PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank 3024 Turner Street

Lansing MI 48906

Lansing, Wi 40000		
Parcel:	33-01-01-22-205-041	
House No:	1017 S Holmes St, Lansing, MI 48912	
Date Inspected:	12/18/2017	
Inspected By:	Heather Davis	
Inspectors State Card #	A-48908	

Building Information

No. Stories	1	Garage	Detached
Square Footage	912 SF	Garage Square Footage	378 SF
Basement Square Footage	792 SF	Garage Siding	Wood
Siding	Vinyl	Garage Color	Light Blue
Color	Light Blue	Garage Shingles	Asphalt
Roof Shingles	Asphalt	Electric (Gone)	Connected
Asbestos present	No	Gas (Gone)	Disconnected
Inaccessible areas			





38900 West Huron River Drive, Romulus, MI 48174 PHONE: (734) 955-6600 FAX: (734) 955-6604 WEBSITE: www.2etc.com

Pre-Demolition Environmental Inspection Summary Report

TABLE 1		
Date Inspected:	12/18/2017	
House No.	1017 S Holmes St, Lansing, MI 48912	
Parcel:	33-01-01-22-205-041	

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Tank	1	Room 9
Battery	1	Room 9
Thermostats	1	Room 1

TIRE(s) REPORT

Material

Quantity & Units

Location

None observed above household quantities

Parcel:

House No.

Date Inspected:

33-01-01-22-205-041

1017 S Holmes St, Lansing, MI 48912

12/18/2017

TABLE 2 SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Plaster, grey with skim	Throughout	2400 SF	No
2	NF	Drywall, white	Room 2, 6	300 SF	No
3	F	Blown-in-insulation, brown	Room 8, Attic	832 SF	No
4	NF	Linoleum, cream	Room 1, 4, 6	477 SF	No
5	NF	Cinderblock, grey	Room 9, Exterior (house)	1040 SF	No
6	NF	Mortar, grey	Room 9, Exterior (house)	700 SF	No
7	NF	Concrete floor, grey	Room 9	792 SF	No
8	NF	Stack cement, grey	Room 9	60 SF	No
9	NF	House wrap, brown	Exterior (house)	2480 SF	No
10	NF	Electrical panel backing, brown	Room 9	1 SF	No
11	NF	Shingle, black	Exterior (house)	2600 SF	No
12	NF	Shingle, black	Exterior (garage)	400 SF	No
13	NF	Cement, grey	Room 10, 11	378 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 <u>estimates only</u>. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing





Ingham County Land Bank 200413







> Ingham County Land Bank 200413

 \bigwedge Sample Location





> Ingham County Land Bank 200413



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Sample Location







> Ingham County Land Bank 200413



Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel:	33-01-01-22-205-041
House No.	1017 S Holmes St, Lansing, MI 48912
Date Inspected:	12/18/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-01-22-205-041
House No.	1017 S Holmes St, Lansing, MI 48912
Date Inspected:	12/18/2017



Garage

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-22-205-041
House No.	1017 S Holmes St, Lansing, MI 48912
Date Inspected:	12/18/2017



Hot Water Tank



Battery



Thermostats

Attachment:

Laboratory Analytical Results



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

Project Location :

1017 S Holmes St, Lansing, MI

Attention :

Client Project : N/A

ETC Job : 200413

Report Date : 12/20/2017

Login #	Sample ID	Work Requested	Completed
640712	01A	Asbestos Analysis	12/20/2017
640713	01B	Asbestos Analysis	12/20/2017
640714	01C	Asbestos Analysis	12/20/2017
640715	01D	Asbestos Analysis	12/20/2017
640716	01E	Asbestos Analysis	12/20/2017
640717	02A	Asbestos Analysis	12/20/2017
640718	02B	Asbestos Analysis	12/20/2017
640719	03A	Asbestos Analysis	12/20/2017
640720	03B	Asbestos Analysis	12/20/2017
640721	04A	Asbestos Analysis	12/20/2017
640722	04B	Asbestos Analysis	12/20/2017
640723	05A	Asbestos Analysis	12/20/2017
640724	05B	Asbestos Analysis	12/20/2017
640725	06A	Asbestos Analysis	12/20/2017
640726	06B	Asbestos Analysis	12/20/2017
640727	07A	Asbestos Analysis	12/20/2017
640728	07B	Asbestos Analysis	12/20/2017
640729	08A	Asbestos Analysis	12/20/2017
640730	08B	Asbestos Analysis	12/20/2017
640731	09A	Asbestos Analysis	12/20/2017

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Page 1 of 7

ETC Job: 200413

Report Date : 12/20/2017

Login #	Sample ID	Work Requested	Completed
640732	09B	Asbestos Analysis	12/20/2017
640733	10A	Asbestos Analysis	12/20/2017
640734	10B	Asbestos Analysis	12/20/2017
640735	11A	Asbestos Analysis	12/20/2017
640736	11B	Asbestos Analysis	12/20/2017
640737	12A	Asbestos Analysis	12/20/2017
640738	12B	Asbestos Analysis	12/20/2017
640739	13A	Asbestos Analysis	12/20/2017
640740	13B	Asbestos Analysis	12/20/2017

Reviewed by:

Samuel

Quality Assurance Coordinator

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	200413
To :	Environmental Testing And Consulting Inc.	Client Project :	N/A
	38900 Huron River Drive	Date Collected :	12/18/2017
	Romulus,MI 48174	Date Received :	12/19/2017
Location :		Date Analyzed :	12/20/2017
	1017 S Holmes St, Lansing, MI	2	

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 640712 Grey Plaster 2% Cellulose 98% Other None Detected 01A Non-Fibrous RM1 S Wall Center Homogenous Layer-1 Analyst: Scott Larabell 640712 White Skim 2% Cellulose 98% Other None Detected 01A Non-Fibrous RM1 S Wall Center Homogenous Layer-2 Analyst: Scott Larabell 640713 Grey Plaster 2% Cellulose 98% Other None Detected 01B Non-Fibrous RM3 N Wall Center Homogenous Layer-1 Analyst: Scott Larabell 640713 White Skim 3% Cellulose 97% Other None Detected 01B Non-Fibrous RM3 N Wall Center Homogenous Layer-2 Analyst: Scott Larabell 640714 Grey Plaster 2% Cellulose 98% Other None Detected 01C Non-Fibrous RM3 E Wall Center Homogenous Layer-1 Analyst: Scott Larabell 640714 White Skim 2% Cellulose 98% Other None Detected 01C Non-Fibrous RM3 E Wall Center Homogenous Layer-2 Analyst: Scott Larabell 640715 Grey Plaster 2% Cellulose 98% Other None Detected 01D Non-Fibrous RM5 E Wall Center Homogenous Layer-1 Analyst: Scott Larabell 640715 White Skim 3% Cellulose 97% Other None Detected 01D Non-Fibrous RM5 E Wall Center Homogenous Layer-2 Analyst: Scott Larabell

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	200413
То :	Environmental Testing And Consulting Inc.	Client Project :	N/A
	38900 Huron River Drive	Date Collected :	12/18/2017
	Romulus,MI 48174	Date Received :	12/19/2017
Location :		Date Analyzed :	12/20/2017
	1017 S Holmes St, Lansing, MI	•	

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 640716 Grey Plaster 2% Cellulose 98% Other None Detected 01F Non-Fibrous RM5 S Wall Center Homogenous Layer-1 Analyst: Scott Larabell 640716 White Skim 2% Cellulose 98% Other None Detected 01E Non-Fibrous RM5 S Wall Center Homogenous Layer-2 Analyst: Scott Larabell 640717 White Drywall 3% Cellulose 97% Other None Detected 02A Non-Fibrous RM6 Ceiling Center Homogenous Analyst: Scott Larabell 640718 White Drywall 3% Cellulose 97% Other None Detected 02B Non-Fibrous RM2 N Wall Homogenous Analyst: Scott Larabell 640719 Brown Blown-In Insulation 75% Cellulose 25% Other None Detected 03A Fibrous Attic Center Floor Homogenous Analyst: Scott Larabell 640720 Brown Blown-In Insulation 80% Cellulose 20% Other None Detected 03B Fibrous RM8 F Wall Homogenous Analyst: Scott Larabell 640721 Cream Linoleum 10% Cellulose 90% Other None Detected 04A Non-Fibrous RM6 Center Floor Homogenous Analyst: Scott Larabell

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Polarized Light Microscopy Asbestos Analysis Report

_		ETC Job :	200413
To :	Environmental Testing And Consulting Inc.	Client Project :	N/A
	38900 Huron River Drive	Date Collected :	12/18/2017
	Romulus,MI 48174	Date Received :	12/19/2017
Location :		Date Analyzed :	12/20/2017
	1017 S Holmes St, Lansing, MI	-	

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 640722 Cream Linoleum 12% Cellulose 88% Other None Detected 04B Non-Fibrous RM1 SE Floor Homogenous Analyst: Scott Larabell 640723 Grey Cinderblock 2% Cellulose 98% Other None Detected 05A Non-Fibrous RM9 S Wall Homogenous Analyst: Scott Larabell 640724 Grey Cinderblock 2% Cellulose 98% Other None Detected 05B Non-Fibrous RM9 W Wall Homogenous Analyst: Scott Larabell 640725 Grey Mortar 2% Cellulose 98% Other None Detected 06A Non-Fibrous RM9 S Wall Homogenous Analyst: Scott Larabell 640726 Grey Mortar 2% Cellulose 98% Other None Detected 06B Non-Fibrous RM9 W Wall Homogenous Analyst: Scott Larabell 640727 Grey Concrete Floor 2% Cellulose 98% Other None Detected 07A Non-Fibrous S Floor RM9 Homogenous Analyst: Scott Larabell 640728 Grey Concrete Floor 3% Cellulose 97% Other None Detected 07B Non-Fibrous N Floor RM9 Homogenous Analyst: Scott Larabell

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Polarized Light Microscopy Asbestos Analysis Report

_		ETC Job :	200413
To :	Environmental Testing And Consulting Inc.	Client Project :	N/A
	38900 Huron River Drive	Date Collected :	12/18/2017
	Romulus,MI 48174	Date Received :	12/19/2017
Location :		Date Analyzed :	12/20/2017
	1017 S Holmes St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 640729 Grey Stack Cement 2% Cellulose 98% Other None Detected 08A Non-Fibrous **RM9** Center Chimney Homogenous Analyst: Scott Larabell 640730 Grey Stack Cement 2% Cellulose 98% Other None Detected 08B Non-Fibrous **RM9** Center Chimney Homogenous Analyst: Scott Larabell 640731 Brown House Wrap 80% Cellulose 20% Other None Detected 09A Fibrous N Wall Ext House Homogenous Analyst: Scott Larabell 640732 Brown House Wrap 75% Cellulose 25% Other None Detected 09B Fibrous W Wall Ext House Homogenous Analyst: Scott Larabell 640733 Brown **Electrical Panel Backing** 80% Cellulose 20% Other None Detected 10A Fibrous S Wall Electrical Panel RM9 Homogenous Analyst: Scott Larabell 640734 Brown Electrical Panel Backing 80% Cellulose 20% Other None Detected 10B Fibrous S Wall Electrical Panel RM9 Homogenous Analyst: Scott Larabell 640735 Black Shingles 3% Cellulose 97% Other None Detected 11A Non-Fibrous E Roof Ext House Homogenous Analyst: Scott Larabell

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	200413
To :	Environmental Testing And Consulting Inc.	Client Project :	N/A
	38900 Huron River Drive	Date Collected :	12/18/2017
	Romulus,MI 48174	Date Received :	12/19/2017
Location :		Date Analyzed :	12/20/2017
	1017 S Holmes St, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640736 11B N Roof Ext House Analyst: Scott Larabell	Shingles	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640737 12A W Roof Ext Garage Analyst: Scott Larabell	Shingles	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640738 12B S Roof Ext Garage Analyst: Scott Larabell	Shingles	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640739 13A N Floor RM10 Analyst: Scott Larabell	Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640740 13B S Floor RM 10 Analyst: Scott Larabell	Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Lab Supervisor/Other Signatory

Analyst: Scott Larabell

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

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ENVIRONMENTAL TESTING LABORATORIES, INC 38900 HURON RIVER DRIVE ROMULUS, MICHIGAN 48174

(734) 955-6600 FAX: (734) 992-2261

1

Bulk Asbestos Chain of Custody

www.2etl.com		ETL Project #: 200413	
ETC	Contact:	Project Location/name:	
	Phone: (734) 955-6600 1017 S Holmes		
721 N. Capitol Ave. Suite 3,	Fax: (734) 955-6604	Lansing, MI	
Lansing, MI 48906	E-mail: results @2etc.com	Client Project #:	
vide Results:	□ Fax □ Verbal □ Other	Date Sampled: 12/18/17-	
	WWW.2etl.com ETC 721 N. Capitol Ave. Suite 3, Lansing, MI 48906 Vide Results: □ Email	Contact: Phone: (734) 955-6600 721 N. Capitol Ave. Suite 3, Lansing, MI 48906 Fax: (734) 955-6604 Vide Results: E-mail results@2etc.com	

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

	PLM Instructions Check all that apply) 3 days S
A PLM EPA600/R-93/116, 1993 (Standard method)	Ø⊂Stop at 1st Positive -
D Point Counting: 400 Points*	Clearly mark Homogenous Group
D PLM Non-Building Material (Dust, Wipe, Tape)	Soil or Vermiculite Analysis *

Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	DIA-E		
	OZA-B		
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	-12		
	13A-B		
			ter and the second s

		1
[Date	Time
Relinquished (Name/Organization):	- 12 18 17	5.'30 ant/om
Received (Name/ETL): Brithany Vally	112/19/17	am/nm
Stereoscopical Analysis (Name/ETL):	12-20-17	am/om
Sample Login (Name/ETL): Brittoeny Walls, 1977	12/19/17	am/pm
Analysis (Name/ETL):	1d-20-17	am/pm
QA/QC Review (Name/ETL):	12/20/12	am/pm
Special Instructions:	Remarks	······
prease print count 35, or less		
if positive!		Page of

