

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	NA
House No:	648 S Hayford, Lansing, MI 48912
Date Inspected:	4/5/2017
Inspected By:	Joe Reynolds
Inspectors State Card #	A49992

Building Information			
No. Stories	2	Garage	NA
Square Footage	1500 SF	Garage Square Footage	NA
Basement Square Footage	600 SF	Garage Siding	NA
Siding	Aluminum, Asphalt	Garage Color	NA
Color	White	Garage Shingles	NA
Roof Shingles	Asphalt Shingle, Roll Roofing	Electric (Gone)	Disconnected
Asbestos present	Yes	Gas (Gone)	Disconnected
Inaccessible areas	Garage is not being demolished		



# Pre-Demolition Environmental Inspection Summary Report

Parcel: NA  
House No. 648 S Hayford, Lansing, MI 48912  
Date Inspected: 4/5/2017

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Smoke Detector	4	Room 8, 10, 11
Thermostat	1	Room 2

## TIRE(s) REPORT

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

None observed above household quantities

Pre-Demolition Environmental Inspection Summary Report

Parcel:	NA
House No.	648 S Hayford, Lansing, MI 48912
Date Inspected:	4/5/2017

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

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Top coat, tan	Throughout	5000 SF	No
2	F	Plaster, grey	Throughout	5000 SF	No
3	F	Drywall tape and mud	Room 3, 5, 6 (ceiling)	25 SF	No
4	NF	Mastic, yellow brown (under 34)	Room 4	30 SF	No
5	F	Drywall, grey	Room 3, 4	100 SF	No
6	NF	12x12 Tile, green marble	Room 3	110 SF	No
7	NF	Mastic, tan (under 6)	Room 3	110 SF	No
<b>8</b>	<b>NF</b>	<b>Linoleum, tan stone pattern</b>	<b>Room 3</b>	<b>110 SF</b>	<b>YES</b>
9	NF	Mastic, brown (under 8)	Room 3	110 SF	No
10	F	Insulation, orange	Room 5	140 SF	No
11	F	Insulation, white fiber	Room 3	170 SF	No
12	NF	12x12 Tile, white/grey	Room 6	15 SF	No
13	NF	Mast, grey (under 12)	Room 6	15 SF	No
14	NF	Linoleum, white/grey	Room 6	15 SF	No
15	NF	Mastic, tan (under 14)	Room 6	15 SF	No
16	NF	Linoleum, green pattern	Room 9	40 SF	No
17	NF	Mastic, grey (under 16)	Room 9	40 SF	No
18	NF	12x12 Tile, brown pattern	Room 11	108 SF	No
19	NF	Mastic, clear (under 18)	Room 11	108 SF	No
<b>20</b>	<b>F</b>	<b>Duct wrap, grey</b>	<b>Room 2, 10, 12</b>	<b>30 LF</b>	<b>YES</b>

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

Pre-Demolition Environmental Inspection Summary Report

Parcel:	NA
House No.	648 S Hayford, Lansing, MI 48912
Date Inspected:	4/5/2017

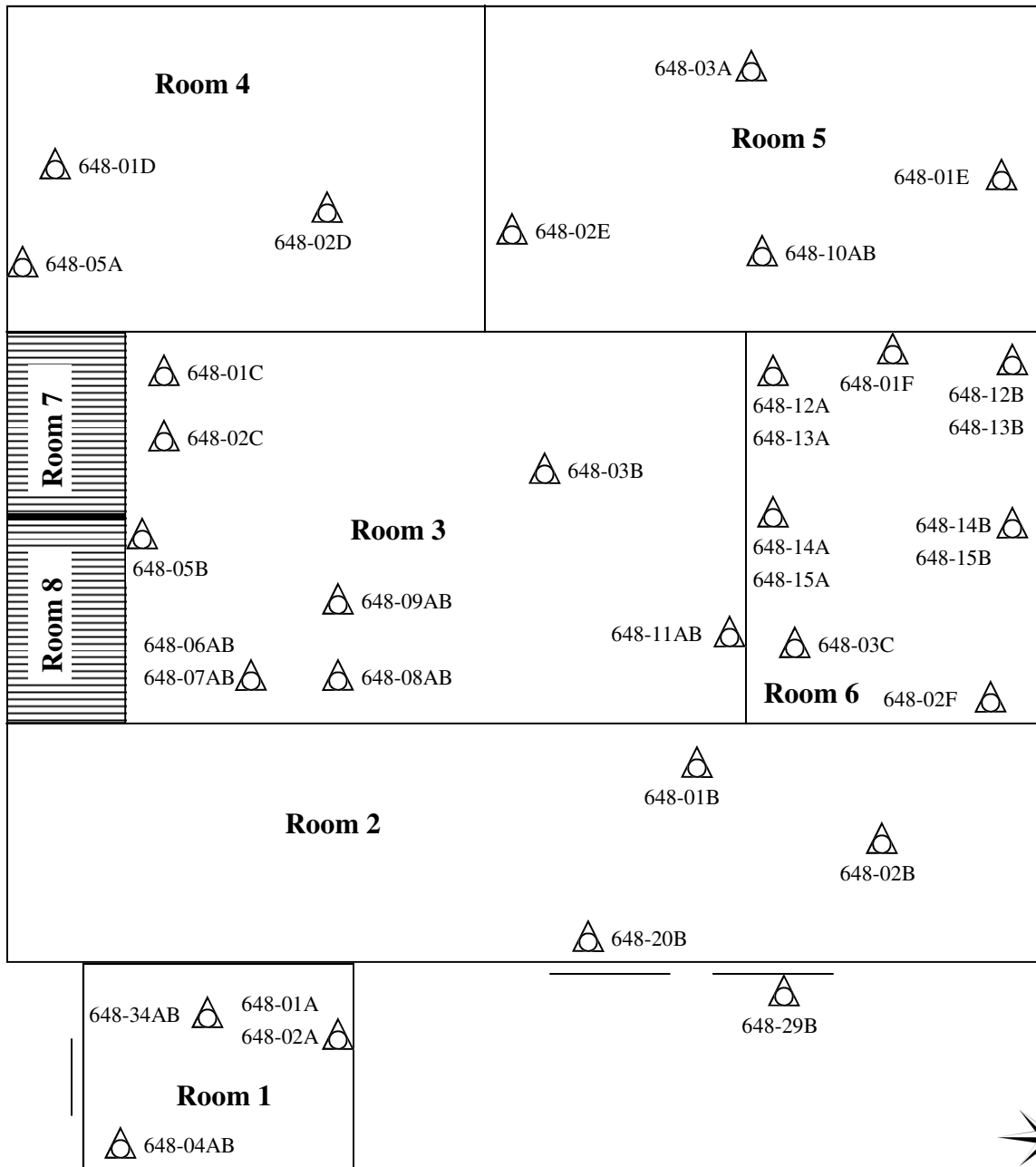
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**



<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
21	F	Insulation, grey blown	Room 10	300 SF	No
22	F	Insulation, white beads	Room 8	300 SF	No
23	F	Insulation, white wool	Room 11	300 SF	No
24	NF	Asphalt siding, brown stones	Exterior	1200 SF	No
25	F	Fiber board, brown fibers	Exterior	1200 SF	No
26	F	House wrap, black paper	Exterior	1200 SF	No
27	NF	Asphalt shingle, white stones	Exterior	1100 SF	No
28	NF	Roll roofing, black stones	Exterior	250 SF	No
29	NF	Window glaze, grey	Exterior	18 windows	No
30	NF	Linoleum, tan stones	Room 7	12 SF	No
31	NF	12x12 Tile, grey	Room 12	25 SF	No
32	NF	Concrete, grey	Room 12	750 SF	No
33	NF	Cement wall, grey	Room 12	12 SF	No
34	NF	12x12 Tile, green marble	Room 1	30 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.

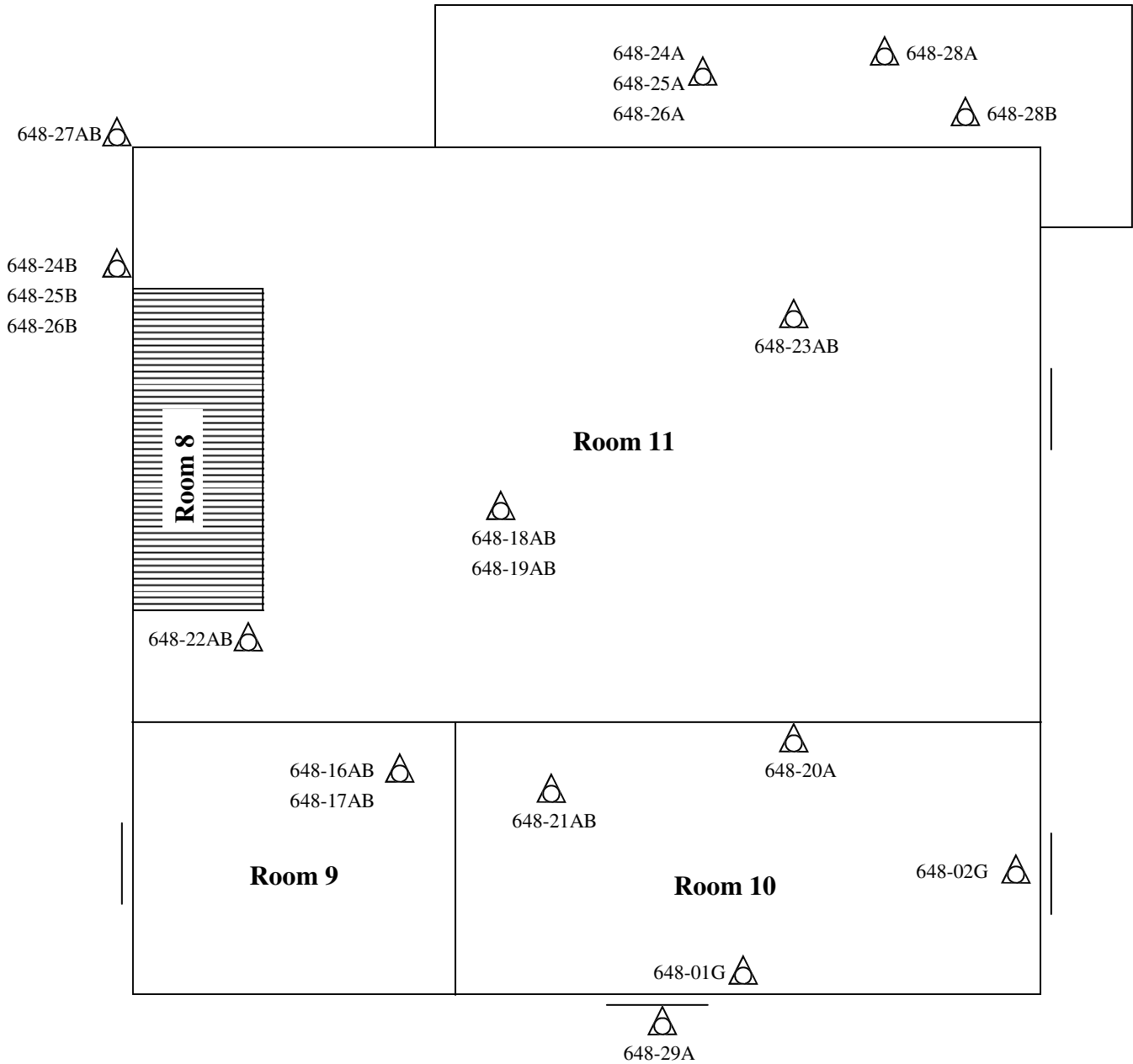
Attachment:



