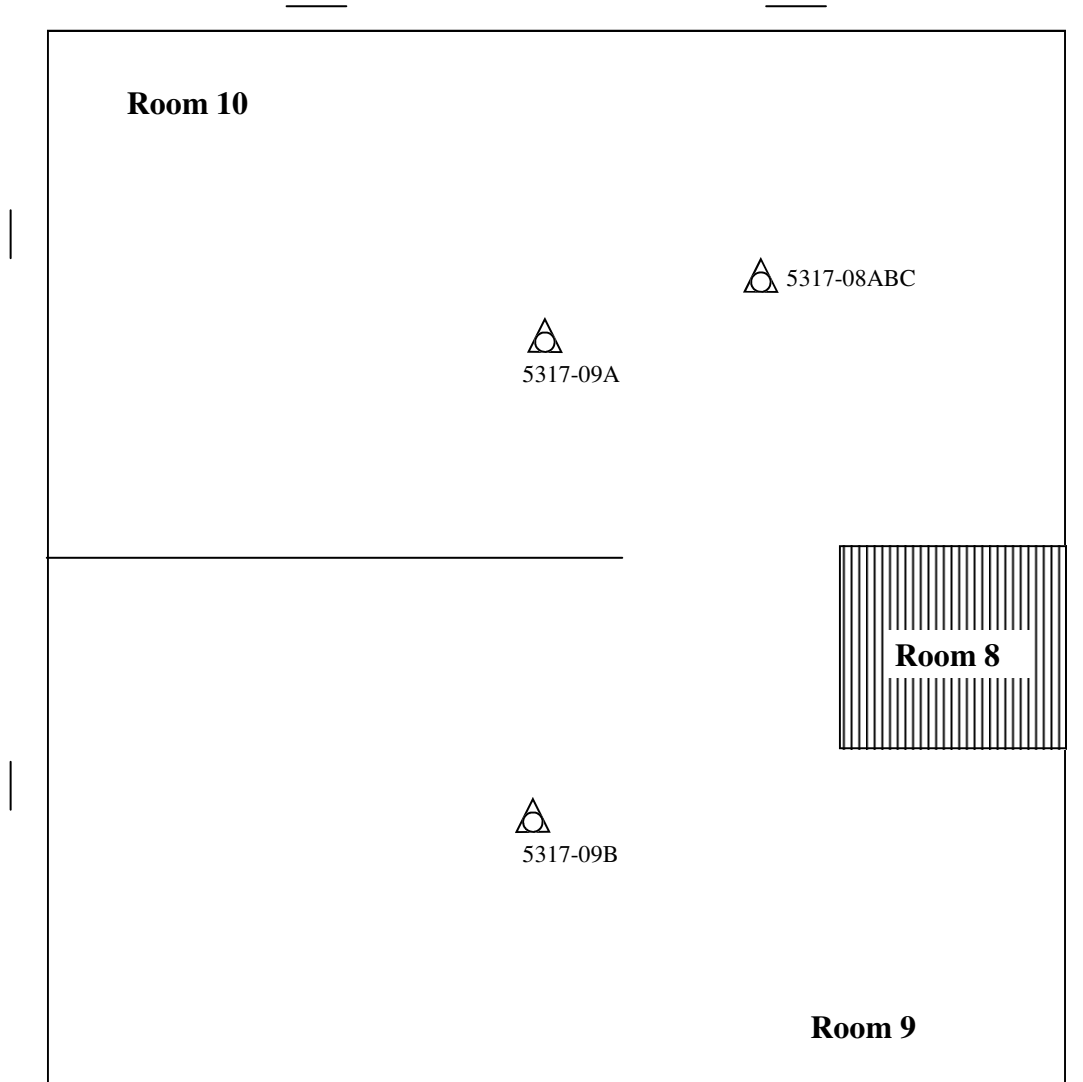


 Sample Location

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

33-01-05-276-021
5317 S MLK Blvd, Lansing, MI 48911
11/22/2017 & 2/27/2018



N



Sample Location


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

Ingham County Land Bank
199882

Exterior House

33-01-05-276-021
5317 S MLK Blvd, Lansing, MI 48911
11/22/2017 & 2/27/2018



 Sample Location

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

Ingham County Land Bank
199882

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-05-276-021
House No. 5317 S MLK Blvd, Lansing, MI 48911
Date Inspected: 11/22/2017 & 2/27/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel: 33-01-05-276-021
House No. 5317 S MLK Blvd, Lansing, MI 48911
Date Inspected: 11/22/2017 & 2/27/2018



TV Screens/Electronics



Misc. Items (solvents, cleaners)



Paint Cans



Smoke Detectors

Representative Pictures of Hazardous Materials

Parcel: 33-01-05-276-021
House No. 5317 S MLK Blvd, Lansing, MI 48911
Date Inspected: 11/22/2017 & 2/27/2018



Thermostats



Florescent Light Bulbs

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-05-276-021
House No.	5317 S MLK Blvd, Lansing, MI 48911
Date Inspected:	11/22/2017 & 2/27/2018



Duct wrap, grey

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



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

REVISED REPORT

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

Project Location :
5317 S MLK Blvd, Lansing, MI

Attention :

Client Project : 33-01-05-276-021

ETC Job : 199882

Report Date : 3/2/2018

Login #	Sample ID	Work Requested	Completed
629951	1A	Asbestos Analysis	12/04/2017
629952	1B	Asbestos Analysis	12/04/2017
629953	2A	Asbestos Analysis	12/04/2017
629954	2B	Asbestos Analysis	12/04/2017
