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March 20, 2024

Mr. Michael Andrick  
Ingham County Land Bank  
3024 Turner St.  
Lansing, MI 48906

**RE: *Asbestos Containing Material and Hazardous Materials Inspection  
421 Detroit St. Lansing, MI 48912  
Parcel ID: 33-21-01-14-452-005***

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 421 Detroit St. Lansing, Michigan (Subject Property). This inspection was completed at the request of the Ingham County Land Bank to comply with the United States Environmental Protection Agency (USEPA) requirements for demolition and renovation set forth under the National Emissions Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Part 61). This inspection was also completed to comply with the Occupational Safety and Health Administration (OSHA) Asbestos Standards for Construction (29 CFR 1926.1101) which limits employee exposure to asbestos.

### **SUBJECT PROPERTY**

The Subject Property is comprised of a .017 acre residential parcel which contains a residential building (the Building) constructed in 1920. The Building was constructed on a concrete basement with two aboveground floors. The exterior walls of the Building were finished with vinyl siding over wood while the roof was sealed with asphalt shingles. The Building can be further divided into a living room, kitchen, bathroom, and two bedrooms on the first floor while the second floor contains one open room.

### **VISUAL INSPECTION AND SAMPLING**

#### **Asbestos Containing Materials Inspection**

Darrell DeMasters of Red Cedar Consulting (Red Cedar), accredited State Of Michigan/EPA Asbestos Building Inspector (Accreditation Number A31159) who completed training per the Michigan Asbestos Workers Accreditation Act 440, completed an inspection of the Subject Property on February 20, 2024 for suspected asbestos containing building materials.

This inspection, and subsequent sample collection was completed in accordance with the USEPA Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763) assessment and sampling protocol.

During the completion of the inspection, each area of the Subject Property was visually inspected for asbestos containing building materials (ACBM). Following the completion of the visual inspection, Red Cedar staff identified each suspect area of friable and non-friable ACBM and sorted them into one of three homogenous categories for sampling purposes. AHERA defines friable as a material that when dry, may be crumbled, pulverized, or reduced to powder by hand pressure. A homogenous area is defined by OSHA as an area of surfacing, thermal system insulation (TSI) or miscellaneous material that is uniform in color and texture. Surfacing materials are most commonly found in sprayed-on, troweled-on or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members. TSI refers to materials applied to pipes, fittings, boilers, ductwork, or other components to prevent heat loss or gain, or condensation. Any material that does not fall under the surfacing or TSI category, such as floor tile, drywall, and acoustical ceiling tile are placed into the miscellaneous materials category.

Following the completion of the visual inspection, Red Cedar staff identified the following materials as suspect ACBM:

- Glazing
- Asphalt Shingle
- Concrete
- Vapor Barrier
- Flashing
- Flooring
- 12"x12" Ceiling Tile
- Glue Pods
- Fiberboard
- 9"x9" Vinyl Floor Tile
- Drywall
- Plaster
- Textured Surfacing

Red Cedar staff collected forty-one samples of suspect ACBM separated into seventeen distinct homogenous groups for laboratory analysis. Samples were collected and submitted to APEX Research Inc. Laboratories (APEX) (Accreditation Number 102118-0) for laboratory analysis. Analysis was completed utilizing polarized light microscopy (PLM) which is the Environmental Protection Agency (EPA) approved method for analysis of bulk materials for asbestos. PLM analysis completed pursuant to method (EPA 600/M4-82-020) identifies asbestos fiber bundles by the visual properties displayed when the sample is treated with various dispersion staining liquids. The laboratory report completed following the sample analysis indicates if asbestos is present, and at what percentage along with a description and percentage of other fibrous and non-fibrous materials and sample color. Chain-of-custody documentation was followed from sample collection through shipping and receiving of the samples at the designated laboratory. The documentation assures that samples will meet the quality assurance/quality control measures defined by AHERA. The laboratory analytical report prepared by APEX for the forty-one samples is included as Attachment A.

## **Hazardous Materials Inspection**

On February 20, 2024, the Subject Property was also inspected for the presence of hazardous materials which include but are not limited to polychlorinated biphenyls (PCBs) and potential mercury containing equipment and any items or containers that may contain or be classified as a hazardous or regulated material. Each material, if identified, was documented along with the approximate location. Any materials identified as hazardous are included in Table 1.