Site Drawing



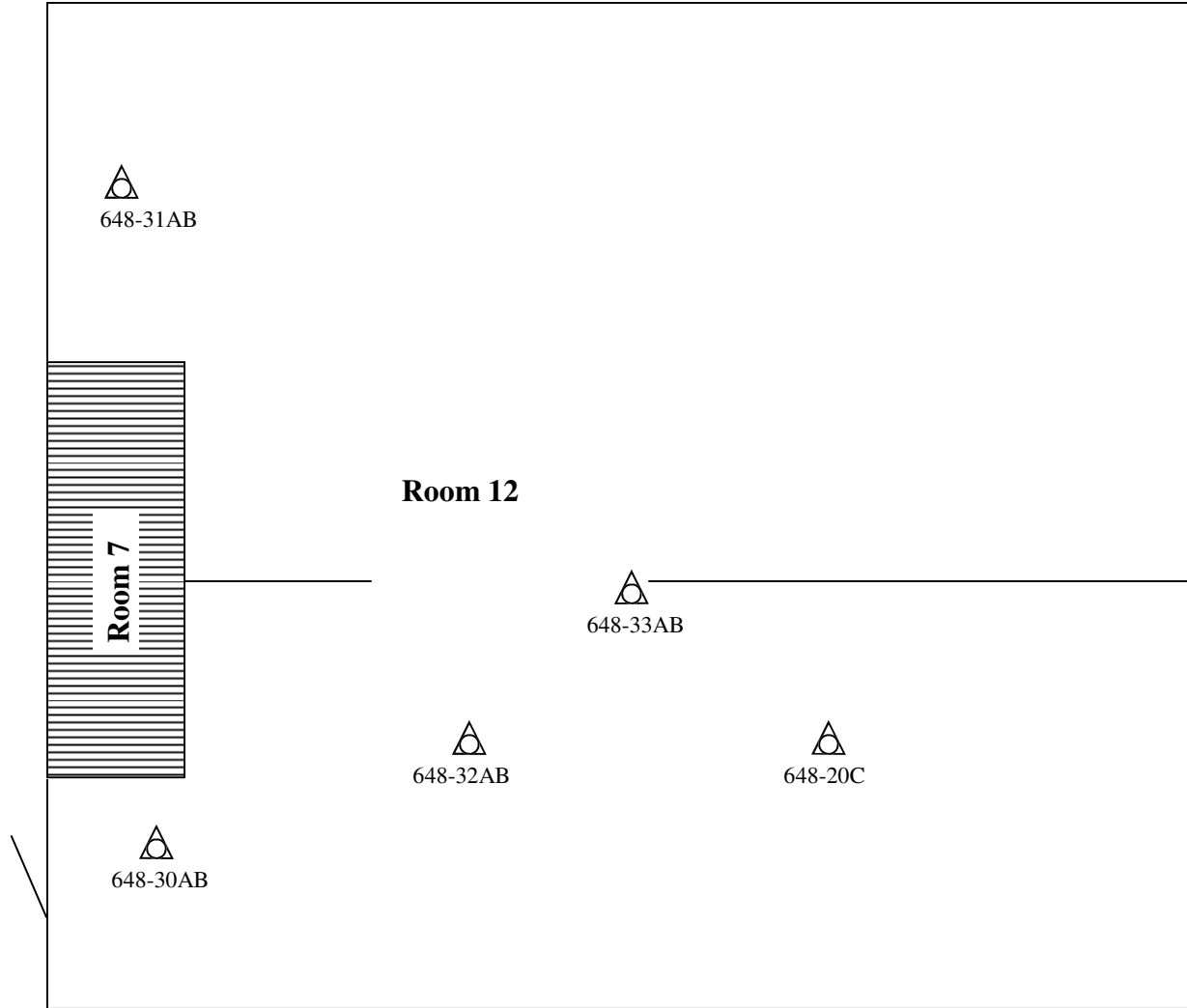
- HAZ Hazardous materials
-  Sample Location
-  Tires



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.



- HAZ      Hazardous materials
-       Sample Location
-       Tires

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.



- HAZ Hazardous materials
-  Sample Location
-  Tires

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: NA  
House No. 648 S Hayford, Lansing, MI 48912  
Date Inspected: 4/5/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of Hazardous Materials

Parcel:	NA
House No.	648 S Hayford, Lansing, MI 48912
Date Inspected:	4/5/2017



Smoke Detector



Thermostat

## Representative Pictures of Asbestos Containing Materials

Parcel:	NA
House No.	648 S Hayford, Lansing, MI 48912
Date Inspected:	4/5/2017



Duct wrap (grey)



Linoleum (tan stone pattern)

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 : Vacant Residence  
648 S Hayford, Lansing MI

Attention : Roxanne Case

Client Project : N/A

ETC Job : 191155

Report Date : 4/14/2017

Login #	Sample ID	Work Requested	Completed
534888	01A	Asbestos Analysis	04/14/2017
534889	01B	Asbestos Analysis	04/14/2017
534890	01C	Asbestos Analysis	04/14/2017
534891	01D	Asbestos Analysis	04/14/2017
534892	01E	Asbestos Analysis	04/14/2017
534893	01F	Asbestos Analysis	04/14/2017
534894	01G	Asbestos Analysis	04/14/2017
534895	02A	Asbestos Analysis	04/14/2017
534896	02B	Asbestos Analysis	04/14/2017
534897	02C	Asbestos Analysis	04/14/2017
534898	02D	Asbestos Analysis	04/14/2017
534899	02E	Asbestos Analysis	04/14/2017
534900	02F	Asbestos Analysis	04/14/2017
534901	02G	Asbestos Analysis	04/14/2017
534902	03A	Asbestos Analysis	04/14/2017
534903	03B	Asbestos Analysis	04/14/2017
534904	03C	Asbestos Analysis	04/14/2017
534907	20A	Asbestos Analysis	04/14/2017
534908	20B	Asbestos Analysis	04/14/2017
534909	20C	Asbestos Analysis	04/14/2017

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
534910	34A	Asbestos Analysis	04/14/2017
534911	34B	Asbestos Analysis	04/14/2017
534912	04A	Asbestos Analysis	04/14/2017
534913	04B	Asbestos Analysis	04/14/2017
534914	05A	Asbestos Analysis	04/14/2017
534915	05B	Asbestos Analysis	04/14/2017
534916	06A	Asbestos Analysis	04/14/2017
534917	06B	Asbestos Analysis	04/14/2017
534918	07A	Asbestos Analysis	04/14/2017
534919	07B	Asbestos Analysis	04/14/2017
534920	08A	Asbestos Analysis	04/14/2017
534921	08B	Asbestos Analysis	04/14/2017
534922	09A	Asbestos Analysis	04/14/2017
534923	09B	Asbestos Analysis	04/14/2017
534924	10A	Asbestos Analysis	04/14/2017
534925	10B	Asbestos Analysis	04/14/2017
534926	11A	Asbestos Analysis	04/14/2017
534927	11B	Asbestos Analysis	04/14/2017
534928	12A	Asbestos Analysis	04/14/2017
534929	12B	Asbestos Analysis	04/14/2017
534930	13A	Asbestos Analysis	04/14/2017
534931	13B	Asbestos Analysis	04/14/2017
534932	14A	Asbestos Analysis	04/14/2017
534933	14B	Asbestos Analysis	04/14/2017
534934	15A	Asbestos Analysis	04/14/2017
534935	15B	Asbestos Analysis	04/14/2017
534936	16A	Asbestos Analysis	04/14/2017

---

Login #	Sample ID	Work Requested	Completed
534937	16B	Asbestos Analysis	04/14/2017
534938	17A	Asbestos Analysis	04/14/2017
534939	17B	Asbestos Analysis	04/14/2017
534940	18A	Asbestos Analysis	04/14/2017
534941	18B	Asbestos Analysis	04/14/2017
534942	19A	Asbestos Analysis	04/14/2017
534943	19B	Asbestos Analysis	04/14/2017
534944	21A	Asbestos Analysis	04/14/2017
534945	21B	Asbestos Analysis	04/14/2017
534946	22A	Asbestos Analysis	04/14/2017
534947	22B	Asbestos Analysis	04/14/2017
534948	23A	Asbestos Analysis	04/14/2017
534949	23B	Asbestos Analysis	04/14/2017
534950	24A	Asbestos Analysis	04/14/2017
534951	24B	Asbestos Analysis	04/14/2017
534952	25A	Asbestos Analysis	04/14/2017
534953	25B	Asbestos Analysis	04/14/2017
534954	26A	Asbestos Analysis	04/14/2017
534955	26B	Asbestos Analysis	04/14/2017
534956	27A	Asbestos Analysis	04/14/2017
534957	27B	Asbestos Analysis	04/14/2017
534958	28A	Asbestos Analysis	04/14/2017
534959	28B	Asbestos Analysis	04/14/2017
534960	29A	Asbestos Analysis	04/14/2017
534961	29B	Asbestos Analysis	04/14/2017
534962	30A	Asbestos Analysis	04/14/2017
534963	30B	Asbestos Analysis	04/14/2017

---



---

Login #	Sample ID	Work Requested	Completed
534964	31A	Asbestos Analysis	04/14/2017
534965	31B	Asbestos Analysis	04/14/2017
534966	32A	Asbestos Analysis	04/14/2017
534967	32B	Asbestos Analysis	04/14/2017
534968	33A	Asbestos Analysis	04/14/2017
534969	33B	Asbestos Analysis	04/14/2017

---

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 :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534888 01A RM 01 - Wall - North Analyst: Dave Cousino	Top Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534889 01B RM 02 - Wall - North Analyst: Dave Cousino	Top Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534890 01C RM 03 - Wall - South Analyst: Dave Cousino	Top Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
534891 01D RM 04 - Wall - South Analyst: Dave Cousino	Top Coat	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534892 01E RM 05 - Wall - North Analyst: Dave Cousino	Top Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534893 01F RM 06 - Wall - West Analyst: Dave Cousino	Top Coat	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534894 01G RM 10 - Wall - South Analyst: Dave Cousino	Top Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534895 02A RM 01 - North - Wall Analyst: Dave Cousino	Plaster	Gray Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534896 02B RM 02 - North - Wall Analyst: Dave Cousino	Plaster	Gray Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534897 02C RM 03 - South - Wall Analyst: Dave Cousino	Plaster	Gray Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
534898 02D Room 04 - Ceiling Analyst: Dave Cousino	Plaster	Gray Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
534899 02E Room 05 - Wall Analyst: Dave Cousino	Plaster	Gray Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534900 02F Room 06 - Wall Analyst: Dave Cousino	Plaster	Gray Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
534901 02G Room 10 - Wall Analyst: Dave Cousino	Plaster	Gray Non-Fibrous Homogenous	8% Cellulose	92% 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 :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534902 03A Room 05 - Ceiling Layer-1 Analyst: Dave Cousino	Tape	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534902 03A Room 05 - Ceiling Layer-2 Analyst: Dave Cousino	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534903 03B Room 03 - Ceiling Layer-1 Analyst: Dave Cousino	Tape	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534903 03B Room 03 - Ceiling Layer-2 Analyst: Dave Cousino	Mud	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534904 03C Room 06 - Ceiling Layer-1 Analyst: Dave Cousino	Tape	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
534904 03C Room 06 - Ceiling Layer-2 Analyst: Dave Cousino	Mud	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534907 20A Room 10 Analyst: Dave Cousino	Duct Wrap	Gray Fibrous Homogenous	60% Cellulose	10% Other	30% Chrysotile