	K	SDestos	Materia Surf	al Sampling Summary Sheet acing materials		Revision d	ite 5/7/201
Job #:	514002	Building	0	7 5 4 1 5			
Material		Erichte (m.		Chulloli D	Date: 12 18	21/2	
ло.	Material Description	rnable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg	Quantity	Picture #
	Material: Plaster		¢	CHO CHO CHO	(Flease List all Kooms)		
10	w Skin	42	000	Rong North wall center 110 Rong Rorth wall center 71 Rong Cast wall center 71	thoughout	-	e
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		11					
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		-					

1000 - <5000 = 5 samples

- ------

<1000 SF = 3 samples

Revision date 5/7/2015

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Picture # 50 2 M 9 2 --5 5 5 475 3000 Quantity 208ht 1040 3- 600 20st 724 72 156 200 y しち rt 8 20 throughout bldg (Please List all Rooms) Centry in the 6 Ron 9 627 Material Located cura 8 mg 2200M 5 Rt r Rug 6 house J 9 a soor and 2n 2 tat wour electrial over Rung 133 Rung Date: 12 Re. 5 ext Ert ext house 736 CULO 218 90 35 0 130 rel 50 he 0 south will electrical power and 200 3 20 120 12C 0 Louse Certes ext house Allow Wall ext house cuter floor floor ceter chime ruth wal center chimney Rug FLOOL Rang 9 west war South wall ext Sample Location See Sit Ceiling CSA Holnes OSB Certer realt rhear Cast not h flour west wall north well South wall horthroof Pust roof 5 3 93 9 SHE dry 6 2 Rus 8 Rul ave 5 Save Prog 5 5 Bur Pur 9 S 3 5 t 0 Sample Letter --4 4 -9 9 4 9 7 -A -A 9 40 4 A 4 4 _ Building: Friable (F) / Non-Friable SN NF 4 2 3 NP 子 3 U (INE) 2 2 bacuing Ins FLOOLT tranas Cerap Cinderblock Land Material Description Blown - In -indew? Mortor brown 520 Crean 3 Shi Re Smort Concele House mang Material: Ury Wall Shingles 226 Material: Clectrical 12002 226 gress blach Stack Material: Material: Material: Description Material: Description Description Material: Description Description Description Description Description Material: Material: Description Material: Description 5 to 20 2 Job #: Material 50 9 P 5 10. 0 D C 12 5

2 samples

Revision date 5/7/2015

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Picture # Me 22 Quantity 378 400 Date: 7 2 1,1 8/17 Material Located throughout bidg (Please List all Rooms) Javase C1 10 5xt SIT ex gurise BS 2 R E ext garase Rn 10 0 Sample Location S Floor Holmes Joal iest rest north Plean South Atios 5 Building: 1017 Sample 4 9 7 --4 4 00 4 -7 8 4 9 A 9 4 q 4 00 Friable (F) / Non-Friable (NF) NY SF Cerert Material: Cotor is ffeed Material Description gress P Material: SMINGLE blach 200413 Description Description Material: Material: Description Description Material: Description Description Material: Description Material: Material: Description Description Description Material: Material: 2 Job #: Material 2 10.

2 samples

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

Laboratory Analysis / Results

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

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

SIGNATURE

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

Prepared by:

Heather Davis, Michigan Certified Asbestos Inspector (s) Michigan Accreditation Number (s) A-48908

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For: Ingham County Land Bank

3024 Turner Street

Lansing, MI 48906

Parcel:	33-01-01-22-255-061
House No:	1223 S Holmes St, Lansing, MI 48912
Date Inspected:	12/11/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information

No. Stories	1	Garage	No Garage
Square Footage	1458 SF	Garage Square Footage	NA
Basement Square Footage	1458 SF	Garage Siding	NA
Siding	Wood	Garage Color	NA
Color	White	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			





38900 West Huron River Drive, Romulus, MI 48174 PHONE: (734) 955-6600 FAX: (734) 955-6604 WEBSITE: www.2etc.com

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-22-255-061			
House No.	1223 S Holmes St, Lansing, MI 48912			
Date Inspected:	12/11/2017			
TABLE 1				
HAZARDOUS MATERIALS				
Material Description	Quantity & Units	Location		
Smoke Detectors	1	Room 7		

TIRE(s) REPORT

Material	Quantity & Units	Location	
Tires	9	Room 9, 11	

Parcel:

33-01-01-22-255-061

House No.

Date Inspected:

1223 S Holmes St, Lansing, MI 48912

12/11/2017

TABLE 2 SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Wall Skim, white	Throughout	3000 SF	YES
2	F	Plaster, grey	Throughout	3360 SF	No
3	F	Drywall, white	Room 9	528 SF	No
4	NF	12x12 Tile, tan/marble	Room 8	9 SF	No
5	NF	9x9 Tile, tan	Room 4	9 SF	No
6	NF	Floor board, black	Room 4	9 SF	No
7	NF	Linoleum, wood grain	Room 4	9 SF	No
8	NF	Linoleum, grey	Room 9	252 SF	No
9	NF	12x12 Tile, white	Room 8	144 SF	No
10	NF	12x12 Tile, tan	Room 8	144 SF	No
11	NF	Flooring board, black	Room 8	144 SF	No
12	F	Tape, tan	Throughout	24 SF	No
13	F	Mud, grey	Throughout	24 SF	No
14	NF	Linoleum, grey/white	Room 3	144 SF	No
15	NF	Cement floor, grey	Room 11-13	1296 SF	No
16	NF	Cinderblock, grey	Room 11-13	1458 SF	No
17	NF	Mortar, grey	Room 11-13	1458 SF	No
18	F	Blown-in-insulation, grey	Room 10	1458 SF	No
19	F	House wrap, brown	Exterior	1458 SF	No
20	F	Fiberboard, black	Exterior	1458 SF	No
21	NF	Asphalt shingle, black	Exterior	1458 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.

Parcel:

33-01-01-22-255-061

House No.

Date Inspected:

1223 S Holmes St, Lansing, MI 48912

12/11/2017

TABLE 2 SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
22	NF	Window glaze, yellow/white	Exterior	13 windows	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



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

> Ingham County Land Bank 199859







> Ingham County Land Bank 199859

A Sample Location





> Ingham County Land Bank 199859



Sample Location

Attachment:

Site Photographs
Representative Pictures of House/Property

Parcel:	33-01-01-22-255-061
House No.	1223 S Holmes St, Lansing, MI 48912
Date Inspected:	12/11/2017





Front of house/property

Side #1 of house/property





Representative Pictures of Hazardous Materials

Parcel:	33-01-01-22-255-061
House No.	1223 S Holmes St, Lansing, MI 48912
Date Inspected:	12/11/2017





Smoke Detectors

Tires

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-22-255-061
House No.	1223 S Holmes St, Lansing, MI 48912
Date Inspected:	12/11/2017



Wall Skim

Attachment:

Laboratory Analytical Results

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

REVISED REPORT



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

Project Location :

1223 S Holmes St, Lansing, MI

Attention :

Client Project : 33-01-01-22-255-061

ETC Job: 199859

Report Date: 1/2/2018

Login #	Sample ID	Work Requested	Completed
638701	01A	Asbestos Analysis	12/15/2017
638702	01B	Asbestos Analysis	12/15/2017
638703	01C	Asbestos Analysis	12/15/2017
638704	01D	Asbestos Analysis	12/15/2017
638705	01E	Asbestos Analysis	12/15/2017
638706	02A	Asbestos Analysis	12/15/2017
638707	02B	Asbestos Analysis	12/15/2017
638708	03A	Asbestos Analysis	12/15/2017
638709	03B	Asbestos Analysis	12/15/2017
638710	04A	Asbestos Analysis	12/15/2017
638711	04B	Asbestos Analysis	12/15/2017
638712	05A	Asbestos Analysis	12/15/2017
638713	05B	Asbestos Analysis	12/15/2017
638714	06A	Asbestos Analysis	12/15/2017
638715	06B	Asbestos Analysis	12/15/2017
638716	07A	Asbestos Analysis	12/15/2017
638717	07B	Asbestos Analysis	12/15/2017
638718	08A	Asbestos Analysis	12/15/2017
638719	08B	Asbestos Analysis	12/15/2017
638720	09A	Asbestos Analysis	12/15/2017

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ETC Job: 199859

Report Date: 1/2/2018

Login #	Sample ID	Work Requested	Completed
638721	09B	Asbestos Analysis	12/15/2017
638722	10A	Asbestos Analysis	12/15/2017
638723	10B	Asbestos Analysis	12/15/2017
638724	11A	Asbestos Analysis	12/15/2017
638725	11B	Asbestos Analysis	12/15/2017
638726	12A	Asbestos Analysis	12/15/2017
638727	12B	Asbestos Analysis	12/15/2017
638728	13A	Asbestos Analysis	12/15/2017
638729	13B	Asbestos Analysis	12/15/2017
638730	14A	Asbestos Analysis	12/15/2017
638731	14B	Asbestos Analysis	12/15/2017
638732	15A	Asbestos Analysis	12/15/2017
638733	15B	Asbestos Analysis	12/15/2017
638734	16A	Asbestos Analysis	12/15/2017
638735	16B	Asbestos Analysis	12/15/2017
638736	17A	Asbestos Analysis	12/15/2017
638737	17B	Asbestos Analysis	12/15/2017
638738	18A	Asbestos Analysis	12/15/2017
638739	18B	Asbestos Analysis	12/15/2017
638740	19A	Asbestos Analysis	12/15/2017
638741	19B	Asbestos Analysis	12/15/2017
638742	20A	Asbestos Analysis	12/15/2017
638743	20B	Asbestos Analysis	12/15/2017
638744	21A	Asbestos Analysis	12/15/2017
638745	21B	Asbestos Analysis	12/15/2017
638746	22A	Asbestos Analysis	12/15/2017
638747	22B	Asbestos Analysis	12/15/2017

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ETC Job: 199859

Report Date: 1/2/2018

Login #	Sample ID	Work Requested	Completed
644354	02C	Asbestos Analysis	12/15/2017
644355	02D	Asbestos Analysis	01/02/2018
644356	02E	Asbestos Analysis	01/02/2018

Reviewed by:

Darmywall

Quality Assurance Coordinator

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Polarized Light Microscopy Asbestos Analysis Report

_		ETC Job :	199859
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-255-061
	38900 Huron River Drive	Date Collected :	12/11/2017
	Romulus,MI 48174	Date Received :	12/13/2017
Location :		Date Analyzed :	12/15/2017
	1223 S Holmes St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 638701 White Wall Skim 2% Cellulose 90% Other 8% Chrysotile 01A Non-Fibrous Room 1 N Side Wall Homogenous Analyst: Dave Cousino 638702 Not Analyzed 01B Room 2 N Side Wall Analyst: Dave Cousino 638703 Not Analyzed 01C Room 8 W Side Wall Analyst: Dave Cousino 638704 Not Analyzed 01D Room 7 N Side Wall Analyst: Dave Cousino 638705 Not Analyzed 01E Room 3 W Side Wall Analyst: Dave Cousino 638706 Grey Plaster 3% Cellulose 97% Other None Detected 02A Non-Fibrous 1 N Wall Homogenous Analyst: Dave Cousino 638707 Grey Plaster 3% Cellulose 97% Other None Detected 02B Non-Fibrous 2 N Wall Homogenous Analyst: Dave Cousino

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Polarized Light Microscopy Asbestos Analysis Report

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Location :		Date Analyzed :	12/15/2017
	1223 S Holmes St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 638708 White Drywall 2% Cellulose 98% Other None Detected 03A Non-Fibrous 9 W Wall Homogenous Analyst: Dave Cousino 638709 White Drywall 3% Cellulose 97% Other None Detected 03B Non-Fibrous 9 S Wall Homogenous Analyst: Dave Cousino 638710 Tan 12x12 Marble 3% Cellulose 97% Other None Detected 04A Non-Fibrous 4 N Side Floor Homogenous Analyst: Dave Cousino 638711 Tan 12x12 Marble 4% Cellulose 96% Other None Detected 04B Non-Fibrous 4 S Side Wall Homogenous Analyst: Dave Cousino 638712 Tan 9x9 Tile 2% Cellulose 98% Other None Detected 05A Non-Fibrous 4 N Side Floor Homogenous Layer-1 Analyst: Dave Cousino 638712 Yellow Mastic 5% Cellulose 95% Other None Detected 05A Non-Fibrous 4 N Side Floor Homogenous Layer-2 Analyst: Dave Cousino 638713 Tan 9x9 Tile 2% Cellulose 98% Other None Detected 05B Non-Fibrous 4 S Side Floor Homogenous Layer-1 Analyst: Dave Cousino 638713 Yellow Mastic 3% Cellulose 97% Other None Detected 05B Non-Fibrous 4 S Side Floor Homogenous Layer-2 Analyst: Dave Cousino

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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

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	38900 Huron River Drive	Date Collected :	12/11/2017
	Romulus,MI 48174	Date Received :	12/13/2017
Location :	1223 S Holmes St, Lansing, MI	Date Analyzed :	12/15/2017

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 638714 Black Floor Board 2% Cellulose 98% Other None Detected 06A Non-Fibrous 4 N Side Floor Homogenous Layer-1 Analyst: Dave Cousino 638714 Yellow Mastic 4% Cellulose 96% Other None Detected 06A Non-Fibrous 4 N Side Floor Homogenous Layer-2 Analyst: Dave Cousino 638715 Black Floor Board 2% Cellulose 98% Other None Detected 06B Non-Fibrous 4 S Side Floor Homogenous Layer-1 Analyst: Dave Cousino 638715 Yellow Mastic 3% Cellulose 97% Other None Detected 06B Non-Fibrous 4 S Side Floor Homogenous Layer-2 Analyst: Dave Cousino 638716 Wood Linoleum 2% Cellulose 98% Other None Detected 07A Non-Fibrous 4 N Side Floor Homogenous Analyst: Dave Cousino 638717 Wood Linoleum 3% Cellulose 97% Other None Detected 07B Non-Fibrous 4 S Side Floor Homogenous Analyst: Dave Cousino 638718 Grey Linoleum 85% Cellulose 15% Other None Detected 08A Non-Fibrous 9 W Wall Homogenous Analyst: Dave Cousino 638719 Grey Linoleum 80% Cellulose 20% Other None Detected 08B Non-Fibrous 9 E Floor Homogenous Analyst: Dave Cousino