## **INSPECTION RESULTS AND RECOMMENDATIONS**

During the completion of the asbestos inspection, forty-one samples of suspect ACM were collected and are documented in Table 2 along with the Red Cedar sample number, description, friability, material type, ACM classification, sample location, material quantity and laboratory analytical results. A Site Diagram was prepared which provides the general building layout and sample locations and is included as Attachment B. Photos of each different type of ACM identified during this inspection are included in Attachment C and copies of the Asbestos Inspectors certifications are included as Attachment D.

ACM, as defined by the USEPA NESHAP is “any material containing more than 1 percent asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763 Section 1, Polarized Light Microscopy”.

Friable ACM is defined by NESHAP as any material containing more than 1 percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Friable ACM is a concern due to the ease of unintentionally disturbing the ACM which may result in “visible emissions” which is known as a Fiber Release Episode.

Non-friable asbestos-containing material is defined as “material containing more than 1 percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM’s are separated into Category I and Category II ACM. Category I ACM is any asbestos containing packing’s, gaskets, resilient floor coverings (vinyl floor tile and linoleum are examples of these) and asphalt roofing products. Category II ACM is stated by NESHAP as any material excluding Category I non-friable ACM such as drywall, plaster or fiberboard insulation.

### **Presumed Asbestos Containing Material**

Presumed Asbestos Containing Materials (PACM) are suspect surfacing, TSI and miscellaneous materials found in buildings constructed prior to 1980 which are classified as and due to the age of the structure, are assumed to be ACM and do not require sample collection and analysis. OSHA dictates that PACM may be “rebutted” following a complete inspection pursuant to AHERA protocol.

The HVAC Duct Wrap located in the Building was classified as PACM due to the age of the structure and samples were not collected.

Table 3 lists the location, material description, friability, condition, material type (surfacing, thermal or miscellaneous) and approximate quantity of all PACM documented at the Subject Property.

Table 4 provides a summary all ACM documented at the Subject Property which includes the material location, description, and approximate quantity.

### **Friable ACM's**

Duct Wrap identified in the building in conjunction with the forced air heating system is classified as friable ACM. The visual assessment to quantify the extent of this material identified HVAC Duct Wrap at the following locations within the basement, first and second floors:

- Basement (Tape on Ductwork, 25 sq. ft.)
- Living/Kitchen (1 register, 15 sq. ft.)

### **Category I ACM**

Two types of resilient floor covering (Kitchen Multilayered Flooring and 9"x9" Brown Vinyl Floor Tile and Mastic) located within the kitchen, NE bedroom and stairwell were found to contain up to 10% Chrysotile asbestos. The assessment to quantify the extent of this material identified approximately 317 sq. ft. of this material within the Building.

### **Category II ACM**

Plaster samples, collected from the Living Room, NW Bedroom, and Kitchen were each found to contain up to 2% asbestos following analysis. The assessment to quantify the extent of this material identified approximately 2,592 sq. ft. of plaster within the Building.

## **RECOMMENDATIONS**

### **Asbestos Containing Materials**

HVAC material identified in the Building system and listed below is classified as friable ACM and should be removed prior to any renovation/demolition activities.

- Basement (Tape on Ductwork, 25 sq. ft.)
- Living/Kitchen (1 register, 15 sq. ft.)

Plaster identified on the interior of the Building must be abated prior to completion of any renovation/demolition activities at the Subject Property. Any Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of renovation or demolition operations must be properly abated.

The Category I resilient floor coverings (Kitchen Multilayered Flooring and 9"x9" Brown Vinyl Floor Tile and Mastic) are non-friable ACM's that may be left in place as long as the demolition/renovation activities are completed following the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) which limits employee exposure to asbestos.

Please note: The location of samples obtained during this inspection were in a random fashion and areas that were not identified during this inspection may be damaged or have become damaged since the inspection was completed. If Category I or Category II friable materials are discovered prior to or during the demolition/renovation process, these materials must be abated prior to commencement of any demolition/renovation activities at the Subject Property.

Project No.: 19-1159  
Ingham County Land Bank  
Parcel ID: 33-21-01-14-452-005

## **Hazardous Materials**

Hazardous Materials identified at the Subject Property and documented in Table 1 which require proper removal and disposal consist of the following items:

- Thermostat (1)
- Smoke Detector (1)
- 5 Gallon Container Misc. Paint (3)

## **REGULATORY REQUIREMENTS**

A Notification of intent to Renovate/Demolish form must be filed with the Michigan Department of Environmental Quality- Air Quality Division at least 10 working days prior to any renovation or demolition activities at a site.