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534908 20B Room 02 Analyst: Dave Cousino		Not Analyzed			
534909 20C Room 12 Analyst: Dave Cousino		Not Analyzed			
534910 34A Room 01 - Floor Analyst: Dave Cousino	12x12 Floor Tile (Marble)	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534911 34B Room 01 - Floor Analyst: Dave Cousino	12x12 Floor Tile (Marble)	Green Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
534912 04A Room 01 - Floor Analyst: Dave Cousino	Mastic (Above)	Yellow Non-Fibrous Homogenous	8% Cellulose	92% Other	None Detected
534913 04B Room 01 - Floor Analyst: Dave Cousino	Mastic (Above)	Yellow Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
534914 05A Room 04 - South - Wall Analyst: Dave Cousino	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% 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 :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534915 05B Room 03 - South - Wall Analyst: Dave Cousino	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534916 06A Room 03 - Floor Analyst: Dave Cousino	12x12 Floor Tile (Marble)	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534917 06B Room 03 - Floor Analyst: Dave Cousino	12x12 Floor Tile (Marble)	Green Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534918 07A Room 03 - Floor Analyst: Dave Cousino	Mastic (Above)	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534919 07B Room 03 - Floor Analyst: Dave Cousino	Mastic (Above)	Tan Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
534920 08A Room 03 - Floor Analyst: Dave Cousino	Linoleum (Stone Pattern)	Tan Fibrous Homogenous	60% Cellulose	25% Other	15% Chrysotile
534921 08B Room 03 - Floor Analyst: Dave Cousino		Not Analyzed			

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

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534922 09A Room 03 - Floor Analyst: Dave Cousino		Not Analyzed			
534923 09B Room 03 - Floor Analyst: Dave Cousino		Not Analyzed			
534924 10A Room 05 - Ceiling Analyst: Dave Cousino	Insulation	Orange Fibrous Homogenous	2% Cellulose 95% Mineral wool	3% Other	None Detected
534925 10B Room 05 - Ceiling Analyst: Dave Cousino	Insulation	Orange Fibrous Homogenous	3% Cellulose 95% Mineral wool	2% Other	None Detected
534926 11A Room 03 - Wall Analyst: Dave Cousino	Insulation	White Fibrous Homogenous	10% Cellulose 80% Fiberglass	10% Other	None Detected
534927 11B Room 03 - Wall Analyst: Dave Cousino	Insulation	White Fibrous Homogenous	15% Cellulose 80% Mineral wool	5% Other	None Detected
534928 12A Room 06 - Floor Analyst: Dave Cousino	12x12 Floor Tile	White/Gray 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 :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534929 12B Room 06 - Floor Analyst: Dave Cousino	12x12 Floor Tile	White/Gray Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
534930 13A Room 06 - Floor Analyst: Dave Cousino	Mastic (Under Mat 12)	Gray Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
534931 13B Room 06 - Floor Analyst: Dave Cousino	Mastic (Under Mat 12)	Gray Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected
534932 14A Room 06 - Floor Analyst: Dave Cousino	Linoleum	White/Gray Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534933 14B Room 06 - Floor Analyst: Dave Cousino	Linoleum	White/Gray Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534934 15A Room 06 - Floor Analyst: Dave Cousino	Mastic (Under Mat 14)	Tan Non-Fibrous Homogenous	8% Cellulose	92% Other	None Detected
534935 15B Room 06 - Floor Analyst: Dave Cousino	Mastic (Under Mat 14)	Tan Non-Fibrous Homogenous	6% Cellulose	94% 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 :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534936 16A Room 09 - Floor Analyst: Dave Cousino	Linoleum (Green Pattern)	Green Fibrous Homogenous	30% Cellulose	70% Other	None Detected
534937 16B Room 09 - Floor Analyst: Dave Cousino	Linoleum (Green Pattern)	Green Fibrous Homogenous	20% Cellulose	80% Other	None Detected
534938 17A Room 09 - Floor Analyst: Dave Cousino	Mastic (Under Mat 16)	Gray Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
534939 17B Room 09 - Floor Analyst: Dave Cousino	Mastic (Under Mat 16)	Gray Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
534940 18A Room 11 - Floor Analyst: Dave Cousino	12x12 Floor Tile (Brown Pattern)	Brown Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534941 18B Room 11 - Floor Analyst: Dave Cousino	12x12 Floor Tile (Brown Pattern)	Brown Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
534942 19A Room 11 - Floor Analyst: Dave Cousino	Mastic (Under Mat 18)	Clear Non-Fibrous Homogenous	6% Cellulose	94% 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 :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534943 19B Room 11 - Floor Analyst: Dave Cousino	Mastic (Under Mat 18)	Clear Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
534944 21A Room 10 - Ceiling Analyst: Dave Cousino	Blown In Insulation	Gray Fibrous Homogenous	5% Cellulose 90% Mineral wool	5% Other	None Detected
534945 21B Room 10 - Ceiling Analyst: Dave Cousino	Blown In Insulation	Gray Fibrous Homogenous	3% Cellulose 95% Fiberglass	2% Other	None Detected
534946 22A Room 08 - Ceiling Analyst: Dave Cousino	Insulation (White Beads)	White Fibrous Homogenous	3% Cellulose 90% Mineral wool	7% Other	None Detected
534947 22B Room 08 - Ceiling Analyst: Dave Cousino	Insulation (White Beads)	White Fibrous Homogenous	5% Cellulose 90% Mineral wool	5% Other	None Detected
534948 23A Room 11 - Ceiling Analyst: Dave Cousino	Insulation (White Wool)	White Fibrous Homogenous	2% Cellulose 90% Mineral wool	8% Other	None Detected
534949 23B Room 11 - Ceiling Analyst: Dave Cousino	Insulation (White Wool)	White Fibrous Homogenous	3% Cellulose 90% Mineral wool	7% 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 :** Vacant Residence  
648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534950 24A Exterior House - 2nd Floor Analyst: Dave Cousino	Asphalt Siding (Brown Stones)	Brown Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
534951 24B Exterior House - 1st Floor Analyst: Dave Cousino	Asphalt Siding (Brown Stones)	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
534952 25A Exterior House - 2nd Floor Analyst: Dave Cousino	Fiber Board	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
534953 25B Exterior House - 1st Floor Analyst: Dave Cousino	Fiber Board	Brown Fibrous Homogenous	85% Cellulose	15% Other	None Detected
534954 26A Exterior House - 2nd Floor Analyst: Dave Cousino	House Wrap	Black Fibrous Homogenous	20% Cellulose	80% Other	None Detected
534955 26B Exterior House - 1st Floor Analyst: Dave Cousino	House Wrap	Black Fibrous Homogenous	25% Cellulose	75% Other	None Detected
534956 27A Exterior House - 2nd Floor Analyst: Dave Cousino	House Wrap	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534957 27B Exterior House - 2nd Floor Analyst: Dave Cousino	House Wrap	White Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected
534958 28A Exterior House - 2nd Floor Analyst: Dave Cousino	Roll Roofing (Black Stones)	Black Non-Fibrous Homogenous	1% Cellulose 3% Fiberglass	96% Other	None Detected
534959 28B Exterior House - 2nd Floor Analyst: Dave Cousino	Roll Roofing (Black Stones)	Black Non-Fibrous Homogenous	1% Cellulose 3% Fiberglass	96% Other	None Detected
534960 29A Window - East - 2nd Floor Analyst: Dave Cousino	Window Glazing	Gray Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534961 29B Window - East - 1st Floor Analyst: Dave Cousino	Window Glazing	Gray Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534962 30A Room 07 - Landing Analyst: Dave Cousino	Linoleum (Stones)	Tan Fibrous Homogenous	25% Cellulose	75% Other	None Detected
534963 30B Room 07 - Landing Analyst: Dave Cousino	Linoleum (Stones)	Tan Fibrous Homogenous	20% Cellulose	80% 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 :** Vacant Residence  
 648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
534964 31A Room 12 - Basement Analyst: Dave Cousino	12x12 Floor Tile	Gray Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534965 31B Room 12 - Basement Analyst: Dave Cousino	12x12 Floor Tile	Gray Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534966 32A Room 12 - Floor Analyst: Dave Cousino	Concrete	Gray Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
534967 32B Room 12 - Floor Analyst: Dave Cousino	Concrete	Gray Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534968 33A Room 12 - Wall Analyst: Dave Cousino	Cement Wall	Gray Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
534969 33B Room 12 - Wall Analyst: Dave Cousino	Cement Wall	Gray Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Dave Cousino



# Certificate of Analysis

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

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
38900 Huron River Drive  
Romulus, MI 48174  
**Location :** Vacant Residence  
648 S Hayford, Lansing MI

**ETC Job :** 191155  
**Client Project :** N/A  
**Date Collected :** 04/05/2017  
**Date Received :** 04/10/2017  
**Date Analyzed :** 04/14/2017

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

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

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

**ENVIRONMENTAL TESTING LABORATORIES, INC**

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

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 191155

<b>Client:</b> ETC	<b>Contact:</b> Phone: (734) 955-6600	<b>Project Location/name:</b> 648 S. HAYFORD LANSING, MI 48912
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2etl.com	<b>Client Project #:</b>
<b>Please Provide Results:</b> <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		<b>Date Sampled:</b> 4-5-17

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

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

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

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
534888	01 A	See attached	sheets (5)
	↓		
	02 G		
	03 A		
	03 B		
	03 C		
	04 A		
	↓		
	19 B		
	20 A		
	20 B		
534969	20 C		

	Date	Time
Relinquished (Name/Organization): <i>John D. Jan ETC</i>	4-7-17	5 am/pm
Received (Name/ETL): <i>John D. Jan</i>	4-10-17	10:00 am/pm
Stereoscopic Analysis (Name/ETL): <i>John D. Jan</i>	4-10-17	am/pm
Sample Login (Name/ETL): <i>A.C.</i>	4/13/17	am/pm
Analysis (Name/ETL):		am/pm
QA/QC Review (Name/ETL):		am/pm

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

# Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

(50)

Job #:	Building: <b>648 S. Hayford</b>		Date: <b>4.5-17</b>	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location		
01	Material: <b>TOP COAT</b>	534888 <b>F</b> 889 890 891 892 893 894	A	Rm 1 wall N	Throughout 5000 SF	
			B	Rm 2 wall N		
			C	Rm 3 wall S		
			D	Rm 4 wall S		
			E	Rm 5 wall N		
			F	Rm 6 wall W		
			G	Rm 10 wall S		
02	Material: <b>PLASTER</b>	895 896 897 898 899 900 901	A	Rm 1 N-WALL	Throughout 5000 SF	
			B	Rm 2 N-WALL		
			C	Rm 3 S-WALL		
			D	Rm 4 <del>WALL</del> Ceiling		
			E	Rm 5 WALL		
			F	Rm 6 WALL		
			G	Rm 10 WALL		
03	Material: <b>DRYWALL TAPE</b>	902 903 <b>F</b> 904 905 906	A	Rm 5 ceiling	3, 5, 6 ceiling 25 SF	
			B	Rm 3 ceiling		
			C	Rm 4 ceiling		
			D			
			E			