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Polarized Light Microscopy Asbestos Analysis Report

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	Romulus,MI 48174	Date Received :	12/13/2017
Location :		Date Analyzed :	12/15/2017
	1223 S Holmes St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 638720 White 12x12 Tile 75% Cellulose 25% Other None Detected 09A Non-Fibrous 8 E Side Floor Homogenous Analyst: Dave Cousino 638721 White 12x12 Tile 85% Cellulose 15% Other None Detected 09B Non-Fibrous 8 N Side Floor Homogenous Analyst: Dave Cousino 638722 Tan 12x12 Tile 3% Cellulose 97% Other None Detected 10A Non-Fibrous 8 E Side Floor Homogenous Layer-1 Analyst: Dave Cousino 638722 Yellow Mastic 2% Cellulose 98% Other None Detected 10A Non-Fibrous 8 E Side Floor Homogenous Layer-2 Analyst: Dave Cousino 638723 Tan 12x12 Tile 2% Cellulose 98% Other None Detected 10B Non-Fibrous 8 N Side Floor Homogenous Layer-1 Analyst: Dave Cousino 638723 Yellow Mastic 3% Cellulose 97% Other None Detected 10B Non-Fibrous 8 N Side Floor Homogenous Layer-2 Analyst: Dave Cousino 638724 Black Floor Board 4% Cellulose 96% Other None Detected 11A Non-Fibrous 8 E Side Floor Homogenous Layer-1 Analyst: Dave Cousino 638724 Yellow Mastic 3% Cellulose 97% Other None Detected 11A Non-Fibrous 8 E Side Floor Homogenous Layer-2 Analyst: Dave Cousino

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Polarized Light Microscopy Asbestos Analysis Report

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	Romulus,MI 48174	Date Received :	12/13/2017
Location :		Date Analyzed :	12/15/2017
	1223 S Holmes St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 638725 Black Floor Board 4% Cellulose 96% Other None Detected 11B Non-Fibrous 8 N Side Floor Homogenous Layer-1 Analyst: Dave Cousino 638725 Yellow Mastic 3% Cellulose 97% Other None Detected 11B Non-Fibrous 8 N Side Floor Homogenous Layer-2 Analyst: Dave Cousino 638726 Tan Tape 90% Cellulose 10% Other None Detected 12A Fibrous #9 E Wall Homogenous Analyst: Dave Cousino 638727 Tan Tape 95% Cellulose 5% Other None Detected 12B Fibrous #7 E Wall Homogenous Analyst: Dave Cousino 638728 Grey Mud 2% Cellulose 98% Other None Detected 13A Non-Fibrous #9 E Wall Homogenous Analyst: Dave Cousino 638729 Grey Mud 2% Cellulose 98% Other None Detected 13B Non-Fibrous #7 F Walls Homogenous Analyst: Dave Cousino 638730 Grey/White Linoleum 2% Cellulose 98% Other None Detected 14A Non-Fibrous #3 N Floor Homogenous Analyst: Dave Cousino





Polarized Light Microscopy Asbestos Analysis Report

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Location :	1223 S Holmes St, Lansing, MI	Date Analyzed :	12/15/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
638731 14B #3 W Floor Analyst: Dave Cousino	Linoleum	Grey/White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638732 15A #4 N Side Floor Analyst: Dave Cousino	Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638733 15B #12 S Side Floor Analyst: Dave Cousino	Cement Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
638734 16A #11 S Side Wall Analyst: Dave Cousino	Cinder Block	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
638735 16B #11 N Side Wall Analyst: Dave Cousino	Cinder Block	Grey Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected
638736 17A #11 S Side Wall Analyst: Dave Cousino	Mortar	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
638737 17B #11 N Side Wall Analyst: Dave Cousino	Mortar	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

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	Romulus,MI 48174	Date Received :	12/13/2017
Location :		Date Analyzed :	12/15/2017
	1223 S Holmes St, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
638738 18A #10 N Side Analyst: Dave Cousino	Blown-In	Grey Fibrous Homogenous	80% Cellulose	20% Other	None Detected
638739 18B #10 S Side Analyst: Dave Cousino	Blown-In	Grey Fibrous Homogenous	80% Cellulose	20% Other	None Detected
638740 19A Ext E Side Analyst: Dave Cousino	House Wrap	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
638741 19B Ext N Side Analyst: Dave Cousino	House Wrap	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
638742 20A Ext E Side Analyst: Dave Cousino	Fiber Board	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
638743 20B Ext N Side Analyst: Dave Cousino	Fiber Board	Black Fibrous Homogenous	85% Cellulose	15% Other	None Detected
638744 21A Ext Roof S Side Analyst: Dave Cousino	Asphalt Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected





Polarized Light Microscopy Asbestos Analysis Report

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	Romulus,MI 48174	Date Received :	12/13/2017
Location :		Date Analyzed :	12/15/2017
	1223 S Holmes St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 638745 Black Asphalt Shingle 2% Cellulose 98% Other None Detected 21B Non-Fibrous Ext Roof N Side Homogenous Analyst: Dave Cousino 638746 Yellow/White Window Glaze 2% Cellulose 98% Other None Detected 22A Non-Fibrous N Side Homogenous Analyst: Dave Cousino 638747 Yellow/White Window Glaze 2% Cellulose 98% Other None Detected 22B Non-Fibrous S Side Homogenous Analyst: Dave Cousino 644354 Grey Plaster 97% Other 3% Cellulose None Detected 02C Non-Fibrous RM8 E Wall Homogenous Analyst: Dave Cousino 644355 Grey Plaster 3% Cellulose 97% Other None Detected 02D Non-Fibrous RM3 N Wall Homogenous Analyst: Dave Cousino 644356 Grey Plaster 2% Cellulose 98% Other None Detected 02E Non-Fibrous RM9 W Wall Homogenous Analyst: Dave Cousino



Lab Supervisor/Other Signatory

Analyst: Dave Cousino

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	38900 Huron River Drive	Date Collected :	12/28/2017
	Romulus,MI 48174	Date Received :	12/29/2017
Location :	1223 S Holmes St, Lansing, MI	Date Analyzed :	01/02/2018

Sample

Appearance

Description

% 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-93-118 & EPA 600/M-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.

3	38900 HURON RIVE ROMULUS, MICHIGAN (734) 955-6600 FAX: (734) 992-226	R DRIVE 48174	Bulk A Chain o	sbestos f Custody
	www.2eti.com		ETL Project #: 190	859
Client:		Contact:	Project Location/name:	
	EIC	Phone: (734) 955-6600	1223 4	lolmes
Address:	721 N. Capitol Ave. Suite 3	Fax: (734) 955-6604		
	Lansing, MI 48906	E-mail:	Client Project #: 199	859
Please Prov	ide Results: 👷 Email	□ Fax □ Verbal □ Other	Date Sampled: 12/11	119
Т	urnaround Time (TAT):	□ RUSH □ Same Day □ 24 hr □ 4	8 hr 👹 Standard (3+ days) 🛛] Other
		PLM Instructions (Check all that apply)		
	600/R-93/116, 1993 (Star	ndard method)	Stop at 1st Positive	-
D Point Cour	nting: 400 Points*	the same termination for the second	Clearly mark Homogen	ous Group
D PLM Non-	Building Material (Dust V	Vipe, Tape)	Soil or Vermiculite A	nalvsis *
Additional cha	rge and turnaround may be r	equired		
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	Sample ID	Sample Location	Material	Description
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ved (Name/ETL):	Britter	mai whallos	12/13/1-	7 am/o
oscopical Analysi	S(Name/ETL) DADE	(aduaid)	12/14/11	7 17:30 amin
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Instantion	- Cra			an/pr
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Asbestos Material Sampling Summary Sheet Surfacing materials

Picture # Quantity 3000 51 Date: 12/11/19 Material Located throughout bldg (Please List all Rooms) Last Preught 302 23 07 8 Į Side will Lo Tul brull hau Ine U 5200 5126 Sed STUL Sample Location 2 2 3 2 3 Hotmes Rown 2 Room S 3 5 Room Roum Ream 5281 Sample Letter 8 4 V A 22 Building: Friable (F) / Non-Friable (INF) 2 Material Description Material: Well 54th White 853 Material: Material: 66 :# qof Material no. 0

1000 - <5000 = 5 samples

512

<1000 SF = 3 samples

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Picture # 252 3360 144 441 Quantity 526 144 0 0 0 0 11 Material Located throughout bldg (Please List all Rooms) typenert + 121 s. 48 0 7 RA 8 #8 Z 7 Date: # 九 # 井 # # H 011 122 123 Cer DQ1 638706 POL 00 612 4 h 1 DIC 080 10 pl 13 C flour Fleur Flur Flor flour Clark FLORN Flow Plaur Flaw floor fler Floor Sample Location Flool flow Holmes Nacal Side 39 ME Floor Side Stde 5 302 N SI Jahr Sel STUL Side. SIL Sale town SEde SICh Side N 550e Wall Way 80mm 12964 2 5 S 2 2 122 W 5 2 2 2 122 N 2 ~ 30 0 00 5 do 00 5 5 T 7 1 3 7 T 2 5 Sample 7 0 --4 -7 -A 8 4 8 4 00 7 8 4 8 7 A Building: Friable (F) / Non-Friable (NF) 2 2 2 2 2 2 2 2 L 12 Bourd Baurd Fan, Masble 6523 wall Material Description Land of our インメイ Bluch Pluster an cho ma-4 white 2 LIX'S Flooring Bluch Grey White bouch floor rat D 751 × tan Grey 0 99 855 5 Material: Description Description Description Material: Material: Material: Description Material: Description Description Material: Description Material: Description Description Material: Description Material: Material: Job #: 207 Material 40 50 90 60 00 M 00 io. 2 = 0 0

2 samples

3/5

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Picture # 1458 8511 Quantity 童 296 14 58 8511 454 1958 144 24 だ 11 Material Located throughout bldg (Please List all Rooms) they at Alerson throught 11/12/13 121 21/11/11 W 112/13 西午 114 ELt 410 #3 Date: 145 136 68L 328 738 7 CHL PCC 723 2 0 40 2 5 242 They Side 73 30 12 74 Flar Plour Sul Flow Hur Ling floor In Tull TINU Sample Location GJ& U 5 2 www Red 1 mm ww 3 5240 かう Sido 540 Stalo 5210 SIDE Side Six Sa SHE 5hde ROCC LUDE Holmes 11 X23 調べ 2 5 (22 al 4 22 2 2 15 5 2 2 2 オメキ 3 Ext 2xt ext EVL 2 C 5 5 5 m s 0 ext 立ち 2 17 2 5 M 事 7 年 * # # * A 2 H 1 # T イン Sample Letter 4 9 2 9 A 4 T 9 A 9 20 A 9 4 40 P 9 A 4 4 Building: Friable (F) / Non-Friable (NF) L AD 2 2 12 2 2 T 2 A 1 Shingle Block Rown LUNL fluor T Bound LARAP あん Material Description 2 60.4 Lindlum Bluch 2 Cinder Grey 151 Bhuin Cement Ash phul House fiber 684 Sey Grey Phu muster Grey RACE 400 859 Material: Material: Description Material: Description Material: Description Material: Description Material: Description Description Description Material: Description Material: Material: Material: Description Description 66 Job #: Material 4 5 5 5 20 no. 3 81 91 6.0 3

2 samples

415

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Inh 44.								
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Material		Estable (T)			Saulon	Date: 17/1	611,	
цо.	Material Description	Non-Friable (NF)	Sample Letter		Sample Location	Material Located throughout bldg	Quantity	Picture #
6.6	Material: (,) Ind		1.	:		(Please List all Rooms)		
5	Description Well 11	A L	A	2	52C 638741	ext o	13	
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2 samples

SK

ENVIRONMENTAL TESTING LABORATORIES, INC 38900 HURON RIVER DRIVE



ROMULUS, MICHIGAN 48174

(734) 955-6600

FAX: (734) 992-2261 WALAN 2011

Bulk Asbestos Chain of Custody

Other

9859	ETL Project #: \(www.zeu.com	
9;	Project Location/n	ct: Liv Hagerman	Contac	ETC	Client:
imes st	71223 5 1	: (734) 955-6600	Phone:		
48910	CANSING, A	(734) 955-6604	Fax:	721 N. Capitol Ave. Sulte 3,	Address:
19859	Client Project #:	results@2etc.com	E-mail:	Lansing, Mi 48906	
28117	Date Sampled:	Verbal Other	o Fax o	ide Results: dEmail	Please Prov
19 2	Client Project #:	; (734) 955-6600 (734) 955-6604 ; results@2stc.com □ Verbal □ Other	Fax: E-mail:	721 N. Cepiloi Ave. Sulte 3, Lensing, MI 48906 ide Results: LEmail	Address: Please Prov

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

PLM Instr	uctions
(Check all th	nat apply)
drPLM EPA600/R-93/116, 1993 (Standard method)	-Stop at 1st Positive -
Point Counting: 400 Points*	Clearly mark Homogenous Group
PLM Non-Building Material (Dust, Wipe, Tape)	□ Soil or Vermiculite Analysis *
* Additional charge and turners and any here and a	

Additional charge and turnaround may be required

LabiD	Sample ID	Sample Location	Material Description
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			Date Time

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Received (Name/ETL):	an monasta	12/29/17	amiam
Stereoscopical Analysis (Name/ETL): David Course	8	1/2/18	8:00 -
Sample Login (Name/ETL): Brittamy Wo	alls	12/29/17	1150 mm
Analysis (Name/ETL): Adapted Contact	The	1/2/18	BIDD and
QAVQC Review (Name/ETL):		1/2/18	am/pm
Special Instructions:		Remarks	
please point count Sander 2:	to or less		

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Ig Summary Sheet	erials
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Asbestos	

Job #:	000000		1000				
Γ	4001	Building		3. Mathers SC, Lunsurg mr	Date:		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bidg	Quantity	Dicture #
	Material: Muskey	T	c	hh?	(Please List all Rooms)	ſ	# 2 892
			A	RANZ N (JOH) 250			
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8							
		3					
					7		
T							
	Material:						
1							

1000 - <5000 = 5 samples

<1000 SF = 3 samples

- ------

2 of 2

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.