The Notification of Intent to Renovate/Demolish form must also be completed and submitted to the MIOSHA-Asbestos Program whenever demolition, encapsulation and/or renovation activities at a site involving greater than ten lineal feet and/or fifteen square feet of ACM will be completed.

Regulated asbestos containing materials per NESHAP (40 CFR Part 61) which falls into any of the following categories are ACM's that must be removed prior to any renovation/demolition activities at the Subject Property.

- Friable asbestos material.
- Category I non-friable ACM that has become friable.
- Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading.
- Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of renovation or demolition operations.

Asbestos abatement should only be performed by a certified asbestos abatement contractor licensed to complete abatement work. The contractor must also follow the standards and requirements set forth per the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) and the USEPA NESHAP (40 CFR Part 61).

Additional information regarding the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) and the USEPA NESHAP (40 CFR Part 61) can be obtained by contacting the associated agency below.

NESHAP Asbestos Program  
Department of Environmental Quality  
Phone: 517-284-6777

MIOSHA-CSHD-Asbestos Program  
State of Michigan  
Phone: 517-284-7680  
Email: asbestos@michigan.gov

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**DISCLAIMER**

Red Cedar Consulting performed destructive testing methods in an attempt to access and inspect all areas of the Building. Unfortunately, due to the age of construction along with multiple additions/renovations that may have been completed on the Building, additional inspections may be required if suspect ACM material not documented within this report is encountered during renovation/demolition activities.

This report was prepared at the request and for exclusive use by the Ingham County Land Bank and may not be reproduced or sold without written permission from Red Cedar Consulting.

We appreciate the opportunity to provide the requested services. Please contact us at (888) 449-4566 with any questions or concerns.

Sincerely,  
**Red Cedar Consulting**



Aaron Paquet  
Michigan/EPA Certified Asbestos Building Inspector  
(A30955, Exp. 9-17-2021)

Red Cedar Consulting

***Attachment A***  
***APEX Research Laboratory Analytical Results***

**Certificate of Laboratory Analysis**  
**Test Method, Polarized Light Microscopy (PLM)**  
 Project: 421 Detroit St.



**Report To:**

Mr. Aaron Paquet  
 Red Cedar Consulting  
 P.O. Box 13216  
 Lansing, MI 48901

ARI Report # 24-108916  
 Date Collected: 02/20/24  
 Date Received: 02/21/24  
 Date Analyzed: 02/27/24  
 Date Reported: 02/27/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 01 Cust. #: DS-HM-01A Material: Window Glazing Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 108916 - 02 Cust. #: DS-HM-01B Material: Window Glazing Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 108916 - 03 Cust. #: DS-HM-02A Material: Black Shingle Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Other - 60%

For Layered Samples, each component will be analyzed and reported separately.

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 Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 7717 Kensington Ct., Brighton, MI 48116  
 (734) 449-9990, Fax (734) 449-9991



**Certificate of Laboratory Analysis**  
**Test Method, Polarized Light Microscopy (PLM)**  
 Project: 421 Detroit St.



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 Date Reported: 02/27/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 03a Cust. #: DS-HM-02A Material: White Shingle Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 108916 - 04 Cust. #: DS-HM-02B Material: Black Shingle Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 108916 - 04a Cust. #: DS-HM-02B Material: White Shingle Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Other - 60%

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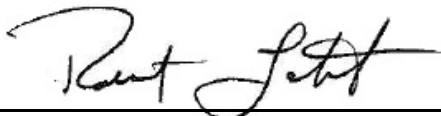
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 05 Cust. #: DS-HM-03A Material: Driveway Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 06 Cust. #: DS-HM-03B Material: Driveway Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 07 Cust. #: DS-HM-04A Material: Sidewalk Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 08 Cust. #: DS-HM-04B Material: Sidewalk Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 09 Cust. #: DS-HM-05A Material: Vapor Barrier Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 108916 - 10 Cust. #: DS-HM-05B Material: Vapor Barrier Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 90% Other - 10%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 11 Cust. #: DS-HM-06A Material: Chimney Flashing Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 10% Other - 90%
Lab ID #: 108916 - 12 Cust. #: DS-HM-06B Material: Chimney Flashing Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 10% Other - 90%
Lab ID #: 108916 - 13 Cust. #: DS-HM-07A Material: Flooring - Linoleum Location: Kitchen Appearance: beige, fibrous, nonhomogenous Layer: 1 of 6	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%