629955	3A	Asbestos Analysis	12/04/2017
629956	3B	Asbestos Analysis	12/04/2017
629957	4A	Asbestos Analysis	12/04/2017
629958	4B	Asbestos Analysis	12/04/2017
694381	05A	Asbestos Analysis	12/04/2017
694382	05B	Asbestos Analysis	03/02/2018
694383	05C	Asbestos Analysis	03/02/2018
694384	05D	Asbestos Analysis	03/02/2018
694385	05E	Asbestos Analysis	03/02/2018
694386	05F	Asbestos Analysis	03/02/2018
694387	05G	Asbestos Analysis	03/02/2018
694388	06A	Asbestos Analysis	03/02/2018
694389	06B	Asbestos Analysis	03/02/2018
694390	06C	Asbestos Analysis	03/02/2018
694391	06D	Asbestos Analysis	03/02/2018
694392	06E	Asbestos Analysis	03/02/2018

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Login #	Sample ID	Work Requested	Completed
694393	06F	Asbestos Analysis	03/02/2018
694394	06G	Asbestos Analysis	03/02/2018
694395	07A	Asbestos Analysis	03/02/2018
694396	07B	Asbestos Analysis	03/02/2018
694397	07C	Asbestos Analysis	03/02/2018
694398	08A	Asbestos Analysis	03/02/2018
694399	08B	Asbestos Analysis	03/02/2018
694400	08C	Asbestos Analysis	03/02/2018
694401	09A	Asbestos Analysis	03/02/2018
694402	09B	Asbestos Analysis	03/02/2018
694403	10A	Asbestos Analysis	03/02/2018
694404	10B	Asbestos Analysis	03/02/2018
694405	11A	Asbestos Analysis	03/02/2018
694406	11B	Asbestos Analysis	03/02/2018
694407	12A	Asbestos Analysis	03/02/2018
694408	12B	Asbestos Analysis	03/02/2018
694409	13A	Asbestos Analysis	03/02/2018
694410	13B	Asbestos Analysis	03/02/2018
694411	14A	Asbestos Analysis	03/02/2018
694412	14B	Asbestos Analysis	03/02/2018
694413	15A	Asbestos Analysis	03/02/2018
694414	15B	Asbestos Analysis	03/02/2018
694415	16A	Asbestos Analysis	03/02/2018
694416	16B	Asbestos Analysis	03/02/2018
694417	17A	Asbestos Analysis	03/02/2018
694418	17B	Asbestos Analysis	03/02/2018
694419	18A	Asbestos Analysis	03/02/2018