<1000 SF = 3 samples

1000 - <5000 = 5 samples

>5000 = 7 samples



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

Job #:	191155		Building:	648 S. Hayward		Date:	4-5-17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
19	Material: <del>MASTIC</del> for TSI	<del>NF</del>	A					
	Description: Gary		B					
			C					
19	Material: <del>MASTIC</del> for TSI	<del>NF</del>						
	Description: Gary							
19	Material: <del>MASTIC</del> for TSI	<del>NF</del>						
	Description: Gary							
20	Material: <del>MASTIC</del> for TSI	534967	A	Rm 10	10, 2, 12	30		
	Description: <del>PIPE</del> DUCT WRAP		B	Rm 2				
			C	Rm 12		LF		
	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 #:	191155		Building:	648 S. Hayford		Date:	4-5-17	
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
03	Material: 12 X 12 Tile	534 916	A	Rm 1 floor	1	30 SF		
	Description: Green Marble	NF 911	B	Rm 1 floor				
04	Material: MASTIC - ABOVE	912	A	Rm 1 floor	1	30 SF		
	Description: Yellow Brown	AF 913	B	Rm 1 floor				
05	Material: Drywall	914	A	Rm 4 S-wall	4, 3	100 SF		
	Description: Grey	F 915	B	Rm 3 S-wall				
06	Material: 12 X 12 Tile	916	A	Rm 3 floor	3	110 SF		
	Description: Green Marble	NF 917	B	Rm 3 floor				
07	Material: MASTIC - ABOVE	918	A	Rm 3 floor	3	110 SF		
	Description: TAN	NF 919	B	Rm 3 floor				
08	Material: LINOLUM	920	A	Rm 3 floor	3	110 SF		
	Description: TAN STONE PATTERN	NF 921	B	Rm 3 floor				
09	Material: MASTIC - ABOVE	922	A	Rm 3 floor	3	110 SF		
	Description: Brown	NF 923	B	Rm 3 floor				
10	Material: INSULATION	924	A	Rm 5 Ceiling	5	140 SF		
	Description: Batts - Orange	F 925	B	Rm 5 Ceiling				
11	Material: INSULATION	926	A	Rm 3 wall	3	110 SF		
	Description: White Fibre	F 927	B	Rm 3 wall				
12	Material: 12 X 12 Tile	928	A	Rm 6 floor	6	15 SF		
	Description: white / grey	NF 929	B	Rm 6 floor				

Asbestos Material Sampling Summary Sheet  
Miscellaneous materials

Revision date 5/7/2015

Job #:	191155		Building:	648 S. Hayward		Date:	4-5-17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
13	Material: MASTIC for 12 Description: Grey	534 936 NF 931	A B	Rm 6 floor Rm 6 floor	6	15 SF		
14	Material: LINOLIUM Description: white / grey	932 NF 933	A B	Rm 6 floor Rm 6 floor	6	15 SF		
15	Material: MASTIC for 14 Description: TAN	934 NF 935	A B	Rm 6 floor Rm 6 floor	6	15 SF		
16	Material: LINOLIUM Description: GREEN PATTEN	936 NF 937	A B	Rm 9 floor Rm 9 floor	9	40 SF		
17	Material: MASTIC for 16 Description: Grey	938 NF 939	A B	Rm 9 floor Rm 9 floor	9	40 SF		
18	Material: 12 X 12 Tile Description: Brown PATTEN	940 NF 941	A B	Rm 11 floor Rm 11 floor	11	108 SF		
19	Material: MASTIC for 18 Description: Clear	942 NF 943	A B	Rm 11 floor Rm 11 floor	11	108 SF		
21	Material: INSULATION Description: Grey Blown	944 F 945	A B	Rm 10 Ceiling Rm 10 Ceiling	10	300 SF		
22	Material: INSULATION Description: White Beads	946 F 947	A B	Rm 8 Ceiling Rm 8 Ceiling	8	300 SF		
23	Material: INSULATION Description: white wool	948 F 949	A B	Rm 11 Ceiling Rm 11 Ceiling	11	300 SF		

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

Revision date 5/7/2015

Job #:	191155		Building:	648 S. Hayford		Date:	4-5-17	
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
24	Material: Asphalt Siding Description: Brown Stones	534 <sup>950</sup> NF <sup>951</sup>	A B	Ext. house 2nd floor Ext. house 1st floor	Ext. House	1200 <sup>SF</sup>		
25	Material: FIBER BOARD Description: BROWN FIBERS	952 F <sup>953</sup>	A B	Ext. house 2nd floor Ext. house 1st floor	Ext. House	1200 <sup>SF</sup>		
26	Material: House wrap Description: Black paper	954 F <sup>955</sup>	A B	Ext. house 2nd floor Ext. house 1st floor	Ext. House	1200 <sup>SF</sup>		
27	Material: Asphalt Roof Description: Shingle white stones	956 NF <sup>957</sup>	A B	Ext. house 2nd floor Ext. house 2nd floor	Ext. House	1100 <sup>SF</sup>		
28	Material: Roll Roofing Description: Black stones	959 NF <sup>959</sup>	A B	Ext. house 2nd floor Ext. house 2nd floor	Ext. House	250 <sup>SF</sup>		
29	Material: Window Glazing Description: Green	960 NF <sup>961</sup>	A B	Window - E 2nd floor Window 1st floor	Ext. House	18 TRIAL		
30	Material: Limestone Description: TAN - Stones	962 NF <sup>963</sup>	A B	Rm 7 Landing Rm 7 Landing	7	12 <sup>SF</sup>		
31	Material: 12 X 12 Tile Description: Grey	964 NF <sup>965</sup>	A B	Rm 12 Bsmt Rm 12 Bsmt	12	23 <sup>SF</sup>		
32	Material: Concrete Description: Grey	966 NF <sup>967</sup>	A B	Rm 12 floor Rm 12 floor	12	750 <sup>SF</sup>		
33	Material: Cement - wall Description: Grey	968 NF <sup>969</sup>	A B	Rm 12 wall Rm 12 wall	12	12 <sup>SF</sup>		

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: \_\_\_\_\_

Joe Reynolds, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A49992



July 25, 2017

Ms. Roxanne Case  
 Grant Manager  
 Ingham County Land Bank  
 3024 Turner Street  
 Lansing, Ingham County, Michigan 48906

Re: Pre-Demolition Regulated Materials Survey  
 1514 Illinois Ave., Lansing, Ingham County, Michigan

Dear Ms. Case:

The Mannik & Smith Group, Inc. (MSG) is pleased to present Ingham County with the results of the limited pre-demolition regulated materials survey (RMS) performed at 1514 Illinois Ave., Lansing, Ingham County, Michigan (hereinafter referred to as the "Site") by Charlie Bush (Accreditation Number A34293) and Kory McKay (Accreditation Number A47903).

**SUMMARY**

Building Information	
Property Address	1514 Illinois Ave., Lansing, MI
Parcel #	33-01-01-10-251-081
No. Stories	2
Square Footage (approx.)	1,820 SF
Siding	Vinyl, Wood
Basement	Yes; 660 SF
Garage	No



Asbestos Containing Material				
Location	Material Group	Friable/Non Friable	Asbestos	Quantity
House Vents	Vent Wrap	Friable	40% Chrysotile	15 SF

Hazardous Materials		
Location	Material Description	Quantity
Whole House	CFL Light Bulbs	15
Whole House	Smoke Detector	5



TECHNICAL SKILL.  
 CREATIVE SPIRIT.



## PURPOSE AND SCOPE OF WORK

The purpose of the RMS was to identify, quantify and document the location of regulated materials that may be encountered during demolition of the on-site structure. To accomplish this purpose, MSG performed the following scope of work:

- 1) Pre-demolition asbestos-containing material (ACM) survey.
- 2) Universal wastes, hazardous materials, and other regulated wastes survey.

## METHODOLOGIES

The RMS was conducted on July 18, 2017. Methodologies employed during the completion of each task of the RMS are detailed below.

### ACM Survey Procedures

The ACM survey was performed in general accordance with guidelines set forth in the Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763. The National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations govern demolition and renovation activities in which asbestos is present. The NESHAP rule distinguishes between Regulated Asbestos-Containing Materials (RACM) that would readily release asbestos fibers when damaged or disturbed and those materials that are unlikely to result in significant fiber release during demolition activities. The purpose of this survey is to determine if ACM within the Site building are RACM and thus, subject to the NESHAP, and to comply with the Michigan Occupational Safety and Health Administration (MIOSHA) and guidelines set forth in the Occupational Safety and Health Administration (OSHA) Regulations Standards 29 CFR 1910.1101.

RACM, as defined by NESHAP, is classified into four parts, (1) friable asbestos material, (2) Category I non-friable ACM (packing, gaskets, floor tile and roofing products) that has become friable, (3) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (4) Category II non-friable ACM (all other ACM products) that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The suspect ACM identified during this survey was grouped into homogeneous materials (i.e. similar materials which are uniform in color and texture) and:

- Described and quantified it in linear feet (LF) or square feet (SF);
- Identified and classified as friable or non-friable;
- Assessed as being in good, fair or poor condition;
- Assigned an EPA classification type (surfacing material, thermal system insulation or miscellaneous);
- Classified as RACM or non-RACM; and
- Sampled, or identified as presumed ACM (PACM).

MSG performed services associated with the ACM survey in conformance with the care and skill ordinarily used by other reputable environmental consulting firms practicing under similar conditions, at the same time, and in the same or similar locality. The ACM survey included a systematic visual inspection of readily accessible areas of the Site building. Destructive sampling methods were used and suspect ACM samples were collected by State of Michigan Accredited Asbestos Inspector, Charlie Bush (Accreditation Number A34293) and Kory McKay (Accreditation Number A47903). Based on the quantity of each classification of material, MSG collected samples of each suspect ACM in accordance with EPA guidelines.

## Universal Wastes and Hazardous Material Survey Procedures

MSG identified and inventoried universal wastes and hazardous materials by a visual reconnaissance of the Site. Materials were identified, described, and quantified to the extent possible; however, no equipment or containers were opened and/or sampled as part of this survey.

A hazardous material, as defined in OSHA 29 CFR 1910.1200, is any item or chemical which is a "health hazard" or "physical hazard", including the following:

- Chemicals that are carcinogens, toxic or highly toxic agents, reproductive toxins, irritants, corrosives, hepatotoxins, nephrotoxins, neurotoxins, agents that act on the hematopoietic system, and agents that damage the lungs, skin, eyes, or mucous membranes;
- Chemicals that are combustible liquids, compressed gases, explosives, flammable liquids, flammable solids, organic peroxides, oxidizers, pyrophorics, unstable (reactive) or water-reactive;
- Chemicals that, in the course of normal handling, use or storage, may produce or release dusts, gases, fumes, vapors, mists or smoke which have any of the above characteristics; and
- Any item or chemical which, when being transported or moved, is a risk to public safety or an environmental hazard, and is regulated as such by one or more of the following:
  - DOT - Department of Transportation; Hazardous Materials Regulations (49 CFR 100-180);
  - IMO - International Maritime Organization; International Maritime Dangerous Goods (IMDG) Code;
  - IATA - International Air Transport Association; Dangerous Goods Regulations;
  - ICAO - International Civil Aviation Organization; Technical Instructions; and
  - AF - Air Force "INTERSERVICE" Manual, Preparing Hazmat for Military Air Shipments (AFMAN 24-204).

Hazardous materials may also include:

- Any item or chemical listed in the United States Environmental Protection Agency (USEPA) *List of Hazardous Substances and Reportable Quantities*, dated September 1992.
- Noticeable as inventory under the reporting requirements of the Hazardous Chemical Reporting (40 CFR Part 302).
- An environmental release under the reporting requirements of the Toxic Chemical Release Reporting: Community Right To Know (40 CFR Part 372) or under Part 201, Environmental Remediation of the Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Part 201) and Part 213, Leaking Underground Storage Tanks (Part 213).

These would include chemicals with special characteristics which, in the opinion of the manufacturer, can cause harm to people, plants, or animals when released by spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other receptacles).