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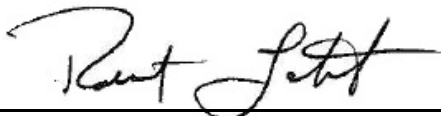
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 13a Cust. #: DS-HM-07A Material: Beige Floor Tile Location: Kitchen Appearance: beige,nonfibrous,homogenous Layer: 2 of 6	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 13b Cust. #: DS-HM-07A Material: Glue Location: Kitchen Appearance: clear,nonfibrous,homogenous Layer: 3 of 6	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 13c Cust. #: DS-HM-07A Material: Red Floor Tile Location: Kitchen Appearance: red,fibrous,homogenous Layer: 4 of 6	Asbestos Present: <b>YES</b> Chrysotile - 2%	Other - 98%

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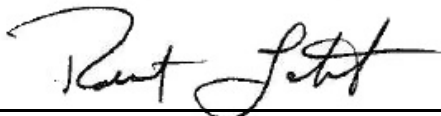
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 13d Cust. #: DS-HM-07A Material: Glue Location: Kitchen Appearance: yellow,nonfibrous,homogenous Layer: 5 of 6	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 13e Cust. #: DS-HM-07A Material: Sheet Flooring Location: Kitchen Appearance: black,fibrous,nonhomogenous Layer: 6 of 6	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 108916 - 14 Cust. #: DS-HM-07B Material: Flooring - Linoleum Location: Kitchen Appearance: beige,fibrous,nonhomogenous Layer: 1 of 6	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 14a Cust. #: DS-HM-07B Material: Beige Floor Tile Location: Kitchen Appearance: beige,nonfibrous,homogenous Layer: 2 of 6	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 14b Cust. #: DS-HM-07B Material: Glue Location: Kitchen Appearance: clear,nonfibrous,homogenous Layer: 3 of 6	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 14c Cust. #: DS-HM-07B Material: Red Floor Tile Location: Kitchen Appearance: red,fibrous,homogenous Layer: 4 of 6	Asbestos Present: <b>YES</b> Chrysotile - 2%	Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 14d Cust. #: DS-HM-07B Material: Glue Location: Kitchen Appearance: yellow,nonfibrous,homogenous Layer: 5 of 6	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 14e Cust. #: DS-HM-07B Material: Sheet Flooring Location: Kitchen Appearance: black,fibrous,nonhomogenous Layer: 6 of 6	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 108916 - 15 Cust. #: DS-HM-08A Material: White Ceiling Tile (12x12) Location: Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 90% Other - 10%

For Layered Samples, each component will be analyzed and reported separately.

\_\_\_\_\_  
 Robert T. Letarte Jr., Laboratory Director

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 Red Cedar Consulting  
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 Lansing, MI 48901

ARI Report # 24-108916  
 Date Collected: 02/20/24  
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 Date Analyzed: 02/27/24  
 Date Reported: 02/27/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 15a Cust. #: DS-HM-08A Material: Glue Pod Location: Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 16 Cust. #: DS-HM-08B Material: White Ceiling Tile (12x12) Location: Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 108916 - 16a Cust. #: DS-HM-08B Material: Glue Pod Location: Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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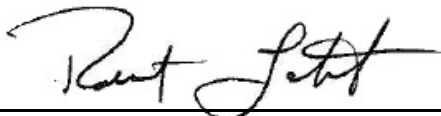
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 17 Cust. #: DS-HM-09A Material: 12x24 White Ceiling Tile w/ Texture Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 108916 - 18 Cust. #: DS-HM-09B Material: 12x24 White Ceiling Tile w/ Texture Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 108916 - 19 Cust. #: DS-HM-10A Material: Fiberboard Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 80% Other - 20%