Wode Wiltz

Prepared by:

Wade Wiltse, Michigan Certified Asbestos Inspector (s) Michigan Accreditation Number (s) A-51051

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank 3024 Turner Street Lansing, MI 48906

Parcel:	33-01-01-22-301-071
House No:	725 Beulah St, Lansing, MI 48910
Date Inspected:	12/19/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information

No. Stories	1	Garage	No Garage
Square Footage	1920 SF	Garage Square Footage	NA
Basement Square Footage	1368 SF	Garage Siding	NA
Siding	4512 SF	Garage Color	NA
Color	Green	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			





38900 West Huron River Drive, Romulus, MI 48174 PHONE: (734) 955-6600 FAX: (734) 955-6604 WEBSITE: www.2etc.com

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-22-301-071
House No.	725 Beulah St, Lansing, MI 48910
Date Inspected:	12/19/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Tank	1	Room 11
Electronics (treadmill)	1	Room 11
Fire Extinguishers	1	Room 12
Misc. Items (solvents, cleaners)	3	Room 4, 8, 9
Paint Cans	9 (1 gallon)	Room 1, 4, 11
Boat	1	Exterior (house)

TIRE(s) REPORT

Material	Quantity & Units	Location
Tires	2	Exterior (house)

Parcel:

33-01-01-22-301-071

House No.

Date Inspected:

725 Beulah St, Lansing, MI 48910

12/19/2017

TABLE 2 SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Plaster, grey	Throughout	4707 SF	No
2	NF	Texture, white	Throughout	4707 SF	YES
3	NF	Linoleum, tan	Room 1	324 SF	No
4	NF	Linoleum, cream	Room 4	180 SF	No
5	NF	Linoleum, white	Room 5	9 SF	No
6	NF	Linoleum, cream	Room 7, 8	132 SF	No
7	NF	Wall linoleum, red/brick	Room 5	30 SF	No
8	NF	12x12 Peel and stick, white/blue	Room 6	48 SF	No
9	NF	12x12 Peel and stick, light purple/ white	Room 6	48 SF	No
10	NF	12x12 Peel and stick, white	Room 6	48 SF	No
11	NF	Fiberboard, brown	Room 6	280 SF	No
12	NF	Fiberboard, tan	Room 9	600 SF	No
13	NF	Brick, white	Room 11, 12	72 SF	No
14	NF	Cinderblock, grey	Room 12	504 SF	No
15	NF	Mortar, grey	Room 12	300 SF	No
16	NF	Concrete, grey	Room 11, 12	1368 SF	No
17	NF	Block, grey	Room 11	840 SF	No
18	NF	House wrap, tan	Exterior	4512 SF	No
19	NF	Shingle, black/brown	Exterior	2000 SF	No

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

Attachment:

Site Drawing



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

> Ingham County Land Bank 199861







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

Ingham County Land Bank 199861

 \bigwedge Sample Location



Vent

Vent



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

> Ingham County Land Bank 199861



Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel:	33-01-01-22-301-071
House No.	725 Beulah St, Lansing, MI 48910
Date Inspected:	12/19/2017





Front of house/property

Side #1 of house/property





Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-22-301-071
House No.	725 Beulah St, Lansing, MI 48910
Date Inspected:	12/19/2017



Hot Water Tank



Electronics (treadmill)





Misc. Items (solvents, cleaners)

Paint Cans
Representative Pictures of Hazardous Materials

Parcel:	33-01-01-22-301-071
House No.	725 Beulah St, Lansing, MI 48910
Date Inspected:	12/19/2017





Tires

Boat



Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-22-301-071
House No.	725 Beulah St, Lansing, MI 48910
Date Inspected:	12/19/2017



Texture, white

Attachment:

Laboratory Analytical Results

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

To :	Environmental Testing And Consulting Inc.	Project Location :
	38900 Huron River Drive	725 Beulah St, Lansing, MI
	Romulus, MI 48174	
Atter	tion :	

Client Project : 33-01-01-22-301-071

ETC Job : 199861 Report Date : 12/21/2017

Login #	Sample ID	Work Requested	Completed
641815	01A	Asbestos Analysis	12/21/2017
641816	01B	Asbestos Analysis	12/21/2017
641817	01C	Asbestos Analysis	12/21/2017
641818	01D	Asbestos Analysis	12/21/2017
641819	01E	Asbestos Analysis	12/21/2017
641820	02A	Asbestos Analysis	12/21/2017
641821	02B	Asbestos Analysis	12/21/2017
641822	02C	Asbestos Analysis	12/21/2017
641823	02D	Asbestos Analysis	12/21/2017
641824	02E	Asbestos Analysis	12/21/2017
641825	03A	Asbestos Analysis	12/21/2017
641826	03B	Asbestos Analysis	12/21/2017
641827	04A	Asbestos Analysis	12/21/2017
641828	04B	Asbestos Analysis	12/21/2017
641829	05A	Asbestos Analysis	12/21/2017
641830	05B	Asbestos Analysis	12/21/2017
641831	06A	Asbestos Analysis	12/21/2017
641832	06B	Asbestos Analysis	12/21/2017
641833	07A	Asbestos Analysis	12/21/2017
641834	07B	Asbestos Analysis	12/21/2017

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-

ETC Job: 199861

Report Date : 12/21/2017

Login #	Sample ID	Work Requested	Completed
641835	08A	Asbestos Analysis	12/21/2017
641836	08B	Asbestos Analysis	12/21/2017
641837	09A	Asbestos Analysis	12/21/2017
641838	09B	Asbestos Analysis	12/21/2017
641839	10A	Asbestos Analysis	12/21/2017
641840	10B	Asbestos Analysis	12/21/2017
641841	11A	Asbestos Analysis	12/21/2017
641842	11B	Asbestos Analysis	12/21/2017
641843	12A	Asbestos Analysis	12/21/2017
641844	12B	Asbestos Analysis	12/21/2017
641845	13A	Asbestos Analysis	12/21/2017
641846	13B	Asbestos Analysis	12/21/2017
641847	14A	Asbestos Analysis	12/21/2017
641848	14B	Asbestos Analysis	12/21/2017
641849	15A	Asbestos Analysis	12/21/2017
641850	15B	Asbestos Analysis	12/21/2017
641851	16A	Asbestos Analysis	12/21/2017
641852	16B	Asbestos Analysis	12/21/2017
641853	17A	Asbestos Analysis	12/21/2017
641854	17B	Asbestos Analysis	12/21/2017
641855	18A	Asbestos Analysis	12/21/2017
641856	18B	Asbestos Analysis	12/21/2017
641857	19A	Asbestos Analysis	12/21/2017
641858	19B	Asbestos Analysis	12/21/2017

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ETC Job: 199861

Report Date : 12/21/2017

Login #

Sample ID

Work Requested

Completed

Reviewed by:

Darmzwall

Quality Assurance Coordinator

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.





Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199861
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-301-071
	38900 Huron River Drive	Date Collected :	12/19/2017
Location :	Romulus,MI 48174	Date Received :	12/21/2017
		Date Analyzed :	12/21/2017
	725 Beulah St, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641815 01A Rm 1 N Wall Analyst: Liliane Mason	Plaster	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641816 01B Rm 3 E Wall Analyst: Liliane Mason	Plaster	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641817 01C Rm 2 N Wall Analyst: Liliane Mason	Plaster	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641818 01D Rm 8 N Wall Analyst: Liliane Mason	Plaster	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641819 01E Rm 6 S Wall Analyst: Liliane Mason	Plaster	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641820 02A Rm 1 N Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641821 02B Rm 3 E Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected





Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199861
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-301-071
	38900 Huron River Drive	Date Collected :	12/19/2017
	Romulus,MI 48174	Date Received :	12/21/2017
Location :		Date Analyzed :	12/21/2017
	725 Beulah St, Lansing, MI	2	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641822 02C Rm 2 N Wall Layer-1 Analyst: Liliane	Texture Mason	Blue Non-Fibrous Homogenous		97% Other	3% Chrysotile
02C,02D is different the	an 02A,02B,02E				
641822 02C Rm 2 N Wall Layer-2 Analyst: Liliane	Drywall Mason	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641823 02D Rm 8 N Wall Analyst: Liliane Mason		Not Analyzed			
641824 02E Rm 6 S Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641825 03A Rm 1 N Floor Analyst: Liliane Mason	Linoleum	Tan Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641826 03B Rm 1 NE Floor Analyst: Liliane Mason	Linoleum	Tan Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641827 04A Rm 4 S Floor Analyst: Liliane Mason	Linoleum	Cream Fibrous Homogenous	7% Cellulose	93% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199861
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-301-071
	38900 Huron River Drive	Date Collected :	12/19/2017
Location :	Romulus,MI 48174	Date Received :	12/21/2017
		Date Analyzed :	12/21/2017
	725 Beulah St, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641828 04B Rm 4 W Floor Analyst: Liliane Mason	Linoleum	Cream Fibrous Homogenous	10% Cellulose	90% Other	None Detected
641829 05A Rm 5 W Floor Analyst: Liliane Mason	Linoleum	White Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641830 05B Rm 5 E Floor Analyst: Liliane Mason	Linoleum	White Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641831 06A Rm 8 W Floor Analyst: Liliane Mason	Linoleum	Cream Fibrous Homogenous	5% Cellulose	95% Other	None Detected
641832 06B Rm 7 W Floor Analyst: Liliane Mason	Linoleum	Cream Fibrous Homogenous	3% Cellulose	97% Other	None Detected
641833 07A N Wall Rm 5 Analyst: Liliane Mason	Wall Linoleum	Red Fibrous Homogenous	50% Cellulose	50% Other	None Detected
641834 07B N Wall Rm 5 Analyst: Liliane Mason	Wall Linoleum	Red Fibrous Homogenous	50% Cellulose	50% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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	Romulus,MI 48174	Date Received :	12/21/2017
Location :		Date Analyzed :	12/21/2017
	725 Beulah St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 641835 Blue 12x12 Peel and Stick 1% Cellulose 99% Other None Detected 08A Non-Fibrous Rm 6 E Floor Homogenous Layer-1 Analyst: Liliane Mason 641835 White 12x12 Peel and Stick 1% Cellulose 99% Other None Detected 08A Non-Fibrous Rm 6 E Floor Homogenous Layer-2 Analyst: Liliane Mason 641836 Blue 12x12 Peel and Stick 1% Cellulose 99% Other None Detected 08B Non-Fibrous Rm 6 W Floor Homogenous Analyst: Liliane Mason 641837 Purple 12x12 Peel and Stick 1% Cellulose 99% Other None Detected 09A Non-Fibrous Rm 6 E Floor Homogenous Analyst: Liliane Mason 641838 Purple 12x12 Peel and Stick 1% Cellulose 99% Other None Detected 09B Non-Fibrous Rm 6 W Floor Homogenous Analyst: Liliane Mason 641839 White 12x12 Peel and Stick 1% Cellulose 99% Other None Detected 10A Non-Fibrous Rm 6 E Floor Homogenous Layer-1 Analyst: Liliane Mason 641839 Black 12x12 Peel and Stick 2% Cellulose 98% Other None Detected 10A Non-Fibrous Rm 6 E Floor Homogenous Layer-2 Analyst: Liliane Mason

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199861
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-301-071
	38900 Huron River Drive	Date Collected :	12/19/2017
	Romulus,MI 48174	Date Received :	12/21/2017
Location :		Date Analyzed :	12/21/2017
	725 Beulah St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 641840 White 12x12 Peel and Stick 2% Cellulose 98% Other None Detected 10B Non-Fibrous Rm 6 W Floor Homogenous Layer-1 Analyst: Liliane Mason 641840 Black 12x12 Peel and Stick 2% Cellulose 98% Other None Detected 10B Non-Fibrous Rm 6 W Floor Homogenous Layer-2 Analyst: Liliane Mason 641841 Brown Fiber Board 70% Cellulose 30% Other None Detected 11A Fibrous N Wall Rm 6 Homogenous Analyst: Liliane Mason 641842 Brown Fiber Board 70% Cellulose 30% Other None Detected 11B Fibrous S Wall Rm 6 Homogenous Analyst: Liliane Mason 641843 Tan Fiber Board 70% Cellulose 30% Other None Detected 12A Fibrous N Wall Rm 9 Homogenous Analyst: Liliane Mason 641844 Tan Fiber Board 70% Cellulose 30% Other None Detected 12B Fibrous S Wall Rm 9 Homogenous Analyst: Liliane Mason 641845 White Brick 2% Cellulose 98% Other None Detected 13A Non-Fibrous Rm 11 NW Entrance Way Homogenous Analyst: Liliane Mason

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199861
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-301-071
	38900 Huron River Drive	Date Collected :	12/19/2017
	Romulus,MI 48174	Date Received :	12/21/2017
Location :		Date Analyzed :	12/21/2017
	725 Beulah St, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641846 13B Rm 11 NE Entrance Wa Analyst: Liliane Mason	Brick ay	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641847 14A Rm 12 N Wall Analyst: Liliane Mason	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641848 14B Rm 12 E Wall Analyst: Liliane Mason	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641849 15A Rm 12 N Wall Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641850 15B Rm 12 E Wall Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641851 16A Rm 11 Floor Center Analyst: Liliane Mason	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641852 16B Rm 12 Floor Center Analyst: Liliane Mason	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-301-071
	38900 Huron River Drive	Date Collected :	12/19/2017
	Romulus,MI 48174	Date Received :	12/21/2017
Location :		Date Analyzed :	12/21/2017
	725 Beulah St, Lansing, MI		