Login #	Sample ID	Work Requested	Completed
694420	18B	Asbestos Analysis	03/02/2018
694421	19A	Asbestos Analysis	03/02/2018
694422	19B	Asbestos Analysis	03/02/2018

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5317 S MLK Blvd, Lansing, MI

ETC Job : 199882
Client Project : 33-01-05-276-021
Date Collected : 11/22/2017
Date Received : 11/27/2017
Date Analyzed : 12/04/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
629951 1A Ext. House, S. Wall Analyst: Daniel Agnew	House Wrap	Black Fibrous Homogenous	75% Cellulose	25% Other	None Detected
629952 1B Ext. House, W. Wall Analyst: Daniel Agnew	House Wrap	Black Fibrous Homogenous	77% Cellulose	23% Other	None Detected
629953 2A Ext. Roof Drip Line, W. Side Layer-1 Analyst: Daniel Agnew	Asphalt Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
629953 2A Ext. Roof Drip Line, W. Side Layer-2 Analyst: Daniel Agnew	Tar	Black Non-Fibrous Homogenous		100% Other	None Detected
629954 2B Ext. Roof Drip Line, E. Side Layer-1 Analyst: Daniel Agnew	Asphalt Shingle	Black Non-Fibrous Homogenous		100% Other	None Detected
629954 2B Ext. Roof Drip Line, E. Side Layer-2 Analyst: Daniel Agnew	Tar	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
629955 3A As 2A, Above Analyst: Daniel Agnew	Asphalt Shingle	Black 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 :
 5317 S MLK Blvd, Lansing, MI

ETC Job : 199882
Client Project : 33-01-05-276-021
Date Collected : 11/22/2017
Date Received : 11/27/2017
Date Analyzed : 12/04/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
629956 3B As 2B, Above Analyst: Daniel Agnew	Asphalt Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
629957 4A Ext. Window, S. Wall (West) Analyst: Daniel Agnew	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
629958 4B Ext. Window, S. Wall (East) Analyst: Daniel Agnew	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
694381 05A Rm 1 S Wall Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
694382 05B Rm 3 Center Ceiling Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694383 05C Rm 4 S Wall Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694384 05D Rm 5 W Wall Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
5317 S MLK Blvd, Lansing, MI

ETC Job : 199882
Client Project : 33-01-05-276-021
Date Collected : 02/27/2018
Date Received : 02/28/2018
Date Analyzed : 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694385 05E Rm 6 Center Ceiling Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694386 05F Rm 1 Center Ceiling Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694387 05G Rm 5 E Wall Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694388 06A Rm 1 S Wall Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
694389 06B Rm 3 Center Ceiling Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
694390 06C RM 4 S Wall Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
694391 06D Rm 5 W Wall Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5317 S MLK Blvd, Lansing, MI

ETC Job : 199882
Client Project : 33-01-05-276-021
Date Collected : 02/27/2018
Date Received : 02/28/2018
Date Analyzed : 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694392 06E Rm 6 Center Ceiling Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
694393 06F Rm 1 Center Ceiling Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
694394 06G Rm 5 E Wall Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
694395 07A Rm 12 Center Ceiling Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
694396 07B Rm 12 W Ceiling Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
694397 07C Rm 12 E Ceiling Layer-2 Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
694398 08A On top of large duct Rm 10 Analyst: Renee Renauer	Duct Wrap	Grey Fibrous Homogenous	40% Cellulose	5% Other	55% Chrysotile

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5317 S MLK Blvd, Lansing, MI