Universal wastes are waste that comes primarily from consumer products containing mercury, lead, cadmium or other substances that are hazardous to human health and the environment. These items cannot be discarded in household trash nor disposed of in landfills but have less stringent handling and disposal requirements than hazardous waste streams. In Michigan, universal wastes are regulated by the MDEQ Office of Waste Management and Radiological Protection under Part 111 of Act 451 and the federal Resource Conservation and Recovery Act (RCRA) of 1976 under 40 CFR Part 273. Universal waste is also regulated by the US Department of Transportation (US DOT) under 49 CFR Parts 171 through 180. Most of the universal waste requirements overseen by the DEQ are addressed by R 299.9228 of Part 111 of 1994 P.A. 451, as amended and 40 CFR Part 273. These regulations are designed to encourage proper collection, recycling, treatment, or disposal of these wastes.

Examples of universal waste are mercury-containing equipment (e.g. thermostats, barometers, manometers, temperature and pressure gauges, and mercury switches), nickel-cadmium and spent lead-

acid batteries, lamps (e.g. incandescent, fluorescent, high intensity discharge, neon, mercury vapor, and high pressure sodium and metal halide), pesticides, polychlorinated biphenyl (PCB) containing transformers and light ballasts, stored chemical and/or petroleum products, etc. In Michigan, Part 111 also includes pharmaceutical and consumer electronics as additional types of universal wastes.

### **Other Regulated Materials**

This RMS also included identifying and inventorying other regulated materials which may pose physical or chemical concerns during demolition of the Site building(s) including chlorofluorocarbon (CFC) containing devices, tanks, vessels, equipment, and building materials that may contain or become contaminated with hazardous materials.

Specifically, CFC containing devices are regulated Under Title VI of the Clean Air Act (CAA). The Stratospheric Protection Division of the EPA manages programs protecting the stratospheric ozone layer. Title 40, Part 82 of the Code of Federal Regulations contains the EPA regulations protecting the ozone layer. The RMS survey of the premises identified and quantified any CFC containers and CFC containing equipment, which could include the following:

- Drinking fountains, air conditioners, refrigerators
- Air conditioners in control panels and other process equipment
- Water and air chillers
- Roof top and stand-alone air conditioners
- Cafeteria equipment: freezers, walk-in coolers/freezers
- CFC canisters and cylinders

In Michigan, underground storage tanks are regulated under the authority of Part 211, Underground Storage Tank Regulations, of Act 451 of 1994, as amended, and the Michigan Underground Storage Tank Rules (MUSTR). Therefore, this survey included whether any evidence of underground storage tanks and related piping and dispensers were present at the Site.

MSG also surveyed for the presence of equipment, other storage tanks, and materials that may contain or be contaminated by regulated chemicals. These include, but may not be comprehensive of:

- Above ground storage tanks
- Oil-containing equipment (hydraulic equipment, blowers, fans, motors, elevators, compressors, etc.)
- Fire brick
- Contaminated building materials (concrete, block walls, wood, plaster, etc.) with staining, odor or other signs of a hazardous chemical release

## **SURVEY RESULTS**

The following subsections include a discussion of the RMS results. Photographs of the residence are located in the *Attachment A, Photo Log*. The results of this report are valid as of the report date, subject to the limitations presented in *Attachment B, Limitations*.

### **ACM Survey Results**

MSG identified eleven (11) homogenous materials that were suspect as asbestos containing during the ACM survey. Twenty-five (25) bulk samples were collected from these suspect homogeneous materials and were submitted to FiberTec Laboratories, Inc. (Fibertec) for laboratory analysis of Bulk Materials by Polarized Light Microscopy using USEPA Method 600/R-93/116. Fibertec is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) to analyzed bulk samples for asbestos content. Of the aforementioned suspect homogenous materials identified during this ACM survey, laboratory analysis found one (1) homogenous material (samples 4-1, 4-2 and 4-3) contained greater than 1% asbestos. The EPA defines ACM as materials containing greater than 1% asbestos.

A point-count quantification procedure (PCQM) allows for lower detection limits than calibrated visual estimation (CVES), which is the quantification method widely used in asbestos analysis via Polarized Light Microscopy (PLM). If the asbestos content is found to contain less than 10% asbestos as determined by a method other than point counting by PLM, it can only be treated as non-ACM if verified to contain less than 1% by the PCQM. If not point-counted, the sample must be assumed to be greater than 1% and thus considered and treated as ACM. No Samples were point counted.

Suspect ACM sample locations are depicted on the attached figure. See *Table 1, Asbestos Sampling Results* for a listing of homogeneous materials identified by MSG during this survey. A copy of the analytical reports including chains of custody is attached in *Attachment C, Analytical Reports and Chains of Custody*.

### **Universal Wastes, Hazardous Materials, and Other Regulated Materials Survey Results**

Universal wastes, hazardous materials, and/or other regulated materials wastes were identified within the Site building. Quantities identified are provided in *Table 2, Universal Waste, Hazardous Materials, and Other Regulated Materials Inventory*.

## **CONCLUSIONS AND RECOMMENDATIONS**

### **Asbestos Containing Materials**

Of the eleven (11) homogenous materials collected as part of the ACM survey, one (1) homogenous material contained asbestos greater than 1% (samples 4-1, 4-2 and 4-3) with this one (1) homogenous material being classified as RACM. All materials containing ACM must be disposed of in a licensed landfill.

Prior to demolition, a notification of intent to demolish shall be made to the Michigan Department of Environmental Quality Air Quality Division (MDEQ-AQD) and Licensing and Regulatory Affairs (LARA), Asbestos Program. Notification, according to the procedure described by the NESHAP, Title 40 of the Code of Federal Regulations, Part 61, Subpart M, Notification, for renovation and demolition projects should be followed. A copy of this notification form is provided in *Attachment D, Notification of Intent to Renovate/Demolish*. This form shall be completed by the contractor who completes the demolition.

If additional suspect ACMs are discovered during demolition activities in areas that were determined during this survey to be structurally unsound and unsafe, inaccessible, concealed and/or in buried areas, shall be surveyed, tested, and abated if warranted. If suspect ACMs are determined to be RACM that would be disturbed during demolition activities, the RACM must be properly removed by a licensed asbestos abatement contractor.

Category I and Category II Non-Friable ACM may often be left in place during demolition activities if the ACM is not subjected to sanding, grinding, cutting, or abrading or has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during the course of demolition.

### **Universal Wastes, Hazardous Materials, and Other Regulated Materials**

The universal waste, hazardous materials, and other regulated materials (see Table 2) must be properly characterized (as necessary) and properly removed from the Site building for recycling and/or disposed of in accordance with Parts 111, 115, or 147 of Michigan Public Act 451 of 1994, as amended. If additional universal wastes, hazardous materials, and other regulated materials are discovered during demolition activities in areas that were determined during this survey to be structurally unsound and unsafe, inaccessible, concealed and/or in buried areas, these materials shall be characterized (as necessary) and properly removed in accordance with the above-mentioned regulations.

If you have any questions or concerns regarding the above information please contact us at 517-316-9232.

Sincerely,



Kory McKay  
Environmental Scientist  
Accreditation Number A47903



Charlie Bush  
Senior Project Manager  
Accreditation Number A34293

Attachments

FIGURE

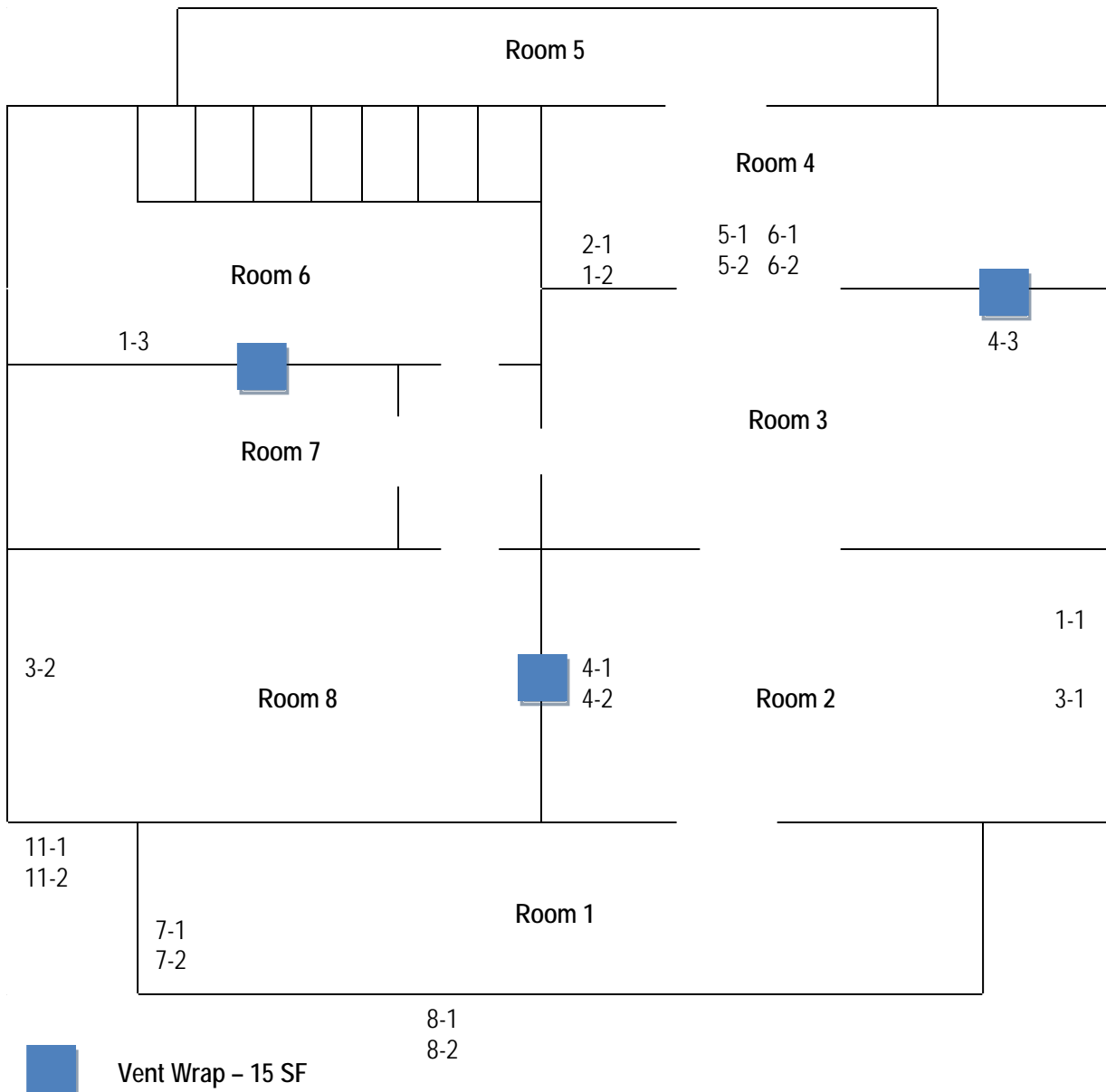


Address: 1514 Illinois Ave.