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
641853 17A Rm 11 N Wall Analyst: Liliane Mason	Block	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641854 17B Rm 11 W Wall Analyst: Liliane Mason	Block	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
641855 18A S Wall Ext House Analyst: Liliane Mason	House Wrap	Tan Fibrous Homogenous	60% Cellulose	40% Other	None Detected
641856 18B W Wall Ext House Analyst: Liliane Mason	House Wrap	Tan Fibrous Homogenous	60% Cellulose	40% Other	None Detected
641857 19A S Roof Ext House Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
641858 19B W Roof Ext House Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Lab Supervisor/Other Signatory

Analyst: Liliane Mason

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199861
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-301-071
	38900 Huron River Drive	Date Collected :	12/19/2017
	Romulus,MI 48174	Date Received :	12/21/2017
Location :	725 Beulah St, Lansing, MI	Date Analyzed :	12/21/2017

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

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ENVIRONMENTAL TESTING LABORATORIES, INC 38900 HURON RIVER DRIVE

k 15

ROMULUS, MICHIGAN 48174 (734) 955-6600

FAX: (734) 992-2261

Dati

Bulk Asbestos Chain of Custody

	www.zeti.com		EII. Project #:	
Cflent:	ETA	Contact:	Project Location/name:	-
	EIC	Phone: (734) 955-6600	725 Beulah	
Address:	721 N. Cepitol Ave. Suite 3, Lansing, MI 48906	Fax: (734) 955-6604		
		E-mail: results@2etc.com	Client Project #: 19986	
Please Prov	ide Results: o Email	□ Fax □ Verbal □ Other	Date Sampled: 12/19/17	

12

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

PLM Instructions

(Check all th	at apply)
X PLM EPA600/R-93/116, 1993 (Standard method)	d Stop at 1st Positive -
Depart Counting: 400 Points*	Clearly mark Homogenous Group
PLM Non-Building Material (Dust, Wipe, Tape)	Soil or Vermiculite Analysis *

* Additional charge and turnaround may be required

Sample ID	Sample Location	Material Description
UI A. B, CP, E		
UZ ABLIDE		
U3 AB		
		term
19 AB		

	Sample ID (11 A.B, CA, E) (12 ABCDE) (12 ABCDE) (13 AB) 19 AB 19 AB	Sample IDSample Location $OIA.B, GD, E$ $OZABCDE$ $OZABCDE$ $OZAB$ $IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$

	Date	Time
Relinguished (Name/Organization): (1) ode Wilke,	12/19/17	am/pm
Received (Name/ETL): Roberta Cotto	12,21.17	am/pm
Stereoscopical Analysis (Name/ETL): duta	12/21/17	am/pm
Sample Login (Name/ETL): But See	12.21.17	am/pm
Analysis (Name/ETL):	12/79/21/17	am/pm
QA/QC Review (Name/ETL):	12/2/117	am/pm
Special Instructions: Please count and thing leas than 30/00	Remarks	
- tring test finit s / C)		

.# 0	1908101		200	nacing materials				7///canp
	10021	Building	#	25 Beulan St		Jata 12	0.10	
iterial no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		Material Located throughout bldg	Quantity	
10	Material: Plaster grey	42	r ol w	Rul Ruth wall (Anz east wall Rus north wall Rus north wall Rus south wall	- Contraction	Please List all Rooms) Thruc us hout	(minute)	
2	Material: Textue White	UL 2 2	KOU DN	save as old Save as old Save as old Save as old Save as old	XXXXXXX CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Throughout		
	Material:							

1000 - <5000 = 5 samples

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Picture # Quantity N Date: 12 |19 throughout bldg (Please List all Rooms) F,8mg Russ Material Located Ral F rd Pro Ry 6 Pur 1 Rus ٩ 5 3 3 980 836 200 832 83 ۯ 200 Sa 831 CT T S S かん XUC J \mathfrak{S} 10 north east floor 826 floor Flour Rag (100) J Floor Ku 6 FLOOR uest floor 5 Floor cald y thas Sample Location north wall RmS NUTH FLOOR ち 080 uest Score as 08A west uest too topa + son Some as 08A Sure as 080 South vall Beulah north wall South wall northwall こう ちちしく Sareas Sa wo Par 7 Som S Rus Pri la Rale Pro 1 Pur y Par 1 (m) N Sample Letter r -A * -00 8 4 -7 8 P -4 8 4 5 4 4 4 0 Building: Friable (F)/ Non-Friable (NF) NF SF 22 25 32 5 32 CL Sto 4 3 2 light purple (white /spec) white bue Material: Well Lindeun 12×12 945 / brick va fiber bow 3 Material Description Filer Jowel -inoleum Cinoleun Linoleum Creen Crean Sof Lindleur white Vonera 21×2 JZXIZ si in Red tar 8 9866 Description Material: Description Description Description Description Material: Material: Description Material: Description Material: Description Material: Material: Material: Description Material: Description Job #: 50 50 Material 20. 20 2 50 0 1, 00 57 PC 0

2 samples

2014

Bung

Revision date 5/7/2015

Sheet
Summary terials
sampling leous mat
Material S Miscellan
Asbestos

Revision date 5/7/2015

÷

Job #:	199861						
Material	Mahadal	Friable (E)	725 Seulah St		Date: 12)]	2112	
bi .	material Description	Non-Friable (NF)	Sample Sample Location		Material Located		
3	Material: Brich 641845		0, 11 A1		throughout bldg (Please List all Rooms)	Quantity	Picture #
-	UBECTIPATION White RUI	12	E DO IL ALE ENTRE	Mce way	21/11-20		
5	Material: Civiler block 847 Description	4	A RAIS MATHING	Pure way	estrare		
2	Material: Morth C & 10	2 0	B Cull eastwall		Ruiz		
2	Description a ren 2 riv	3 t	A Now Some as 14A		1200	T	
2	Material: CONCRERE RSI	0	B Save as 14B				
	vescription grear 253	5	R M 13 F.		12111		
さ	Material: block 853	0	A DAIL HOBT CENTER				
T	Sco SSU	12	B Darll Nortward				
8	Material: Ho ve wrap 855	٩	A Call in all wall		_		1
	ten 856	12	B west will or i	are .	ext		
0	Description , 1 ng le 857	J.V.	A Suth and a	NUX.	hout		
	MANNALLY BIGLY / Brown 858	2	B here tool at the	3	ext		
	Description		A	tion	Junt		
	Material						
	Description		V				
	Material.		a				
	Description		A		T	1	
1			a				

2 samples

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

Laboratory Analysis / Results

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

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

SIGNATURE

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

Wode Wiltz

Prepared by: _

Wade Wiltse, Michigan Certified Asbestos Inspector (s) Michigan Accreditation Number (s) A-51051

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

	Ingham County Land Bank 3024 Turner Street Lansing, MI 48906
Parcel:	33-01-01-22-303-011
House No:	710 Beulah St, Lansing, MI 48911
Date Inspected:	12/3/2017 & 2/16/2018
Inspected By:	Jake Gleason & Wade Wiltse
Inspectors State Card #	A-49991

Building Information

No. Stories	2	Garage	No Garage
Square Footage	2000 SF	Garage Square Footage	NA
Basement Square Footage	800 SF	Garage Siding	NA
Siding	Transite	Garage Color	NA
Color	White/pink	Garage Shingles	NA
Roof Shingles	Asphalt Shingles	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			





38900 West Huron River Drive, Romulus, MI 48174 PHONE: (734) 955-6600 FAX: (734) 955-6604 WEBSITE: www.2etc.com

Pre-Demolition Environmental Inspection Summary Report

Date Inspected:	12/3/2017 & 2/16/2018
House No.	710 Beulah St, Lansing, MI 48911
Parcel:	33-01-01-22-303-011

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Water Heater	1	Room 8
Misc. Items (joint compound)	3	Room 15
Paint Can	1	Room 8
Thermostat	1	Room 1

TIRE(s) REPORT

Material

Quantity & Units

Location

None observed above household quantities

Parcel:

House No.

Date Inspected:

33-01-01-22-303-011

710 Beulah St, Lansing, MI 48911

12/3/2017 & 2/16/2018

TABLE 2 SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	House wrap, brown	Exterior (house)	1500 SF	No
2	F	Transite, white/pink	Exterior (house)	1500 SF	YES
3	F	Window glaze, white	Exterior (house)	25 windows	No
4	NF	Asphalt shingle, black	Exterior (house)	1200 SF	No
5	F	Duct wrap, grey	Rooms 2, 13, 14	20 SF	YES
6	NF	Plaster, grey	Throughout	4800 SF	No
7	NF	Drywall, white	Room 4, 5	850 SF	No
8	NF	Ceiling tile 2x4, white w/ holes	Room 3	117 SF	No
9	F	Underlayment, tan	Rooms 3, 4	117 SF	No
10	NF	Peel and stick 12x12, grey	Rooms 3, 4, 5	220 SF	No
11	NF	Hard board, brown/tan	Room 12	250 SF	No
12	F	Blown-in insulation, grey	Rooms 11-15	1926 SF	No
13	NF	Wire insulation, black	Throughout	20 SF	No
14	NF	12x12 Floor tile, grey/white	Room 12	70 SF	No
16	NF	Basement floor concrete, grey	Rooms 7, 8, 9	370 SF	No
17	NF	Stack cement, grey	Room 7	1 SF	No
18	NF	Basement wall concrete, grey	Rooms 7, 8, 9	1100 SF	No
19	NF	Chimney concrete block, grey	Room 7	120 SF	No
20	NF	Window caulk, white	Room 19	10 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 <u>estimates only</u>. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

A

Sample Location



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

> Ingham County Land Bank 199862





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

> Ingham County Land Bank 199862







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

> Ingham County Land Bank 199862



Attachment:

Site Photographs

Representative Pictures of House/Property

 Parcel:
 33-01-01-22-303-011

 House No.
 710 Beulah St, Lansing, MI 48911

 Date Inspected:
 12/3/2017 & 2/16/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-22-303-011
House No.	710 Beulah St, Lansing, MI 48911
Date Inspected:	12/3/2017 & 2/16/2018





Misc. Items (joint compound)



Water Heater

Thermostat



Paint Can

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-22-303-011
House No.	710 Beulah St, Lansing, MI 48911
Date Inspected:	12/3/2017 & 2/16/2018





Transite, white/pink

Duct wrap, grey

Attachment:

Laboratory Analytical Results

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

REVISED REPORT



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

Project Location :

710 Beulah St, Lansing, MI

Attention :

Client Project : 33-01-01-22-303-011

ETC Job: 199862

Report Date : 3/12/2018

Login #	Sample ID	Work Requested	Completed
634928	1A	Asbestos Analysis	12/08/2017
634929	1B	Asbestos Analysis	12/08/2017
634930	2A	Asbestos Analysis	12/08/2017
634931	2B	Asbestos Analysis	12/08/2017
634932	3A	Asbestos Analysis	12/08/2017
634933	3B	Asbestos Analysis	12/08/2017
634934	4A	Asbestos Analysis	12/08/2017
634935	4B	Asbestos Analysis	12/08/2017
688562	05A	Asbestos Analysis	12/08/2017
688563	05B	Asbestos Analysis	02/20/2018
688564	05C	Asbestos Analysis	02/20/2018
688565	06A	Asbestos Analysis	02/20/2018
688566	06B	Asbestos Analysis	02/20/2018
688567	06C	Asbestos Analysis	02/20/2018
688568	06D	Asbestos Analysis	02/20/2018
688569	06E	Asbestos Analysis	02/20/2018
688570	06F	Asbestos Analysis	02/20/2018
688571	06G	Asbestos Analysis	02/20/2018
688572	07A	Asbestos Analysis	02/20/2018
688573	07B	Asbestos Analysis	02/20/2018

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ETC Job: 199862

Report Date : 3/12/2018

Login #	Sample ID	Work Requested	Completed
688574	8A	Asbestos Analysis	02/20/2018
688575	8B	Asbestos Analysis	02/20/2018
688576	9A	Asbestos Analysis	02/20/2018
688577	9B	Asbestos Analysis	02/20/2018
688578	10A	Asbestos Analysis	02/20/2018
688579	10B	Asbestos Analysis	02/20/2018
688580	11A	Asbestos Analysis	02/20/2018
688581	11B	Asbestos Analysis	02/20/2018
688582	12A	Asbestos Analysis	02/20/2018
688583	12B	Asbestos Analysis	02/20/2018
688584	13A	Asbestos Analysis	02/20/2018
688585	13B	Asbestos Analysis	02/20/2018
688586	14A	Asbestos Analysis	02/20/2018
688587	14B	Asbestos Analysis	02/20/2018
688588	15A	Asbestos Analysis	02/20/2018
688589	15B	Asbestos Analysis	02/20/2018
688590	16A	Asbestos Analysis	02/20/2018
688591	16B	Asbestos Analysis	02/20/2018
688592	17A	Asbestos Analysis	02/20/2018
688593	17B	Asbestos Analysis	02/20/2018
688594	18A	Asbestos Analysis	02/20/2018
688595	18B	Asbestos Analysis	02/20/2018
688596	19A	Asbestos Analysis	02/20/2018
688597	19B	Asbestos Analysis	02/20/2018
688598	20A	Asbestos Analysis	02/20/2018
688599	20B	Asbestos Analysis	02/20/2018
688600	21A	Asbestos Analysis	02/20/2018

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ETC Job: 199862

Report Date : 3/12/2018

Login #	Sample ID	Work Requested	Completed
688601	21B	Asbestos Analysis	02/20/2018
688602	22A	Asbestos Analysis	02/20/2018
688603	22B	Asbestos Analysis	02/20/2018
688604	23A	Asbestos Analysis	02/20/2018
688605	23B	Asbestos Analysis	02/20/2018
688606	24A	Asbestos Analysis	02/20/2018
688607	24B	Asbestos Analysis	02/20/2018
688608	25A	Asbestos Analysis	02/20/2018
688609	25B	Asbestos Analysis	02/20/2018
688610	26A	Asbestos Analysis	02/20/2018
688611	26B	Asbestos Analysis	02/20/2018
688612	27A	Asbestos Analysis	02/20/2018
688613	27B	Asbestos Analysis	02/20/2018