ETC Job : 199882
Client Project : 33-01-05-276-021
Date Collected : 02/27/2018
Date Received : 02/28/2018
Date Analyzed : 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694399 08B Duct Rm 10 Analyst: Renee Renauer		Not Analyzed			
694400 08C Duct Rm 10 Analyst: Renee Renauer		Not Analyzed			
694401 09A Rm 10 Center Floor Analyst: Renee Renauer	Poured Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
694402 09B Rm 9 Center Floor Analyst: Renee Renauer	Poured Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
694403 10A Rm 12 Center Ceiling Layer-1 Analyst: Renee Renauer	Drywall	White Non-Fibrous Homogenous	3% Cellulose 1% Fiberglass	96% Other	None Detected
694403 10A Rm 12 Center Ceiling Layer-2 Analyst: Renee Renauer	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 :
 5317 S MLK Blvd, Lansing, MI

ETC Job : 199882

Client Project : 33-01-05-276-021

Date Collected : 02/27/2018

Date Received : 02/28/2018

Date Analyzed : 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694404 10B Rm 1 E Wall Layer-1 Analyst: Renee Renauer	Drywall	White Non-Fibrous Homogenous	3% Cellulose 1% Fiberglass	96% Other	None Detected
694404 10B Rm 1 E Wall Layer-2 Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
694405 11A RM 4 W Wall Analyst: Renee Renauer	Tape	White Fibrous Homogenous	100% Cellulose		None Detected
694406 11B Rm 4 E Wall Analyst: Renee Renauer	Tape	White Fibrous Homogenous	100% Cellulose		None Detected
694407 12A Rm 4 W Wall Analyst: Renee Renauer	Mud	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
694408 12B Rm 4 E Wall Analyst: Renee Renauer	Mud	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
694409 13A Rm 1 Center Ceiling Analyst: Renee Renauer	Blown Insulation	Grey Fibrous Homogenous	98% Mineral wool	2% 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 :
5317 S MLK Blvd, Lansing, MI

ETC Job : 199882
Client Project : 33-01-05-276-021
Date Collected : 02/27/2018
Date Received : 02/28/2018
Date Analyzed : 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694410 13B Rm 13 Floor Center Analyst: Renee Renauer	Blown Insulation	Grey Fibrous Homogenous	3% Cellulose 95% Mineral wool	2% Other	None Detected
694411 14A Rm 7 S Floor Analyst: Renee Renauer	12x12 Floor Tile	White Non-Fibrous Homogenous		100% Other	None Detected
694412 14B Rm 7 S Floor Analyst: Renee Renauer	12x12 Floor Tile	White Non-Fibrous Homogenous		100% Other	None Detected
694413 15A Rm 7 S Floor Analyst: Renee Renauer	Mastic	Cream Non-Fibrous Homogenous		100% Other	None Detected
694414 15B Rm 7 S Floor Analyst: Renee Renauer	Mastic	Cream Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694415 16A S Floor Rm 6 Analyst: Renee Renauer	12x12 Floor Tile	Blue Non-Fibrous Homogenous		100% Other	None Detected
694416 16B E Floor Rm 6 Analyst: Renee Renauer	12x12 Floor Tile	Blue Non-Fibrous Homogenous		100% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 5317 S MLK Blvd, Lansing, MI

ETC Job : 199882

Client Project : 33-01-05-276-021

Date Collected : 02/27/2018

Date Received : 02/28/2018

Date Analyzed : 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694417 17A S Floor Rm 6 Analyst: Renee Renauer	Mastic	Yellow Non-Fibrous Homogenous		100% Other	None Detected
694418 17B E Floor Rm 6 Analyst: Renee Renauer	Mastic	Yellow Non-Fibrous Homogenous		100% Other	None Detected
694419 18A S Floor RM 6 Layer-1 Analyst: Renee Renauer	Leveler	White Non-Fibrous Homogenous	1% Cellulose 3% Fiberglass	96% Other	None Detected
694419 18A S Floor RM 6 Layer-2 Analyst: Renee Renauer	Glue	Yellow Non-Fibrous Homogenous		100% Other	None Detected
694420 18B E Floor Rm 6 Analyst: Renee Renauer	Leveler	White Non-Fibrous Homogenous	2% Cellulose 1% Fiberglass	97% Other	None Detected
694421 19A N Floor Rm 4 Analyst: Renee Renauer	12x12 Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
694422 19B NW Floor Rm 4 Analyst: Renee Renauer	12x12 Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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 Romulus, MI 48174