Date: July 18, 2017

Drawing not to scale

1<sup>st</sup> Floor



#-# = Asbestos Sample



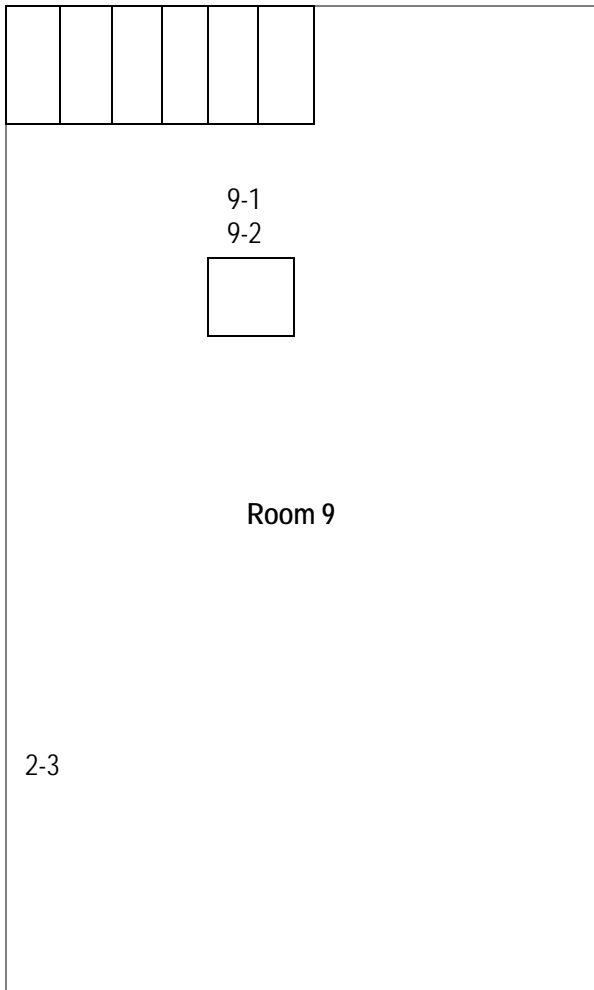
TECHNICAL SKILL.  
CREATIVE SPIRIT.

721 N. Capitol Avenue, Suite 2, Lansing, Michigan 48906 Tel: 517.316.9232 Fax: 517.316.9233 www.MannikSmithGroup.com

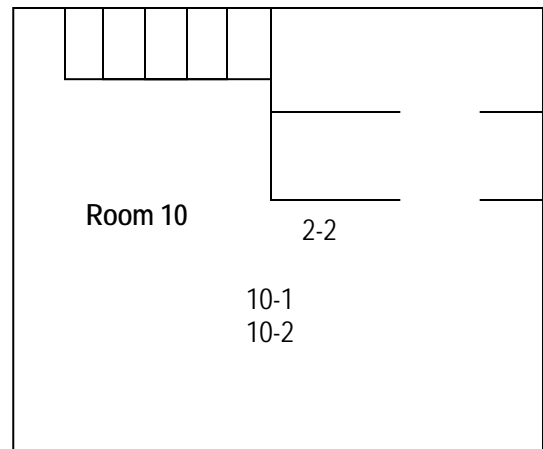
Address: 1514 Illinois Ave. Date: July 18, 2017

Drawing not to scale

2<sup>nd</sup> Floor



Basement



#-# = Asbestos Sample



TABLES



**Table 2**  
**Universal Waste, Hazardous Materials, and Other Regulated Materials Inventory**  
1514 Illinois Ave.  
Lansing, Ingham County, Michigan

<b>Universal Waste Inventory</b>		
<b>Location</b>	<b>Type of Waste</b>	<b>Approximate Quantity</b>
Whole House	Smoke Detector	5
Whole House	CFL Light Bulb	15

<b>Hazardous Materials Inventory</b>		
<b>Location</b>	<b>Type of Waste</b>	<b>Approximate Quantity</b>
-	-	-

<b>Other Regulated Materials Inventory</b>		
<b>Location</b>	<b>Type of Waste</b>	<b>Approximate Quantity</b>
-	-	-

**Table 1**  
**Asbestos Sampling Results**  
 1514 Illinois Ave.  
 Lansing, Ingham County, Michigan

Client		Ingham County Land Bank								
Survey Location		1514 Illinois Ave, Lansing, Ingham County, Michigan								
Survey Date		7/18/2017								
Functional Area	Floor	Sample ID	HM #	Homogeneous Material Group	Friable/Non Friable	Condition	EPA Classification	RACM	Asbestos	Quantity
Room 2	1	1-1	1	Plaster	Non Friable	Good	Miscellaneous	No	No	2280 SF
Room 4	1	1-2	1	Plaster	Non Friable	Good	Miscellaneous	No	No	
Room 6	1	1-3	1	Plaster	Non Friable	Good	Miscellaneous	No	No	
Room 4	1	2-1	2	Drywall	Non Friable	Good	Miscellaneous	No	No	3055 SF
Room 10	B	2-2	2	Drywall	Non Friable	Good	Miscellaneous	No	No	
Room 9	2	2-3	2	Drywall	Non Friable	Good	Miscellaneous	No	No	
Room 2	1	3-1	3	Window Glaze	Non Friable	Good	Miscellaneous	No	No	300 SF (20 windows)
Room 8	1	3-2	3	Window Glaze	Non Friable	Good	Miscellaneous	No	No	
Room 2	1	4-1	4	Vent Wrap	Friable	Good	TSI	Yes	Yes - 40% Chrysotile	15 SF
Room 2	1	4-2	4	Vent Wrap	Friable	Good	TSI	Yes	Yes - 40% Chrysotile	
Room 4	1	4-3	4	Vent Wrap	Friable	Good	TSI	Yes	Yes - 40% Chrysotile	

**Table 1**  
**Asbestos Sampling Results**  
 1514 Illinois Ave.  
 Lansing, Ingham County, Michigan

Client		Ingham County Land Bank									
Survey Location		1514 Illinois Ave, Lansing, Ingham County, Michigan									
Survey Date		7/18/2017									
Functional Area	Floor	Sample ID	HM #	Homogeneous Material Group	Friable/Non Friable	Condition	EPA Classification	RACM	Asbestos	Quantity	
Room 4	1	5-1	5	White & Black 12x12 Floor Tile	Non Friable	Good	Miscellaneous	No	No	90 SF	
Room 4	1	5-2	5	White & Black 12x12 Floor Tile	Non Friable	Good	Miscellaneous	No	No		
Room 4	1	6-1	6	Tan Linoleum	Non Friable	Good	Miscellaneous	No	No	90 SF	
Room 4	1	6-2	6	Tan Linoleum	Non Friable	Good	Miscellaneous	No	No		
Room 1	1	7-1	7	Faux Wood Linoleum	Non Friable	Good	Miscellaneous	No	No	150 SF	
Room 1	1	7-2	7	Faux Wood Linoleum	Non Friable	Good	Miscellaneous	No	No		
Roof	R	8-1	8	Roof Shingle	Non Friable	Good	Miscellaneous	No	No	900 SF	
Roof	R	8-2	8	Roof Shingle	Non Friable	Good	Miscellaneous	No	No		
Room 9	2	9-1	9	Chimney Concrete	Non Friable	Good	Miscellaneous	No	No	150 SF	
Room 9	2	9-2	9	Chimney Concrete	Non Friable	Good	Miscellaneous	No	No		
Basement	B	10-1	10	Basement Concrete	Non Friable	Good	Miscellaneous	No	No	660 SF	
Basement	B	10-2	10	Basement Concrete	Non Friable	Good	Miscellaneous	No	No		
Exterior	E	11-1	11	Siding Paper	Non Friable	Good	Miscellaneous	No	No	2000 SF	
Exterior	E	11-2	11	Siding Paper	Non Friable	Good	Miscellaneous	No	No		

ATTACHMENT A

PHOTO LOG





1514 Illinois Ave. Front of House



Side of House



Side of House



Back of House



Room 3 Vent with Vent Wrap



Drywall Ceiling with Mold in Basement



Electric Thermostat and Carbon Monoxide Detector in Hall



Two Flooring Layers in Room 4



Plaster Sample from Room 2

ATTACHMENT B

LIMITATIONS







## REGULATED MATERIALS SURVEY LIMITATIONS

The Mannik & Smith Group, Inc. (MSG) performed its services associated with this Regulated Materials Survey (RMS) in general accordance with guidelines set forth in the Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763, Occupational Safety and Health Administration (OHSA) 29 CFR 1926.62, and in conformance with the care and skill ordinarily used by other reputable environmental consulting firms practicing under similar conditions, at the same time, and in the same or similar locality. This RMS and related documentation are site-specific, which means they pertain to the conditions of the site surveyed.

Unless otherwise noted, MSG's RMS is limited to accessible areas. Areas determined to be not structurally sound, safely reached, limited by excessive accumulated obstructions, require specialized equipment to access, in operable windows, etc., are not included in this survey. There may be areas where regulated materials, such as suspected asbestos-containing materials (SACM) and lead containing paint cannot be viewed and/or tested. MSG shall not be responsible for identifying all SACM, lead containing paint, or other hazardous materials located in inaccessible locations, including but not limited to, above a plaster ceiling, behind a wall, embedded in concrete, buried, confined spaces, unsafe areas, or otherwise not readily identifiable.

Destructive sampling will only be conducted when permission has been granted by the owner. Destructive survey locations are limited to areas where hidden SACM, lead containing paint, or other hazardous materials is reasonably thought to be present and sampling can be conducted in a safe manner. If regulated materials are found during the course of demolition and/or renovation activities that are not listed in this report, the material should be assumed as asbestos-containing, lead containing, or hazardous until it can be sampled and analyzed at an accredited laboratory and safe work practices should always be used if those areas are to be disturbed.

MSG has prepared a logical assessment program to reduce the client's risk of discovering unknown regulated materials and/or hazardous substances. The presence of subsurface regulated materials and/or hazardous substances is based solely on surface observations and/or information provided by others. Descriptions of subsurface conditions provided in this report are not warranted to be complete or accurate. This risk may be reduced by more extensive exploration on the site, but even with additional exploration, it is not possible to completely eliminate the risk of discovering regulated materials and/or hazardous conditions. It cannot and should not be assumed that samples collected and conditions observed at the time of the RMS are representative of an area that has not been sampled and/or tested.

In preparing this report, MSG may have relied on information obtained from or provided by others. MSG makes no representation or warranty regarding the accuracy or completeness of this information gathered through outside sources or subcontracted services. No warranty, guarantee, or certification of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended by rendering these environmental consulting services or by furnishing this written report. Environmental conditions and regulations are subject to constant change and reinterpretation. One should not assume that any on-site conditions and/or regulatory statutes or rules will remain constant after MSG has completed the scope of work for this project. Furthermore, because the facts stated in this report are subject to professional interpretation, differing conclusions could be reached by other environmental professionals.

The report is intended to offer support to a building owner, construction manager, general contractor, abatement contractor, architect, and/or other parties authorized by the owner in generally locating asbestos-containing materials (ACM), lead containing paint, universal and hazardous wastes, and/or other regulated materials. This report does not have the required components to serve as an Asbestos Project Design document, Asbestos and/or Lead Containing Paint Abatement Work Plan, and/or a Health and Safety Plan. Therefore, this report should not be utilized as a project specification document. The results, findings, conclusions, and recommendations expressed in

this report are based only on conditions that were noted during this survey. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated. Quantities have been conservatively estimated and sampling locations have been described representatively; however, current site conditions should be field-verified by contractors bidding on and/or prior to abatement work.

ATTACHMENT C

ANALYTICAL REPORTS AND CHAINS OF CUSTODY



## BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 40472-1  
NVLAP Accreditation #101510-0

Client Name: Mannik & Smith  
Project Name: 1514 Illinois, I1440002, Ingham County Land Bank  
Summary: 25 Submitted Bulk Samples, 33 Sample Layers Analyzed.