Reviewed by:

Dar mywall

Quality Assurance Coordinator




Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199862
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-303-011
	38900 Huron River Drive	Date Collected :	12/03/2017
	Romulus,MI 48174	Date Received :	12/05/2017
Location :		Date Analyzed :	12/08/2017
	710 Beulah St, Lansing, MI		

Sample I	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634928 1A Front Entry W Analyst: Renee Renauer	House Wrap r	Brown Fibrous Homogenous	85% Cellulose	15% Other	None Detected
634929 1B Back Entry W Analyst: Renee Renauer	House Wrap r	Brown Fibrous Homogenous	85% Cellulose	15% Other	None Detected
634930 2A Front Entry W Analyst: Renee Renauer	Transite r	White/Pink Non-Fibrous Homogenous	2% Cellulose	88% Other	10% Chrysotile
634931 2B Back Entry W Analyst: Renee Renauer	r	Not Analyzed			
634932 3A Front Window Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
634933 3B W Side N Window Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
634934 4A W Side Porch Analyst: Renee Renauel	Asphalt Shingle	Black Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199862
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-303-011
	38900 Huron River Drive	Date Collected :	12/03/2017
	Romulus,MI 48174	Date Received :	12/05/2017
Location :		Date Analyzed :	12/08/2017
	710 Beulah St, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634935 4B E Side Porch Analyst: Renee Renau	Asphalt Shingle er	Black Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
688562 05A 2 E Wall at Floor Analyst: Scott Larabell	Duct Wrap	Grey Fibrous Homogenous	20% Cellulose	55% Other	25% Chrysotile
688563 05B 13 E Wall at Floor Analyst: Scott Larabell		Not Analyzed			
688564 05C 14 W Wall at Floor Analyst: Scott Larabell		Not Analyzed			
688565 06A 1 E Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688566 06B 2 E Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688567 06C 3 E Wall Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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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

		ETC Job :	199862
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-303-011
	38900 Huron River Drive	Date Collected :	02/16/2018
	Romulus,MI 48174	Date Received :	02/19/2018
Location :		Date Analyzed :	02/20/2018
	710 Beulah St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 688568 Grey Plaster 2% Cellulose 98% Other None Detected 06D Non-Fibrous 4 E Wall Homogenous Analyst: Scott Larabell 688569 Grey Plaster 2% Cellulose 98% Other None Detected 06E Non-Fibrous 5 E Wall Homogenous Analyst: Scott Larabell 688570 Grey Plaster 2% Cellulose 98% Other None Detected 06F Non-Fibrous 12 E Wall Homogenous Analyst: Scott Larabell 688571 Grey Plaster 2% Cellulose 98% Other None Detected 06G Non-Fibrous 13 E Wall Homogenous Analyst: Scott Larabell 688572 White Drywall 5% Cellulose 95% Other None Detected 07A Non-Fibrous 4 N Wall Homogenous Analyst: Scott Larabell 688573 White Drywall 5% Cellulose 95% Other None Detected 07B Non-Fibrous 5 N Wall Homogenous Analyst: Scott Larabell 688574 White Ceiling Tile 65% Other None Detected 30% Cellulose 8A Fibrous 5% Fiberglass 3 S Ceiling Homogenous Analyst: Scott Larabell

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199862
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-303-011
	38900 Huron River Drive	Date Collected :	02/16/2018
	Romulus,MI 48174	Date Received :	02/19/2018
ation :		Date Analyzed :	02/20/2018
	710 Beulah St, Lansing, MI	-	

Loc

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688575 8B 3 N Ceiling Analyst: Scott Larabell	Ceiling Tile	White Fibrous Homogenous	40% Cellulose 5% Fiberglass	55% Other	None Detected
688576 9A 3 N Floor Analyst: Scott Larabell	Underlayment	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688577 9B 4 N Floor Analyst: Scott Larabell	Underlayment	Tan Fibrous Homogenous	85% Cellulose	15% Other	None Detected
688578 10A 5 E Floor Analyst: Scott Larabell	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688579 10B 4 E Floor Analyst: Scott Larabell	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688580 11A 12 W Wall Analyst: Scott Larabell	Hard Board	Brown/Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688581 11B 12 E Wall Analyst: Scott Larabell	Hard Board	Brown/Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199862
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	38900 Huron River Drive	Date Collected :	02/16/2018
	Romulus,MI 48174	Date Received :	02/19/2018
Location :		Date Analyzed :	02/20/2018
	710 Beulah St, Lansing, MI	-	

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 688582 Grey Blown Insulation 2% Cellulose 13% Other None Detected 12A Fibrous 85% Mineral wool 15 Ceiling S Homogenous Analyst: Scott Larabell 688583 Grey Blown Insulation 3% Cellulose 17% Other None Detected 12B Fibrous 80% Mineral wool 14 Ceiling S Homogenous Analyst: Scott Larabell 688584 Black Wire Insulation 80% Cellulose 20% Other None Detected 13A Fibrous 13 N Wall Homogenous Analyst: Sarah Poirier 688585 Black Wire Insulation 80% Cellulose 20% Other None Detected 13B Fibrous 11 N Wall Homogenous Analyst: Sarah Poirier 688586 Grey/White 12x12 Floor Tile 2% Cellulose 98% Other None Detected 14A Non-Fibrous 12 N Floor Homogenous Analyst: Scott Larabell 688587 Grey/White 12x12 Floor Tile 2% Cellulose 98% Other None Detected 14B Non-Fibrous 12 S Floor Homogenous Analyst: Scott Larabell 688588 Grey Window Glaze 3% Cellulose 97% Other None Detected 15A Non-Fibrous 1 N Window Homogenous Analyst: Scott Larabell

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199862
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	Romulus,MI 48174	Date Received :	02/19/2018
Location :		Date Analyzed :	02/20/2018
	710 Beulah St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 688589 Grey Window Glaze 2% Cellulose 98% Other None Detected 15B Non-Fibrous 2 W Window Homogenous Analyst: Scott Larabell 688590 Grey **Basement Floor Concrete** 2% Cellulose 98% Other None Detected 16A Non-Fibrous 7 N Floor Homogenous Analyst: Scott Larabell 688591 Grey **Basement Floor Concrete** 2% Cellulose 98% Other None Detected 16B Non-Fibrous 8 N Floor Homogenous Analyst: Scott Larabell 688592 Grey Stack Cement 2% Cellulose 98% Other None Detected 17A Non-Fibrous 7 on the stack Homogenous Analyst: Scott Larabell 688593 Grey Stack Cement 2% Cellulose 98% Other None Detected 17B Non-Fibrous 7 on the stack Homogenous Analyst: Scott Larabell 688594 Grey **Basement Wall Concrete** 2% Cellulose 98% Other None Detected 18A Non-Fibrous 8 E Wall Homogenous Analyst: Scott Larabell 688595 Grey **Basement Wall Concrete** 2% Cellulose 98% Other None Detected 18B Non-Fibrous 9 W Wall Homogenous Analyst: Scott Larabell

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% Asbestos

None Detected

% Non-Fibrous

98% Other

Polarized Light Microscopy Asbestos Analysis Report

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	Romulus,MI 48174	Date Received :	02/19/2018
Location :		Date Analyzed :	02/20/2018
	710 Beulah St, Lansing, MI	-	

% Fibrous

2% Cellulose

SampleDescriptionAppearance688596
19A
7 on the chimney
Analyst: Scott LarabellChimney ConcreteGrey
Non-Fibrous
Homogenous688597
19B
2 on the chimney
Non-Fibrous
Non-Fibrous
Non-Fibrous
Non-Fibrous
Non-Fibrous
Non-Fibrous
Non-Fibrous
Non-Fibrous
Non-Fibrous
Non-Fibrous

688597 19B 7 on the chimney Analyst: Scott Larabell	Chimney Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688598 20A 3 E Window Analyst: Scott Larabell	Window Caulk	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688599 20B 2 W Window Analyst: Scott Larabell	Window Caulk	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688600 21A E Wall Ext Analyst: Scott Larabell	Transite	Brown/White Non-Fibrous Homogenous	15% Cellulose	65% Other	20% Chrysotile
688601 21B W Wall Ext Analyst: Scott Larabell		Not Analyzed			
688602 22A E Wall Ext Analyst: Scott Larabell	House Wrap	Black Fibrous Homogenous	85% Cellulose	15% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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То :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-303-011
	38900 Huron River Drive	Date Collected :	02/16/2018
	Romulus,MI 48174	Date Received :	02/19/2018
Location :		Date Analyzed :	02/20/2018
	710 Beulah St, Lansing, MI		

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 688603 Black House Wrap 90% Cellulose 10% Other None Detected 22B Fibrous W Wall Ext Homogenous Analyst: Scott Larabell 688604 Tan House Wrap 90% Cellulose 10% Other None Detected 23A Fibrous E Wall Ext Homogenous Analyst: Scott Larabell 688605 Tan House Wrap 90% Cellulose 10% Other None Detected 23B Fibrous W Wall Ext Homogenous Analyst: Scott Larabell 688606 Brown House Wrap 85% Cellulose 15% Other None Detected 24A Fibrous E Wall Ext Homogenous Analyst: Scott Larabell 688607 Brown House Wrap 80% Cellulose 20% Other None Detected 24B Fibrous W Wall Ext Homogenous Analyst: Scott Larabell 688608 Grey Shingle Asphalt 2% Cellulose 98% Other None Detected 25A Non-Fibrous NE Roof Ext Homogenous Analyst: Scott Larabell 688609 Grey Shingle Asphalt 2% Cellulose 98% Other None Detected 25B Non-Fibrous NW Roof Ext Homogenous Analyst: Scott Larabell

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Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199862
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-303-011
	38900 Huron River Drive	Date Collected :	02/16/2018
	Romulus,MI 48174	Date Received :	02/19/2018
Location :		Date Analyzed :	02/20/2018
	710 Beulah St, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688610 26A NE Roof Ext Analyst: Scott Larabell	Shingle	Brown Stone Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688611 26B NW Roof Ext Analyst: Scott Larabell	Shingle	Brown Stone Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688612 27A NE Ext Roof Analyst: Scott Larabell	Asphalt Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688613 27B NW Ext Roof Analyst: Scott Larabell	Asphalt Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected



Lab Supervisor/Other Signatory

Henee

Analyst: Renee Renauer

Larah M. Priver

Analyst: Sarah Poirier

Analyst: Scott Larabell

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/M-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

		ETC Job :	199862
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-22-303-011
	38900 Huron River Drive	Date Collected :	02/16/2018
	Romulus,MI 48174	Date Received :	02/19/2018
Location :	710 Beulah St, Lansing, MI	Date Analyzed :	02/20/2018

Sample

Description

Appearance

% Fibrous

% Non-Fibrous

% Asbestos

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

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ENVIF	RONMENTAL TESTING LABORATORIES, INC	
Ł	38900 HURON RIVER DRIVE	
8	ROMULUS, MICHIGAN 48174	

Bulk Asbestos Chain of Custody

	www.2eti.com		ETL Project #: 1998 02
Client:	FTC	Contact: LIV Haverman	Project Location/name:
	270	Phone: (734) 955-6600	16 Beulah ST.
Address:	721 N. Capitol Ave. Suite 3,	Fax: (734) 955-6604	Cansing MI
	Lansing, MI 48906	E-mail:	Client Project #: 199862
Please Prov	vide Results: REmail	□ Fax □ Verbal □ Other	Date Sampled: 12/3/17

Turnaround Time (TAT): CRUSH Came Day 24 hr 48 hr EStandard (3+ days) Other_

PLM Instr (Check all ti	uctions nat apply)
DFLM EPA600/R-93/116, 1993 (Standard method)	□-Stop at 1st Positive -
Point Counting: 400 Points*	Clearly mark Homogenous Group
D PLM Non-Building Material (Dust, Wipe, Tape)	□ Soil or Vermiculite Analysis *
* A defation of the second s	

* Additional charge and turnaround may be required

(734) 955-6600 FAX: (734) 992-2261

Lab ID	Sample ID	Sample Location	Material Description
	OL A-B		
		please see attached s	Jeet
	64	-	and an
	OT-AB		· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·
			10
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hed (Nama(O	manipation):	alle Class	Date Time

Relinquished (Name/Organization):	Jake Glason	12/3/17	S'OU amippin
Received (Name/ETL):	am den	12/5/17	am/pm
Stereoscopical Analysis (Name/ETL):	Kellee K	12.60	am/pm
Sample Login (Name/ETL);	are elfin	12/5/17	am/pm
Analysis (Name/ETL):	ferrel fer	12-10-77	am/pm
QA/QC Review (Name/ETL):	- KA	12/8/17	am/pm
pecial instructions:		Remarks	

Form ETL208: Chain of Custody; Revision A

PDF processed with CutePDF evaluation edition www.CutePDF.com

Page ____ of ____

Revision date 5/7/2015

Asbestos Material Sampling Summary Sheet Miscellaneous materials

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.# non	P02661	Building:	4	Roulat 1			ſ
Material		Delate de l	2	I'M I'M I'M I'M I'M	uate: 12/3	5	
Ъ.	Material Description	Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bidg	Quantity	Picture #
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			8				

2 samples

2	Romulus, Michiga (734) 955-6600 Fax: (734) 992-226 www.2eti.com	1 1	Bulk Asbestos Chain of Custody
Client:		Contract	EIL Project #: 1998/02
L	ETC	Dhonet	Project Location/name:
Address:	721 N C	Fione: (734) 955-6600	110 BEALAH
	Lansing, MI 48906	Fal: (734) 955-6604	GADSING, MI 4
Please Prov	ide Results: n Email	Fax D Vorbel Out	Client Project #: 199817
		U verbal o Other	Date Sampled: 2 - 110 - 10
T	urnaround Time (TAT):	RUSH Same Day 24 br	148 hr Distorted in
		PI M Instruction	Other
P MEDAG	00/0 00// 10	(Check all that apply)	
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	ung: 400 Points*		Clearly mark U
Additional share	building Material (Dust, W	ipe, Tape)	
- autorial charg	e and turnaround may be red	Juired	a con a vermiculite Analysis *
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	05000	sample Location	Material Description
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	ATAB		
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Dical Analysis (1)	INUTICA	Stratto	219.18 amion
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view (Name/ETL):	amile	Amailai	220 IS am/pm
tructions:		(I	12-00-1X 1/2:49 am/pm
		~	Remarks