Location :
 5317 S MLK Blvd, Lansing, MI

ETC Job : 199882
 Client Project : 33-01-05-276-021
 Date Collected : 02/27/2018
 Date Received : 02/28/2018
 Date Analyzed : 03/02/2018

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



Lab Supervisor/Other Signatory



Analyst: Daniel Agnew



Analyst: Renee Renauer

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

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ENVIRONMENTAL TESTING LABORATORIES, INC

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

**Bulk Asbestos
Chain of Custody**

ETL Project #: 199882

Client: ETC	Contact: LIV HAKKEMAN	Project Location/Name: 5317 S. MLK BLVD. LANSING, MI
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600 Fax: (734) 955-6604 E-mail: results@2ell.com	Client Project #: 199882
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Date Sampled: 11-22-2017

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

PLM Instructions
(Check all that apply)

<input checked="" type="checkbox"/> PLM/EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> 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
629951	1A/B - 4A/B	AS PER SAMPLE COLLECTION FORM	AS PER SAMPLE COLLECTION FORM
↓			
629958			

	Date	Time
Relinquished (Name/Organization):	11-22-2017	5:30 am/pm
Received (Name/ETL):	11/28/17	8:00 am/pm
Stereoscopy Analysis (Name/ETL):	11-28-17	am/pm
Sample Login (Name/ETL):	11/28/17	8:00 am/pm
Analysis (Name/ETL):	11-28-17	am/pm
QA/QC Review (Name/ETL):	12/4/17	am/pm

Special Instructions: Point Count Any positives at or below 5%! THANKS -

Remarks:

[Signature]

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199882	Building:	5317 S. MILK BLVD, GANJINK, MI		Date:	11-22-2017	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
1	Material: HOUSE WRAP	(F)	A	EXT. HOUSE, S. WALL BAYS 1	EXT.	1750 ft ²	
	Description: BRICK PAPER		B	EXT. HOUSE, W. WALL S2	HOUSE		
2	Material: ASPHALT SHINGLES	(F)	A	EXT. ROOF DRIP LINE, W. SIDE	EXT.	1500 ft ²	
	Description: BRICK PAR-LIKE (TOP)		B	" " E. SIDE S4 ROOF	S4 ROOF		
3	Material: ASPHALT SHINGLES	NF	A	A5 2A ROOF	EXT.	1500 ft ²	
	Description: BRICK, PAR-LIKE (BOTTOM)		B	A5 2B ROOF	ROOF		
4	Material: WINDOW GLAZES (EXT)	NF	A	EXT. WINDOW S. WALL (WOT)	S7 EXT.	15	WINS.
	Description: WHITE CUTTY		B	EXT. WINDOW, S. WALL (EXT)	S8 HOUSE		
	Material: _____		A				
	Description: _____		B				
	Material: _____		A				
	Description: _____		B				
	Material: _____		A				
	Description: _____		B				
	Material: _____		A				
	Description: _____		B				
	Material: _____		A				
	Description: _____		B				

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199882

Client: ETC	Contact:	Project Location/Name:
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	5317 S MLK Blvd, Lansing MI
	Fax: (734) 955-6604	Client Project #:
	E-mail: results@2etil.com	Date Sampled: 2/27/18
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		

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

PLM Instructions
 (Check all that apply) 3 days

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> 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
	05A-G		
	06A-G		
	07A-C		
	08A-C		
	09A-B		
	↓		
	19A-B		