Date Sampled: 7/18/2017 Client P.O. #: N/A  
Date Submitted: 7/18/2017 C.O.C. #: N/A  
Date Analyzed: 7/19/17-7/20/17

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos Containing Portion	Analyst
1	1	White tabular material, 1-1 plaster. Layer 1 of 3.	NAD	Non-fibrous material 100%	MB
1	1	Brown fibrous material, 1-1 plaster. Layer 2 of 3.	NAD	Cellulose fibers 90% Non-fibrous material 10%	MB
1	1	Gray cementitious material, 1-1 plaster. Layer 3 of 3.	NAD	Non-fibrous material 100%	MB
2	2	Gray cementitious material, 1-2 plaster.	NAD	Non-fibrous material 100%	MB
3	3	White tabular material, 1-3 plaster. Layer 1 of 2.	NAD	Non-fibrous material 100%	MB
3	3	Gray cementitious material, 1-3 plaster. Layer 2 of 2.	NAD	Non-fibrous material 100%	MB
4	4	Brown fibrous material, 2-1 drywall. Layer 1 of 2.	NAD	Cellulose fibers 95% Non-fibrous material 5%	MB

## BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 40472-1  
NVLAP Accreditation #101510-0

Client Name: Mannik & Smith  
Project Name: 1514 Illinois, I1440002, Ingham County Land Bank  
Summary: 25 Submitted Bulk Samples, 33 Sample Layers Analyzed.

Date Sampled: 7/18/2017  
Date Submitted: 7/18/2017  
Date Analyzed: 7/19/17-7/20/17

Client P.O. #: N/A  
C.O.C. #: N/A

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
4	4	White powdery material, 2-1 drywall. Layer 2 of 2.	NAD	Non-fibrous material 100%	MB
5	5	Brown fibrous material, 2-2 drywall. Layer 1 of 2.	NAD	Cellulose fibers 95% Non-fibrous material 5%	MB
5	5	White powdery material, 2-2 drywall. Layer 2 of 2.	NAD	Non-fibrous material 97% Cellulose fibers 3%	MB
6	6	Brown fibrous material, 2-3 drywall. Layer 1 of 2.	NAD	Cellulose fibers 95% Non-fibrous material 5%	MB
6	6	White powdery material, 2-3 drywall. Layer 2 of 2.	NAD	Non-fibrous material 95% Cellulose fibers 5%	MB
7	7	White tabular material, 3-1 window glaze.	NAD	Non-fibrous material 100%	MB
8	8	Tan tabular material, 3-8 window glaze.	NAD	Non-fibrous material 100%	MB

## BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 40472-1  
NVLAP Accreditation #101510-0

Client Name: Mannik & Smith  
Project Name: 1514 Illinois, I1440002, Ingham County Land Bank  
Summary: 25 Submitted Bulk Samples, 33 Sample Layers Analyzed.

Date Sampled: 7/18/2017 Client P.O. #: N/A  
Date Submitted: 7/18/2017 C.O.C. #: N/A  
Date Analyzed: 7/19/17-7/20/17

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
9	9	White fibrous material, 4-1 vent wrap.	Chrysotile 40%	Non-fibrous material 50% Cellulose fibers 10%	MB
10	10	White fibrous material, 4-2 vent wrap.	Chrysotile 40%	Non-fibrous material 55% Cellulose fibers 5%	MB
11	11	White fibrous material, 4-3 vent wrap.	Chrysotile 40%	Non-fibrous material 55% Cellulose fibers 5%	MB
12	12	Tan tabular material, 5-1 black and white 12" x 12" floor tile.	NAD	Non-fibrous material 100%	MB
13	13	Tan tabular material, 5-2 black and white 12" x 12" floor tile.	NAD	Non-fibrous material 100%	MB
14	14	White tabular material, 6-1 tan linoleum.	NAD	Non-fibrous material 100%	MB
15	15	White tabular material, 6-2 tan linoleum.	NAD	Non-fibrous material 100%	MB

## BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 40472-1  
NVLAP Accreditation #101510-0

Client Name: Mannik & Smith  
 Project Name: 1514 Illinois, I1440002, Ingham County Land Bank  
 Summary: 25 Submitted Bulk Samples, 33 Sample Layers Analyzed.

Date Sampled: 7/18/2017 Client P.O. #: N/A  
 Date Submitted: 7/18/2017 C.O.C. #: N/A  
 Date Analyzed: 7/19/17-7/20/17

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
16	16	Black tabular material, 7-1 faux wood linoleum.	NAD	Non-fibrous material 100%	MB
17	17	Black tabular material, 7-2 faux wood linoleum.	NAD	Non-fibrous material 100%	MB
18	18	Black asphaltic material, 8-1 roof shingle.	NAD	Non-fibrous material 85% Fibrous glass 15%	MB
19	19	Black asphaltic material, 8-2 roof shingle.	NAD	Non-fibrous material 80% Fibrous glass 20%	MB
24	24	Brown fibrous material, 11-1 siding paper. Layer 1 of 2.	NAD	Cellulose fibers 99% Non-fibrous material 1%	MB
24	24	Black asphaltic material, 11-1 siding paper. Layer 2 of 2.	NAD	Cellulose fibers 90% Non-fibrous material 10%	MB
25	25	Brown fibrous material, 11-2 siding paper. Layer 1 of 2.	NAD	Cellulose fibers 99% Non-fibrous material 1%	MB

**BULK SAMPLE ANALYTICAL REPORT**

Fibertec IHS Project # 40472-1  
 NVLAP Accreditation #101510-0

Client Name: Mannik & Smith  
 Project Name: 1514 Illinois, I1440002, Ingham County Land Bank  
 Summary: 25 Submitted Bulk Samples, 33 Sample Layers Analyzed.

Date Sampled: 7/18/2017 Client P.O. #: N/A  
 Date Submitted: 7/18/2017 C.O.C. #: N/A  
 Date Analyzed: 7/19/17-7/20/17


Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
25	25	Black asphaltic material, 11-2 siding paper. Layer 2 of 2.	NAD	Cellulose fibers 90% Non-fibrous material 10%	MB
20	20	Gray cementitious material, 9-1 chimney concrete.	NAD	Non-fibrous material 100%	MB
21	21	Gray cementitious material, 9-2 chimney concrete.	NAD	Non-fibrous material 100%	MB
22	22	Gray cementitious material, 10-1 basement concrete.	NAD	Non-fibrous material 100%	MB
23	23	Gray cementitious material, 10-2 basement concrete.	NAD	Non-fibrous material 100%	MB



Comments

Bulk samples are analyzed using the USEPA Test Method EPA/600/R-93/116. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. Fine fibers like those in floor tile may not be discernible by this method. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted. Test items were received in acceptable condition. Revision 4.0 dated 12/8/2010.

If no asbestos was/were detected in the sample/samples the acronym NAD (no asbestos detected) will appear in the Asbestos Type column of the report.

Approved Signatory:  \_\_\_\_\_  
Date: 7/21/17



Analytical Laboratory  
 1914 Holloway Drive  
 Holt, MI 48842  
 Phone: 517 699 0345  
 Fax: 517 699 0388  
 email: lab@fibertec.us

Industrial Hygiene Services, Inc.  
 1914 Holloway Drive  
 Holt, MI 48842  
 Phone: 517 699 0345  
 Fax: 517 699 0382  
 email: asbestos@fibertechs.com

Geoprobe  
 11766 E. Grand River Rd.  
 Brighton, MI 48116  
 Phone: 810 220 3300  
 Fax: 810 220 3311

40472-1

Client Name: Mannix & Smith  
 Contact Person: Charlie Bush  
 Project Name/ Number: 1514 Illinois / I144662  
 \* Ingham County Landbank  
 Email distribution list: cbush@mnnixsmithgroup.com  
 KMcKay@mnnixsmithgroup.com

Date	Time	Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PARAMETERS	Matrix Code	Deliverables
7-18-17	N/A	1	1-1 Plaster	X	1	Asbestos	S Soil A Air O Oil P Wipe	Level 2 Level 3 Level 4 EDD
		2	1-2 Plaster	X	1		GW Ground Water SW Surface Water WW Waste Water X Other: Specify	
		3	1-3 Plaster	X	1			
		4	2-1 Drywall	X	1			
		5	2-2 Drywall	X	1			
		6	2-3 Drywall	X	1			
		7	3-1 window glaze	X	1			
		8	3-2 window glaze	X	1			
		9	4-1 vent wrap	X	1			
		10	4-2 vent wrap	X	1			

Comments:

Sampled/Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY

1 bus. day \_\_\_\_\_ 2 bus. days \_\_\_\_\_ 3 bus. days \_\_\_\_\_ 4 bus. days \_\_\_\_\_

5-7 bus. days (standard) \_\_\_\_\_ Other (specify time/date requirement): 3-5 bus. days

Fibertec project number: \_\_\_\_\_  
 Temperature upon receipt at Lab: \_\_\_\_\_

Received By: [Signature] Date/Time: 7-18-17 13:16  
 Received By: [Signature] Date/Time: 7-18-17 13:18  
 Received By Laboratory: [Signature] Date/Time: 07/19/17 12:50pm

Please see back for terms and conditions



Analytical Laboratory  
 1914 Holloway Drive  
 Holt, MI 48842  
 Phone: 517 699 0345  
 Fax: 517 699 0388  
 email: lab@fibertec.us

Industrial Hygiene Services, Inc.  
 1914 Holloway Drive  
 Holt, MI 48842  
 Phone: 517 699 0345  
 Fax: 517 699 0382  
 email: asbestos@fibertechs.com

Geoprobe  
 11766 E. Grand River Rd.  
 Brighton, MI 48116  
 Phone: 810 220 3300  
 Fax: 810 220 3311

Chain of Custody # \_\_\_\_\_  
 PAGE \_\_\_\_\_ of \_\_\_\_\_

40472-1

Client Name: Mannik & Smith		Contact Person: Charise Bush		Project Name/Number: 1514 Illinois / I1446002		* Ingham County Land Bank		Email distribution list: Cbush@manniksmithgroup.com		Knckay@manniksmithgroup.com	
Quote#											
Purchase Order#											
Date	Time	Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PARAMETERS	Deliverables	Remarks:			
7-18-17	N/A	11	4-3 Vent wrap	X	1		Level 2	Asbestos			
		12	5-1 Black & white 12x12 FT	X	1		Level 3				
		13	5-2 Black & white 12x12 FT	X	1		Level 4				
		14	6-1 Tan linoleum	X	1		EDD				
		15	6-2 Tan linoleum	X	1						
		16	7-1 Faux wood linoleum	X	1						
		17	7-2 Faux wood linoleum	X	1						
		18	8-1 Roof Shingle	X	1						
		19	8-2 Roof Shingle	X	1						
		20	9-1 Chimney concrete	X	1						

Comments:

Sampled/Relinquished By:	Date/Time	Received By:
<i>[Signature]</i>	7-18-17 13:16	<i>[Signature]</i>
Relinquished By:	Date/Time	Received By:
<i>[Signature]</i>	7-18-17 13:18	<i>[Signature]</i> 7/18/17 13:20
Relinquished By:	Date/Time	Received By:
<i>[Signature]</i>	7/18/17 13:20	<i>[Signature]</i> 07/19/17 12:50pm

Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY

1 bus. day \_\_\_\_\_ 2 bus. days \_\_\_\_\_ 3 bus. days \_\_\_\_\_ 4 bus. days \_\_\_\_\_

5-7 bus. days (standard) 3-5 bus. days Other (specify time/date requirement):

Fibertec project number: \_\_\_\_\_  
 Temperature upon receipt at Lab: \_\_\_\_\_

LAB USE ONLY

Please see back for terms and conditions



**Analytical Laboratory**  
 1914 Holloway Drive  
 Holt, MI 48842  
 Phone: 517 699 0345  
 Fax: 517 699 0388  
 email: lab@fibertec.us

**Industrial Hygiene Services, Inc.**  
 1914 Holloway Drive  
 Holt, MI 48842  
 Phone: 517 699 0345  
 Fax: 517 699 0382  
 email: asbestos@fibertechs.com