Form ETL206: Chain of Custody; Revision A

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

Revision date 5/7/2015

194121	22	Building: N/2 A L		
Material no.	Material Description	Friable (F) Sample	Date: 2/16/18	
OS Description	Duct WRAP (08800	(NF) Letter Sample Location	Material Located throughout bidg Please List all Rooms) Quantity P	Picture #
Materiai: Description	# gru Su	1 B 13 E wall out flect c 14 h) wall out flect	2/13/ 44 20 SE	
Material: Description				1
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Asbestos Material Sampling Summary Shee

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	1990127				10	1.
	1 0941	Building:	740 Roulit			
Material no,	Material Description	Friable (F) /	Samole	Date: 2/16	118	
T	Material: A	NON-F FIADIE (NF)	Letter Sample Location	Material Located throughout bidg Q	uantity Pict	#
60	Description DF4 Wall	1.4	A UN LUM 1,98570	(Pitease List all Rooms)		
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	Description R. 124M / 1.	N	A RUZ KU WANN FROM		Z	T
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	Description	1	A 15 Carling 5 CRN		26	Τ
0	Material: L. P.S	-	B 14 Ca: (1-16 5 5 5 8	Paraget 2	0	
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11	Material: 10 2 10 mil 11	1	B II N Null CST	throughout 20		1
-	Description CAL + Los + 4/2	2	A P. N FUNT COL	15	4	7
2	Material: Windows 1	:	B 12 S Floor CR1	12	2.1	
1	Description Charle	2	A IN HIMAN POST	14	X	1
1 J	Material: P		B 2 W 1.15 day 200	14	5	
9	Description Deservent Flevel Concret	5	A D N PLUE COD	a Ctivn	M	-
1	6440		B BS N Plar	18 6/8/1	0	-
			140	2	N	1
			2 samples	C4 9	10	
				10 1	2	

Revision date 5/7/2015

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Job #-	1201 211 -				
	1 21 21 2	Building:	Din P. 1 .		
Material no.	Material Descrintion	Friable (F)/	Date:	2/16/1	06
		Non-Friable (NF)	Sample Sample Location Materi Letter Sample Location throug	al Located hout bidg Ouantity	Diction
6	Material: Sheek Cemand	14		st all Rooms)	# almos
C	Law B	2	B) 1) 11 11 5406 (080593)) 14	
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6	Material: Chim non Cancree & Buck	1.	A Mar IL II. SUS	AD .	2
	Material: 115. 1 1	2	B M on the chim rey 5410 T	7 120	
8	Description wind Carle	2	A #3 E wholey, CCR 10	45	
-0	Material: +reas hab +		B 32W Window (7) (7)	10,00	
7	Description Booth - in It.	2	A E Wall ext 1000 .		1
22	Material: Heuse who.0	-	" - will ext (a() ex		
	Description Bluck	A	a to have and loog on	14	
23	Material: Howse Wry	1	A C Will CAF (CB3)	7	
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7-4	Description June 10 RAD	1	A B I I I AV LOS	_	
	Material - Bedwyn		B LU MININ CAT 10UU CH	t	
R	Description Shindle Nah pull	N	A NE ROOF OUL INS	-	
10	Material: Shock	K	B Ny Roof ent 1000 et	4	
2	Description 0 Parts 1	2	A NE ROL PAL (1)	5	
1	and stone		B NW Row CHI (01) CHI	e e	
			2 samples	29	D

aterial Sampling Summary Sheet scellaneous materials	
Mate Misc	
Asbestos	

Revision date 5/7/2015

Job #:	10.4 CI -			Is materials	VEVISIO	on date 5/7/201
	1 00121	Building:	DIM	0 1		
Material no.	Material Description	Friable (F) /	Sample	Becular	Date: 2/16/	X
1	Material: A.2.1. 0. 11 42	(NF)	Letter	Sample Location	Material Located throughout bldg Ouantie	
(iA	Description Handwith Shing le	3	A 8	E Cht Dour 1001	(Please List all Rooms)	ricture #
	Material:	-	8	N EVL D. C. 1000	det	
*	Description		A	50 100	Peret	
	Material:		20			
	Description		A			
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Γ	Material:		8			
1	Description		4			
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			8			Γ
			2 sample	51	4	40
					a i	16

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: _ Wode Wiltze Grab be-

Jake Gleason & Wade Wiltse, Michigan Certified Asbestos Inspector (s) Michigan Accreditation Number (s) A-49991

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT *Prepared For:*

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906Parcel:33-01-01-21-428-035House No:621 Baker St 1, Lansing, MI 48910Date Inspected:12/20/2017Inspected By:Wade WiltseInspectors State Card #A-51051

Building Information

No. Stories	2	Garage	No Garage
Square Footage	1518 SF	Garage Square Footage	NA
Basement Square Footage	756 SF	Garage Siding	NA
Siding	Vinyl	Garage Color	NA
Color	Light Blue	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			





38900 West Huron River Drive, Romulus, MI 48174 PHONE: (734) 955-6600 FAX: (734) 955-6604 WEBSITE: www.2etc.com

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-21-428-035
House No.	621 Baker St 1, Lansing, MI 48910
Date Inspected:	12/20/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Heater	1	Room 17
TV Screens, Electronics	8	Room 2, 4, 12, 15, 16
Paint Cans	2 (1 gallon)	Room 2, 17
Smoke Detectors	2	Room3, 11

TIRE(s) REPORT

Material

Quantity & Units

Location

None observed above household quantities

Parcel:

33-01-01-21-428-035

House No.

Date Inspected:

621 Baker St 1, Lansing, MI 48910

12/20/2017

TABLE 2 SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Plaster, grey	Throughout	8258 SF	YES
2	F	Skim coat, white	Room 13	480 SF	No
3	F	Texture, white	Throughout	7553 SF	No
4	F	Duct wrap, grey	Room 2, 3, 10	342 SF	YES
5	F	Drywall, white	Room 3	120 SF	No
6	NF	Mud, white	Room 3	40 SF	No
7	NF	Tape, white	Room 3	40 SF	No
8	NF	Tape, tape	Room 6	50 SF	No
9	NF	Mud, white	Room 6	50 SF	No
10	NF	12x12 Peel and stick, green	Room 5	48 SF	No
11	NF	12x12 Floor tile, white	Room 5	48 SF	No
12	NF	Mastic, black	Room 5	48 SF	No
13	NF	Linoleum, white	Room 6	273 SF	No
14	F	Blown-in-insulation, brown	Room 18	900 SF	No
15	NF	Linoleum, white	Room 16	210 SF	No
16	NF	Linoleum, cream	Room 14	54 SF	No
17	NF	Concrete wall, grey	Room 10, 17	770 SF	No
18	NF	Mortar, grey	Room 10, 17	700 SF	No
19	NF	Concrete floor, grey	Room 10, 17	756 SF	No
20	NF	Brick, read/peach	Room 10, 17 (chimney)	428 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 <u>estimates only</u>. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Parcel:

House No.

Date Inspected:

33-01-01-21-428-035

621 Baker St 1, Lansing, MI 48910

12/20/2017

TABLE 2 SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
21	NF	Mortar, grey	Room 10, 17 (chimney)	300 SF	No
22	NF	House wrap, tan	Exterior	6004 SF	No
23	NF	Transite, white	Exterior	6004 SF	YES
24	NF	Fiberboard, black	Exterior	6004 SF	No
25	NF	Foam paper, tan	Exterior	6004 SF	No
26	NF	Window glaze, white	Exterior	21 windows	No
27	NF	Shingle, black/white	Exterior	6200 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 <u>estimates only</u>. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing



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

Sample Location

Ingham County Land Bank 199854



621-02C

A 621-01E

Room 12



621-02B

Room 13

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

> Ingham County Land Bank 199854



Sample Location

Basement



Attic

A



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

Sample Location

Ingham County Land Bank 199854 Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel:	33-01-01-21-428-035
House No.	621 Baker St 1, Lansing, MI 48910
Date Inspected:	12/20/2017



Front of house/property



Back of house/property



Side #1 of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-21-428-035
House No.	621 Baker St 1, Lansing, MI 48910
Date Inspected:	12/20/2017



Hot Water Heater



TV, Electronics



Paint Cans

Smoke Detector

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-21-428-035
House No.	621 Baker St 1, Lansing, MI 48910
Date Inspected:	12/20/2017





Plaster

Duct Wrap



Transite

Attachment:

Laboratory Analytical Results

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

To :	Environmental Testing And Consulting Inc.	Project Location :		
	38900 Huron River Drive	621 Baker St 1, Lansing, MI		
	Romulus, MI 48174			
Attention :				

Client Project : 33-01-01-21-428-035

ETC Job : 199854 Report Date : 12/26/2017

Login #	Sample ID	Work Requested	Completed
643068	01A	Asbestos Analysis	12/26/2017
643069	01B	Asbestos Analysis	12/26/2017
643070	01C	Asbestos Analysis	12/26/2017
643071	01D	Asbestos Analysis	12/26/2017
643072	01E	Asbestos Analysis	12/26/2017
643073	01F	Asbestos Analysis	12/26/2017
643074	01G	Asbestos Analysis	12/26/2017
643075	02A	Asbestos Analysis	12/26/2017
643076	02B	Asbestos Analysis	12/26/2017
643077	02C	Asbestos Analysis	12/26/2017
643078	03A	Asbestos Analysis	12/26/2017
643079	03B	Asbestos Analysis	12/26/2017
643080	03C	Asbestos Analysis	12/26/2017
643081	03D	Asbestos Analysis	12/26/2017
643082	03E	Asbestos Analysis	12/26/2017
643083	03F	Asbestos Analysis	12/26/2017
643084	03G	Asbestos Analysis	12/26/2017
643085	04A	Asbestos Analysis	12/26/2017
643086	04B	Asbestos Analysis	12/26/2017
643087	04C	Asbestos Analysis	12/26/2017

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ETC Job : 199854

Report Date : 12/26/2017

Login #	Sample ID	Work Requested	Completed
643088	05A	Asbestos Analysis	12/26/2017
643089	05B	Asbestos Analysis	12/26/2017
643090	06A	Asbestos Analysis	12/26/2017
643091	06B	Asbestos Analysis	12/26/2017
643092	07A	Asbestos Analysis	12/26/2017
643093	07B	Asbestos Analysis	12/26/2017
643094	08A	Asbestos Analysis	12/26/2017
643095	08B	Asbestos Analysis	12/26/2017
643096	09A	Asbestos Analysis	12/26/2017
643097	09B	Asbestos Analysis	12/26/2017
643098	10A	Asbestos Analysis	12/26/2017
643099	10B	Asbestos Analysis	12/26/2017
643100	11A	Asbestos Analysis	12/26/2017
643101	11B	Asbestos Analysis	12/26/2017
643102	12A	Asbestos Analysis	12/26/2017
643103	12B	Asbestos Analysis	12/26/2017
643104	13A	Asbestos Analysis	12/26/2017
643105	13B	Asbestos Analysis	12/26/2017
643106	14A	Asbestos Analysis	12/26/2017
643107	14B	Asbestos Analysis	12/26/2017
643108	15A	Asbestos Analysis	12/26/2017
643109	15B	Asbestos Analysis	12/26/2017
643110	16A	Asbestos Analysis	12/26/2017
643111	16B	Asbestos Analysis	12/26/2017
643112	17A	Asbestos Analysis	12/26/2017
643113	17B	Asbestos Analysis	12/26/2017
643114	18A	Asbestos Analysis	12/26/2017

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ETC Job: 199854

Report Date : 12/26/2017

Login #	Sample ID	Work Requested	Completed
643115	18B	Asbestos Analysis	12/26/2017
643116	19A	Asbestos Analysis	12/26/2017
643117	19B	Asbestos Analysis	12/26/2017
643118	20A	Asbestos Analysis	12/26/2017
643119	20B	Asbestos Analysis	12/26/2017
643120	21A	Asbestos Analysis	12/26/2017
643121	21B	Asbestos Analysis	12/26/2017
643122	22A	Asbestos Analysis	12/26/2017
643123	22B	Asbestos Analysis	12/26/2017
643124	23A	Asbestos Analysis	12/26/2017
643125	23B	Asbestos Analysis	12/26/2017
643126	24A	Asbestos Analysis	12/26/2017
643127	24B	Asbestos Analysis	12/26/2017
643128	25A	Asbestos Analysis	12/26/2017
643129	25B	Asbestos Analysis	12/26/2017
643130	26A	Asbestos Analysis	12/26/2017
643131	26B	Asbestos Analysis	12/26/2017
643132	27A	Asbestos Analysis	12/26/2017
643133	27B	Asbestos Analysis	12/26/2017

Reviewed by:

Samzwall

Quality Assurance Coordinator



Lo

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199854
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-21-428-035
	38900 Huron River Drive	Date Collected :	12/20/2017
	Romulus,MI 48174	Date Received :	12/22/2017
cation :		Date Analyzed :	12/26/2017
	621 Baker St 1, Lansing, MI	-	

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos 643068 Grey Plaster 2% Cellulose 95.25% Other PC 2.75% Chrysotile 01A Non-Fibrous RM2 W Wall Homogenous Analyst: Scott Larabell 643069 Not Analyzed 01B RM3 W Wall Analyst: Scott Larabell 643070 Not Analyzed 01C RM3 N Wall Analyst: Scott Larabell 643071 Not Analyzed 01D RM4 N Wall Analyst: Scott Larabell 643072 Not Analyzed 01E **RM12** Ceiling Center Analyst: Scott Larabell 643073 Not Analyzed 01F RM11 Ceiling Center Analyst: Scott Larabell 643074 Not Analyzed 01G RM5 N Wall Analyst: Scott Larabell