	Date	Time
Relinquished (Name/Organization):	2/27/18	5:30 am/pm
Received (Name/ETL):	2/28/18	1:03 am/pm
Stereoscopical Analysis (Name/ETL):	3-7-18	2:24 am/pm
Sample Login (Name/ETL):	3-1-18	am/pm
Analysis (Name/ETL):	3-1-18	2:24 am/pm
QA/QC Review (Name/ETL):	3-2-18	10:54 am/pm
Special Instructions:	Remarks	

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building: SS17 SMLCK Blvd		Date: 2/27/18	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location		
6	Material: Plaster grey	F	A	Rm 1 south wall 694381	Throughout 6200 SF	
			B	Rm 3 center ceiling 382		
			C	Rm 4 south wall 383		
			D	Rm 5 west wall 384		
			E	Rm 4 center ceiling 385		
			F	Rm 1 center ceiling 386		
			G	Rm 5 east wall 387		
66	Material: Shimmcoat white	NF	A	Same as 05A 388	Throughout 6200 SF	
			B	Same as 05B 389		
			C	Same as 05C 390		
			D	Same as 05D 391		
			E	Same as 05E 392		
			F	Same as 05F 393		
			G	Same as 05G 394		
07	Material: Texture white	NF	A	Rm 12 center ceiling 395	500 SF	
			B	Rm 12 west ceiling 396		
			C	Rm 12 east ceiling 397H2		

<1000 SF = 3 samples

1000 - <5000 = 5 samples

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

Revision date 5/7/2015

Job #:	Building: 5317 S MLK Blvd			Date: 2/27/18	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
8	Material: Duct wrap	F	A	On Top of large duct Rm 10	694398 10	150 SF	
	Description: grey		B	Duct Rm 10 399			
	Material: Description		C	Duct Rm 10 400			
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						

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

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199882	Building: 5317 S MLK Blvd					2/27/18			
9	Material: Poured concrete		NF	A	Rm 10 center floor	9	864 SF	49440	
	Description: grey			B	Rm 9 center floor			403	
10	Material: Dry wall		F	A	Rm 12 center ceiling	Throughout	6200 SF	404	
	Description: white			B	Rm 1 east wall			405	
11	Material: Tape		NF	A	Rm 4 east wall	Throughout	6200 SF	406	
	Description: white			B	Rm 4 east wall			407	
12	Material: Mud		F	A	same as 12A	Throughout	6200 SF	408	
	Description: white			B	same as 12B			409	
13	Material: Blown in insulation		F	A	Rm 1 center ceiling	Throughout	3000 SF	410	
	Description: grey			B	Rm 13 floor center			411	
14	Material: 12x12 floor tile		NF	A	Rm 7 south floor	7	100 SF	412	
	Description: white			B	Rm 7 south floor			413	
15	Material: Mastic		NF	A	same as 14A	7	100 SF	414	
	Description: cream			B	same as 14B			415	
16	Material: 12x12 floor tile		NF	A	South floor Rm 6	6	120 SF	416	
	Description: blue			B	East floor Rm 6			417	
17	Material: Mastic		NF	A	same as 16A	6	120 SF	418	
	Description: yellow			B	same as 16B			419	
18	Material: Floor Ledges w/ mesh		NF	A	same as 16A	6	120 SF	420	
	Description: white			B	same as 16B				

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: 5317 S MLK Blvd		Date: 2/27/18	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		
19	Material: 12x12 PFS Description: g over	NF	A	North floor Rm 4694421	100	
	Material: Description		B	NW floor Rm 4422	5K	
	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**.

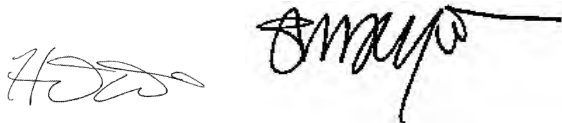
Laboratory Analysis / Results

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: _____

Bryan Dryer & Heather Davis, Michigan Certified Asbestos Inspector (s)
Michigan Accreditation Number (s) A-90292 & A-48908