**Geoprobe**  
 11766 E. Grand River Rd.  
 Brighton, MI 48116  
 Phone: 810 220 3300  
 Fax: 810 220 3311

40472-1

Client Name: Mannix & Smith  
 Contact Person: Charlie Bush  
 Project Name/ Number: 1514 Illinois / I1446002  
 \*Ingham County Land bank  
 Email distribution list: cbush@mannixsmithgroup.com  
Kmckay@mannixsmithgroup.com

Quote#		Purchase Order#		MATRIX (SEE RIGHT CORNER FOR CODE)		# OF CONTAINERS	PARAMETERS	MATRIX CODE	Deliverables	
Date	Time	Sample #	Client Sample Descriptor	S	A	O	P	Soil	Ground Water	Level 2
7-18-17	N/A	21	9-2 Chimney concrete	X						Level 3
		22	10-1 Basement concrete	X						Level 4
		23	10-2 Basement concrete	X						EDD
		24	11-1 Siding paper	X						
		25	11-2 Siding paper	X						
Remarks: HOLD SAMPLE										

Comments:

Sampled/Relinquished By: [Signature] Date/Time: 7-18-17 13:16 Received By: [Signature]

Relinquished By: [Signature] Date/Time: 7-18-17 13:18 Received By: [Signature]

Relinquished By: [Signature] Date/Time: 7/18/17 13:00 Received By: [Signature]

Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY

1 bus. day \_\_\_\_\_ 2 bus. days \_\_\_\_\_ 3 bus. days \_\_\_\_\_ 4 bus. days \_\_\_\_\_

5-7 bus. days (standard) 3-5 bus. days Other (specify time/date requirement):

Fibertec project number: \_\_\_\_\_ Temperature upon receipt at Lab: \_\_\_\_\_

LAB USE ONLY  
 07/19/17 12:50 pm

Please see back for terms and conditions

ATTACHMENT D

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



# NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
(MDEQ) AIR QUALITY DIVISION  
NESHAP, 40 CFR Part 61, Subpart M



MICHIGAN DEPARTMENT OF LICENSING AND  
REGULATORY AFFAIRS (LARA), ASBESTOS PROGRAM,  
P.A. 135 OF 1986, AS AMENDED, Section 220 (1-4) or (8)

### DEQ/LARA USE ONLY

Postmark Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Rec'd Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Emergency Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Valid No. \_\_\_\_\_

OK  Send Def Ltr. Date of Def Ltr. \_\_\_\_/\_\_\_\_/\_\_\_\_

FOLLOW UP \_\_\_\_/\_\_\_\_/\_\_\_\_ Spoke w/ \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Notification No. \_\_\_\_\_ Trans No. \_\_\_\_\_

### Calculate LARA Asbestos Project Fee: (1% Project Fee)

Total Project Cost: \_\_\_\_\_ x 0.01 = \_\_\_\_\_

Type of Contractor: \_\_\_\_\_ License No.: \_\_\_\_\_

Licensing Authority: \_\_\_\_\_

### 1. NOTIFICATION:

Date of Notification: \_\_\_\_\_

Date of Revision(s): \_\_\_\_\_

Notification Type:  Original  Revised  Canceled  Annual

#### Mark appropriate boxes: (both DEQ and LARA may apply):

#### DEQ (NESHAP) [260 ln. ft./160 sq. ft. or more is threshold]

Planned Renovation – 10 **working** days notice

Emergency Renovation

Scheduled Demolition – 10 **working** days notice

Intentional Burn – 10 **working** days notice

Ordered Demolition

#### LARA (MIOSHA) [Will not accept annual notifications]

Demo, Reno, Encap. (>10 ln. ft./15 sq. ft.) 10 **calendar** days notice

Emergency Renovation/Encapsulation

### 2. PROJECT SCHEDULE:

**START DATE**                      **END DATE**

\* Renovation                      \_\_\_\_\_                      \_\_\_\_\_

+Asb. Removal                      \_\_\_\_\_                      \_\_\_\_\_

+Demolition:                      \_\_\_\_\_                      \_\_\_\_\_

Encapsulation:                      \_\_\_\_\_                      \_\_\_\_\_

**Work Schedule:** Please indicate the anticipated days of the week and work hours for the purpose of scheduling a compliance inspection.

**Days of the Week**                      **Work Hours**

Asb. Removal:                      \_\_\_\_\_                      \_\_\_\_\_

Demolition:                      \_\_\_\_\_                      \_\_\_\_\_

Encapsulation:                      \_\_\_\_\_                      \_\_\_\_\_

\* Includes setup, build enclosure, asbestos removal, demobilizing, etc.

+Include **only** those dates you are conducting asbestos removal/demo.

Check here if this is a multi-phased project, attach a schedule showing the start/end date of each phase.

### 3. ABATEMENT CONTRACTOR: Internal Project #: \_\_\_\_\_

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

### 4. DEMOLITION CONTRACTOR: Internal Project #: \_\_\_\_\_

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

### 5. FACILITY OWNER: ("Facility" includes Bridges)

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

### 6. FACILITY DESCRIPTION:

Facility Name: \_\_\_\_\_

Location Address/Description: \_\_\_\_\_

\_\_\_\_\_ If Apt. # of units: \_\_\_\_\_

City/Twp. \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

County: \_\_\_\_\_ Nearest Crossroad: \_\_\_\_\_

Size: (sq. ft.) \_\_\_\_\_ No. of Floors: \_\_\_\_\_ Floor No.: \_\_\_\_\_

Age: \_\_\_\_\_ Present Use: \_\_\_\_\_ Prior Use: \_\_\_\_\_

Specific Location(s) in Facility: \_\_\_\_\_

### 7. DISPOSAL SITE:

Name: \_\_\_\_\_

Location Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

### 8. WASTE TRANSPORTER 1:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

### WASTE TRANSPORTER 2:

### 9. ORDERED DEMOLITIONS: (See NESHAP regulations for definition of "Ordered Demolition.") A copy of the official Order must accompany this notification.

Gov't Agency Ordering Demo: \_\_\_\_\_

Name/Title of Person Signing Order: \_\_\_\_\_

Date of Order: \_\_\_\_\_ Date Ordered to Begin: \_\_\_\_\_

### 10. IS ASBESTOS PRESENT? Yes No

To be removed prior to demolition

**Estimate the amount of asbestos:** Include RACM (Regulated Asbestos Containing Material) to be removed, encapsulated, etc. Also include the amount and type (floor tile, roofing, etc.) of non-friable Category I and/or Category II ACM that **will not** be removed prior to demolition. (**NOTE:** In a demolition, cementitious ACM **cannot** remain in a structure, as it is likely to become regulated in the demolition/handling process. It **must** be removed prior to demolition.)

RACM to be Removed

RACM to be Encapsulated

Non-friable ACM **not** removed prior to demo.

Category I

Category II

Units of Measure

				<input type="checkbox"/> Ln. Ft.	<input type="checkbox"/> Ln. M.
				<input type="checkbox"/> Sq. Ft.	<input type="checkbox"/> Sq. M.
				<input type="checkbox"/> Cu. Ft.*	<input type="checkbox"/> Cu. M.*

\*Volume (cubic ft./meters) should be used only if unable to measure by linear/square measure (example: asbestos has fallen off of surface).

(continued on reverse side)

**NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)**

**11. PROJECT DESCRIPTION:** Complete **A) for Renovation** (asbestos removal/encapsulation) and/or **B) for Demolition**:

**A) RENOVATION:** Mark all surfaces/types of RACM to be removed:

- Piping     Fittings     Boiler(s)     Tanks(s)  
 Beam(s)     Duct(s)     Tunnel(s)     Ceiling Tile(s)  
 Mag Block     Other (describe) \_\_\_\_\_

**Encapsulation (for LARA):** Mark surfaces/types to be encapsulated:

- Piping     Fittings     Boiler(s)     Tank(s)  
 Beam(s)     Duct(s)     Tunnel(s)     Ceiling Tile(s)  
 Other (describe) \_\_\_\_\_

**Method of removal:** Describe how the asbestos will be removed from the surface (example: glove bag, scrape with hand tools, cut in sections and carefully lower, etc.): \_\_\_\_\_  
 \_\_\_\_\_

**B) DEMOLITION:** Describe the method of demolition of facility, bridge, etc., and indicate if complete or partial. If partial, describe which part of facility bridge, etc., will be demolished: \_\_\_\_\_  
 \_\_\_\_\_

**12. ENGINEERING CONTROLS:** Describe work practices and engineering controls used to prevent visible emissions before, during, and after removal, and until proper disposal: \_\_\_\_\_  
 \_\_\_\_\_

**13. UNEXPECTED ASBESTOS:** Describe the steps you intend to follow in the event that unexpected RACM is found or previously non-friable asbestos becomes friable (crumbled, pulverized, reduced to powder, etc.) and therefore regulated: \_\_\_\_\_  
 \_\_\_\_\_

**14. PROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS:** **A)** Indicate how you determined whether or not asbestos is in the facility. If analytical sampling was used, describe method of analysis. (The determination of the presence or absence of asbestos must be made prior to submitting a renovation/demolition notification.): \_\_\_\_\_  
 \_\_\_\_\_

**B)** Name, address, and phone number of company performing asbestos survey: \_\_\_\_\_

**C)** Name, accreditation number of inspector, and date of inspection: \_\_\_\_\_

**15. EMERGENCY RENOVATIONS:** Date/time of emergency: \_\_\_\_\_ Describe the sudden, unexpected event: \_\_\_\_\_  
 \_\_\_\_\_

Explain how the event caused unsafe conditions, and/or would cause equipment damage and/or an unreasonable financial burden: \_\_\_\_\_  
 \_\_\_\_\_

**16.** I certify that an individual trained in the provisions of 40 CFR Part 61, Subpart M, will be on-site during the renovation and during demolition involving RACM above the threshold and/or during an ordered demolition. Evidence that this person has completed the required training will be available for inspection at the renovation or demolition site.

\_\_\_\_\_  
*Signature of Owner or Abatement Contractor      Date*

\_\_\_\_\_  
*Signature of Owner or Demolition Contractor      Date*

**17. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA)**  
**Per Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air monitoring is required for any asbestos abatement project involving 10 linear feet/15 square feet or more of friable material which is performed within a negative pressure enclosure. I (the building owner or lessee) have been advised by the contractor of my responsibility under Act 135 to have clearance air monitoring performed on this project.**

\_\_\_\_\_  
*Signature of Building Owner or Lessee      Date*

\_\_\_\_\_  
*Signature of Asbestos Abatement Contractor Representative      Date*

**NOTE:** It is not mandatory that a signed copy be sent to LARA unless requested. For affected projects, this section of the notification form must be completed, signed, and made part of your records before the project begins.

**18. I certify that the above information is correct:**

\_\_\_\_\_  
*Printed Name of Owner/Operator      Date*

\_\_\_\_\_  
*Signature of Owner/Operator      Date*

**MAILING ADDRESSES/PHONE NUMBERS:** (See Item 1 to determine which agency requirements/regulations are applicable to your project.)

For **Public Act 135 of 1986, as amended, Section 220 (1-4) or (8)**, mail to address below. For more info visit:  
<http://www.michigan.gov/asbestos>

MIOSHA Asbestos Program  
 LARA, CSHD  
 P.O. Box 30671  
 Lansing, MI 48909-8171

517.636.4551 (office), 517.322.1713 (fax)

For **NESHAP Demolitions/Renovations, 40 CFR, Part 61, Subpart M**, please use the e-submittal process. For more information visit <http://www.michigan.gov/air>, under Air Links click on Asbestos NESHAP Program.

NESHAP Asbestos Program  
 DEQ, AQD  
 P.O. Box 30260  
 Lansing, MI 48909-7760

517.284.6777 (Office)