Polarized Light Microscopy Asbestos Analysis Report

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	Romulus,MI 48174	Date Received :	12/22/2017
Location :		Date Analyzed :	12/26/2017
	621 Baker St 1, Lansing, MI		

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643075 02A RM13 N Wall Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643076 02B RM13 E Wall Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643077 02C RM13 W Wall Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643078 03A RM2 W Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643079 03B RM3 W Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643080 03C RM3 N Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643081 03D RM11 E Wall Analvst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



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

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To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-21-428-035
	38900 Huron River Drive	Date Collected :	12/20/2017
	Romulus,MI 48174	Date Received :	12/22/2017
Location :		Date Analyzed :	12/26/2017
	621 Baker St 1, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643082 03E RM12 N Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643083 03F RM16 N Wall Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643084 03G RM15 Center Ceiling Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643085 04A RM3 W Duct Analyst: Scott Larabell	Duct Wrap	Grey Fibrous Homogenous	15% Cellulose	65% Other	20% Chrysotile
643086 04B RM2 E Duct Analyst: Scott Larabell		Not Analyzed			
643087 04C RM9 Ceiling Duct Analyst: Scott Larabell		Not Analyzed			
643088 05A RM3 E Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected





Polarized Light Microscopy Asbestos Analysis Report

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	Romulus,MI 48174	Date Received :	12/22/2017
Location :		Date Analyzed :	12/26/2017
	621 Baker St 1, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643089 05B RM3 E Wall Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643090 06A RM3 E Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643091 06B RM3 E Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643092 07A RM3 E Wall Analyst: Scott Larabell	Таре	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
643093 07B RM3 E Wall Analyst: Scott Larabell	Таре	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643094 08A RM6 W Wall Analyst: Scott Larabell	Таре	White Fibrous Homogenous	2% Cellulose 85% Fiberglass	13% Other	None Detected
643095 08B RM6 W Wall Analyst: Scott Larabell	Таре	White Fibrous Homogenous	3% Cellulose 80% Fiberglass	17% Other	None Detected





Polarized Light Microscopy Asbestos Analysis Report

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To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-21-428-035
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	Romulus,MI 48174	Date Received :	12/22/2017
Location :		Date Analyzed :	12/26/2017
	621 Baker St 1, Lansing, MI	2	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643096 09A RM6 W Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643097 09B RM6 W Wall Analyst: Scott Larabell	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643098 10A RM5 N Floor Analyst: Scott Larabell	12x12 Peel & Stick	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643099 10B RM5 S Floor Analyst: Scott Larabell	12x12 Peel & Stick	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643100 11A RM5 N Floor Analyst: Scott Larabell	12x12 Floor Tile	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643101 11B RM5 S Wall Analyst: Scott Larabell	12x12 Floor Tile	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643102 12A RM5 N Wall Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



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Polarized Light Microscopy Asbestos Analysis Report

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To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-21-428-035
	38900 Huron River Drive	Date Collected :	12/20/2017
	Romulus,MI 48174	Date Received :	12/22/2017
Location :		Date Analyzed :	12/26/2017
	621 Baker St 1, Lansing, MI	_	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643103 12B RM5 S Wall Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643104 13A E Floor RM6 Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643105 13B S Floor RM6 Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
643106 14A Attic Floor Center Analyst: Scott Larabell	Blown-in Insulation	Brown Fibrous Homogenous	3% Cellulose 80% Mineral wool	17% Other	None Detected
643107 14B Attic Floor Center Analyst: Scott Larabell	Blown-in Insulation	Brown Fibrous Homogenous	5% Cellulose 75% Mineral wool	20% Other	None Detected
643108 15A RM16 E Floor Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643109 15B RM16 S Floor Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected





Polarized Light Microscopy Asbestos Analysis Report

		ETC Job :	199854
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-21-428-035
	38900 Huron River Drive	Date Collected :	12/20/2017
	Romulus,MI 48174	Date Received :	12/22/2017
Location :		Date Analyzed :	12/26/2017
	621 Baker St 1, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643110 16A RM14 E Floor Analyst: Scott Larabell	Linoleum	Cream Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643111 16B RM14 W Floor Analyst: Scott Larabell	Linoleum	Cream Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643112 17A RM10 S Wall Analyst: Scott Larabell	Concrete Wall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643113 17B RM17 W Wall Analyst: Scott Larabell	Concrete Wall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643114 18A RM10 S Wall Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643115 18B RM17 W Wall Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643116 19A RM10 Center Floor Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected





Polarized Light Microscopy Asbestos Analysis Report

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	Romulus,MI 48174	Date Received :	12/22/2017
Location :		Date Analyzed :	12/26/2017
	621 Baker St 1, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643117 19B RM17 Center Floor Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643118 20A RM17 Chimney Analyst: Scott Larabell	Brick	Red/Peach Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643119 20B RM10 N Wall Analyst: Scott Larabell	Brick	Red/Peach Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643120 21A RM17 Chimney Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643121 21B RM10 N Wall Analyst: Scott Larabell	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643122 22A RM1 N Wall Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643123 22B RM7 S Wall Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	75% Cellulose	25% Other	None Detected





Polarized Light Microscopy Asbestos Analysis Report

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	Romulus,MI 48174	Date Received :	12/22/2017
Location :		Date Analyzed :	12/26/2017
	621 Baker St 1, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643124 23A W Side Ext House Analyst: Scott Larabell	Transite	White Non-Fibrous Homogenous	10% Cellulose	60% Other	30% Chrysotile
643125 23B N Side Ext House Analyst: Scott Larabell		Not Analyzed			
643126 24A W Side Ext House Analyst: Scott Larabell	Fiberboard	Black Fibrous Homogenous	75% Cellulose	25% Other	None Detected
643127 24B N Side Ext House Analyst: Scott Larabell	Fiberboard	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
643128 25A W Side Ext House Analyst: Scott Larabell	Foam Paper	Tan Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643129 25B N Side Ext House Analyst: Scott Larabell	Foam Paper	Tan Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643130 26A W Window Ext Analyst: Scott Larabell	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected





Polarized Light Microscopy Asbestos Analysis Report

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	38900 Huron River Drive	Date Collected :	12/20/2017
	Romulus,MI 48174	Date Received :	12/22/2017
Location :		Date Analyzed :	12/26/2017
	621 Baker St 1, Lansing, MI	-	

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643131 26B W Window Ext Analyst: Scott Larabell	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643132 27A N Roof Ext House Analyst: Scott Larabell	Shingle	Black/White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
643133 27B S Roof Ext House Analyst: Scott Larabell	Shingle	Black/White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected



Lab Supervisor/Other Signatory

Rall Pall

Analyst: Scott Larabell

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

	NMENTAL TESTING 38900 Huron Rive Romulus, Michigan (734) 955-6600 Fax: (734) 992-226 www.2eil.com	LABORATORIES, INC R DRIVE 48174	Bulk Asbestos Chain of Custody
Client:	ETC	Contact:	Project Location/name:
	1.0	Phone: (734) 955-6600	1.21 Bakes
Address:	721 N. Capitol Ave, Suite 3,	Fax: (734) 955-6604	7 671 -
	Lansing, MI 48906	E-mail: results@2etc.com	Client Project #: 199854
Please Pro	vide Results: MEmail	□ Fax □ Verbal □ Other	Date Sampled: 12/20/17
	Turnaround Time (TAT):	🗆 RUSH 🛛 Same Day 🗆 24 hr 🗔 48 hr	∯ Standard (3+ days) □ Other
		PLM Instructions (Check all that apply)	
文 PLM EPA	600/R-93/116, 1993 (Star	ndard method)	Stop at 1st Positive -
D Point Cou	unting: 400 Points*		Clearly mark Homogenous Group
D PLM Nor	n-Building Material (Dust, V	Vipe, Tape)	□ Soil or Vermiculite Anatysis *
THE REPORT OF THE PARTY OF THE			

* Additional charge and turnaround may be required

Lab ID	San	nple ID	Sample Location	Material Description
	OI ME	BebefG		
	02 A	BC		
	03 A	BCDefG		
	OHAE	36		
	05	AB		
	20 4	AB		

	Date	Time
Relinquished (Name/Organization): Worde Willo	12/20/17	movine
Received (Name/ETL):	12/22/17	12 am/dm
Stereoscopical Analysis (Name/ETL):	12-25-17	am/pm
Semple Login (Name/ETL): BATTLEMUL ADUS	12/22/17	am/pm
Analysis (Name/ETL):	12-26-17	am/pm
QA/QC Review (Name/ETL): DUULUUUUUUUU	12.26.17	am/pm.
Special Instructions:	Remarks	
Please count any thing less 3%		

			Sur	facing materials			TOTICO
Job #:	199854	Building	: 621	Bukorst	Det. 10 1 2	1.1	ſ
Metadol N				12 DOLD	nale: 1 2 1 2 0	41/0	
no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg	Quantity	Picture #
	Material: plaster		<		(ricase List all Kooms)		
10	Gert	<i>S</i> C		Bu 3 west wall 1308 Bu 3 west wall 060 Bu 3 nuth wall 070 Buy 12 rolling with 071	Thoughout	\$5.28 35	42
	Material: Kin Cont		400	Pay 11 coiling center 073 Pen 5 rorth wall 074		>	
50	white	N F	tau	Paris cast wall 076 Paris cast wall 076 Paris wast wall 077	13	Ogh	er.
	Material: Texture					SF	
3	white	5t	AWJO	Save as old 078 Save as 013 079 Save as 01C 080 Amil Cast wall 09	Throughout	23	t.
			JUUO	Rn 12 north wall 08		y'se	4

Asbestos Material Sampling Summary Sheet

Revision date 5/7/2015

1000 - <5000 = 5 samples

<1000 SF = 3 samples

Sheet	erials
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:# qor	104 821		1				
		Building:	6	el Baker St	Date: [7]	41104	
naterial no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bloo	Quantitu	e tra
	Material: Duct Wrop		V		(Please List all Rooms)	Automa	Picture #
50	Description	Ц		Par 2 east duct lough 86	10, 2, 3	325	h
	Materiai:		u	Kmg ceiling duct 087		5	
	Description						
	Material:				-		
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	Description						
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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

2 36 Picture # S 5N 2 29 20 m m 0 M N 40 AS 40 So Quantity 273 25 900 N 5 205 48 48 20 eastwall Material Located throughout bldg (Please List all Rooms) Past wall Atte 2 wall of them 5 west 1 9 4mo 6 3 3 5 Date: 0 de la A D 9 2X UO 00 C 2 2 ð Center J cert well loy3 center Pomlo 0 South tloor 1 von Run north floor Sample Location west wal vest wal Aloor 084 41000 080 104 San us 103 Sare as 050 Floor tona Some as 053 Baker St Sare as OSA Sol mans FLOOL Same as 10 A Swe as USA 3 SB 3 年七つ South 9 Im 6 Same m A++7 M Swy Save east ter t Some S 3 3 d Sample 4 -0 4 00 7 -4 8 4 -4 9 A 9 4 20 × 9 -4 Building: SP Friable (F) / Non-Friable (NF) NF ST 55 32 よう Bu 2F よう 3 selecter Flour Tile R Material Description 2 S Cinoleur white Lmeg 21221 1/mmm/ ships 12412 white in hi Mashe white White Whike Blown green brach Tupe pund pur Tape 24 20 Description Material: Description Description Material: Material: Material: Description Material: Material: Description Description Material: Description Description Material: Description Material: Description 99 Material: Job #: Material 5 2 9 3 to 5, 20 1 3 9 ou. ſ 0 0

2 samples

Asbestos Material Sampling Summary Sheet Miscellaneous materials

02 Picture # ç Y 1 50 02 9 5 3 rt 5 5 044 4 Sf Quantity 8tr 428 St 300 210 the 1009 SF 6004 5 3 Material Located throughout bidg (Please List all Rooms) Ru 175 aution ad Calo rortunell Colt southwall 10,12 Pur 7 south Par Longerth 10/17 SUUNG 2 40024 erin o Rul north 5 F161 9 していると イヤマ Date: y'd 0 0 26 20 00 Q ζ L à 0 0 2 C 0 \mathbf{C} Muiths ide ext house hours, FLOOL floor Hold + Lou - Cou center floor South Floor Certe Flour northural Save as 1000 173 arest cura 11 Sample Location South wall Man 7 South wall north wall ext chinny 2 17A 233 Kerry as 20 B Same as 20A 4500 Sove as 2 A + 3 West side Balders Some as f1 17 0142 2410 Pu 10 Same Rult Rm 16 Ru 17 Sarl Par 19 Build Ru16 Ru 621 Sample 7 90 7 90 A щ 7 20 4 9 A 0 8 8 7 -80 A 7 4 Bullding: Friable (F) / Non-Friable (NF) 42 5t 5t2 40 2F 4N t 5t SF よう 4 2 10012 unite Of dam ontet wall Linstens www. Material Description Material: Linoleur Herboard Convete red / peach Vansite 525 Ceer blach 425 cunite Morter gez DUX Norter 526 Set Material: Brich 99854 Material: Description Material: Material: Material: Material: Description Material: Description Description Description Description Description Material: Description Description Material: Description 32 Job #: Material 9 5 Se 4 0 no. 0 2 5 20 2

2 samples

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Picture # 37 39 3 1 Quantity UNITS 6007 Sr 6200 02 2 Material Locafed throughout bidg (Please List all Rooms) house PKt Wirdou N Swon ナンマ txt Date: ext house 132 Salsha d 202 north roof ext house) 5 ex t 1×2 Sample Location west window wolon 730 Soulers 23A South ref Buler St Some as Lest 621 Sample A 9 7 9 4 90 4 0 4 8 7 9 4 8 8 A 9 00 4 7 Building: Friable (F) / Non-Friable (NF) 5t 4N NF O/adde /white Material Description Material: FOON Paper word Shingle SUNA blach 854 SJ Description Material: Material: 66 Material: Description Description Material: Material: Description Description Description Description Material: Material: Description Description Description Material: Material: 192 57 Job #: Material ŋ. 3

2 samples

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

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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.

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