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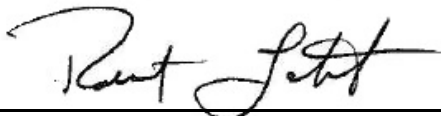
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 20 Cust. #: DS-HM-10B Material: Fiberboard Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 108916 - 21 Cust. #: DS-HM-11A Material: 9x9 Brown VFT Location: Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>YES</b> Chrysotile - 10%	Other - 90%
Lab ID #: 108916 - 21a Cust. #: DS-HM-11A Material: Mastic Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: <b>YES</b> Chrysotile - 5%	Other - 95%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 22 Cust. #: DS-HM-11B Material: 9x9 Brown VFT Location: Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>YES</b> Chrysotile - 10%	Other - 90%
Lab ID #: 108916 - 22a Cust. #: DS-HM-11B Material: Mastic Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: <b>YES</b> Chrysotile - 5%	Other - 95%
Lab ID #: 108916 - 23 Cust. #: DS-HM-12A Material: Basement Concrete Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 24 Cust. #: DS-HM-12B Material: Basement Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 25 Cust. #: DS-HM-13A Material: White Flooring - Linoleum Location: Bathroom Appearance: white,fibrous,nonhomogenous Layer: 1 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%
Lab ID #: 108916 - 25a Cust. #: DS-HM-13A Material: Glue Location: Bathroom Appearance: yellow,nonfibrous,homogenous Layer: 2 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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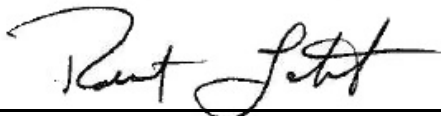
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 25b Cust. #: DS-HM-13A Material: Floor Tile Location: Bathroom Appearance: white,nonfibrous,homogenous Layer: 3 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 108916 - 25c Cust. #: DS-HM-13A Material: Glue Location: Bathroom Appearance: yellow,nonfibrous,homogenous Layer: 4 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 26 Cust. #: DS-HM-13B Material: White Flooring - Linoleum Location: Bathroom Appearance: white,fibrous,nonhomogenous Layer: 1 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 26a Cust. #: DS-HM-13B Material: Glue Location: Bathroom Appearance: yellow,nonfibrous,homogenous Layer: 2 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 26b Cust. #: DS-HM-13B Material: Floor Tile Location: Bathroom Appearance: white,nonfibrous,homogenous Layer: 3 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 108916 - 26c Cust. #: DS-HM-13B Material: Glue Location: Bathroom Appearance: clear,nonfibrous,homogenous Layer: 4 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 27 Cust. #: DS-HS-01A Material: Plaster Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>YES</b> Chrysotile - 2%	Hair - 2% Other - 96%
Lab ID #: 108916 - 28 Cust. #: DS-HS-01B Material: Plaster Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>YES</b> Chrysotile - 2%	Hair - 2% Other - 96%
Lab ID #: 108916 - 29 Cust. #: DS-HS-01C Material: Plaster Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>YES</b> Chrysotile - 2%	Hair - 1% Other - 97%

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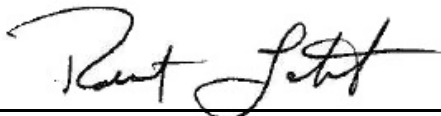
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 30 Cust. #: DS-HS-01D Material: Plaster Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>YES</b> Chrysotile - 2%	Hair - 2% Other - 96%
Lab ID #: 108916 - 31 Cust. #: DS-HS-01E Material: Plaster Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>YES</b> Chrysotile - 2%	Hair - 2% Other - 96%
Lab ID #: 108916 - 32 Cust. #: DS-HS-02A Material: Textured Surfacing (Ceiling) Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%

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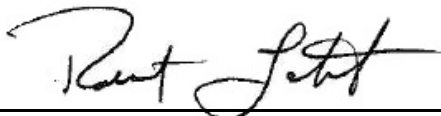
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 33 Cust. #: DS-HS-02B Material: Textured Surfacing (Ceiling) Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 108916 - 34 Cust. #: DS-HS-02C Material: Textured Surfacing (Ceiling) Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 108916 - 35 Cust. #: DS-HS-03A Material: Wall Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 36 Cust. #: DS-HS-03B Material: Wall Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 108916 - 37 Cust. #: DS-HS-03C Material: Wall Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 108916 - 38 Cust. #: DS-HS-03D Material: Wall Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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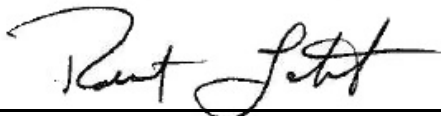
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 39 Cust. #: DS-HS-03E Material: Wall Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 108916 - 40 Cust. #: DS-HM-14A Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 108916 - 40a Cust. #: DS-HM-14A Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%

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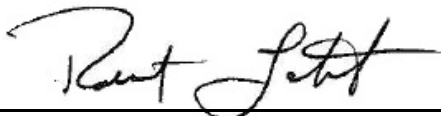
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 108916 - 41 Cust. #: DS-HM-14B Material: Drywall Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: Cust. #: Material: Location: Appearance: Layer:        of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer:        of	Asbestos Present:	

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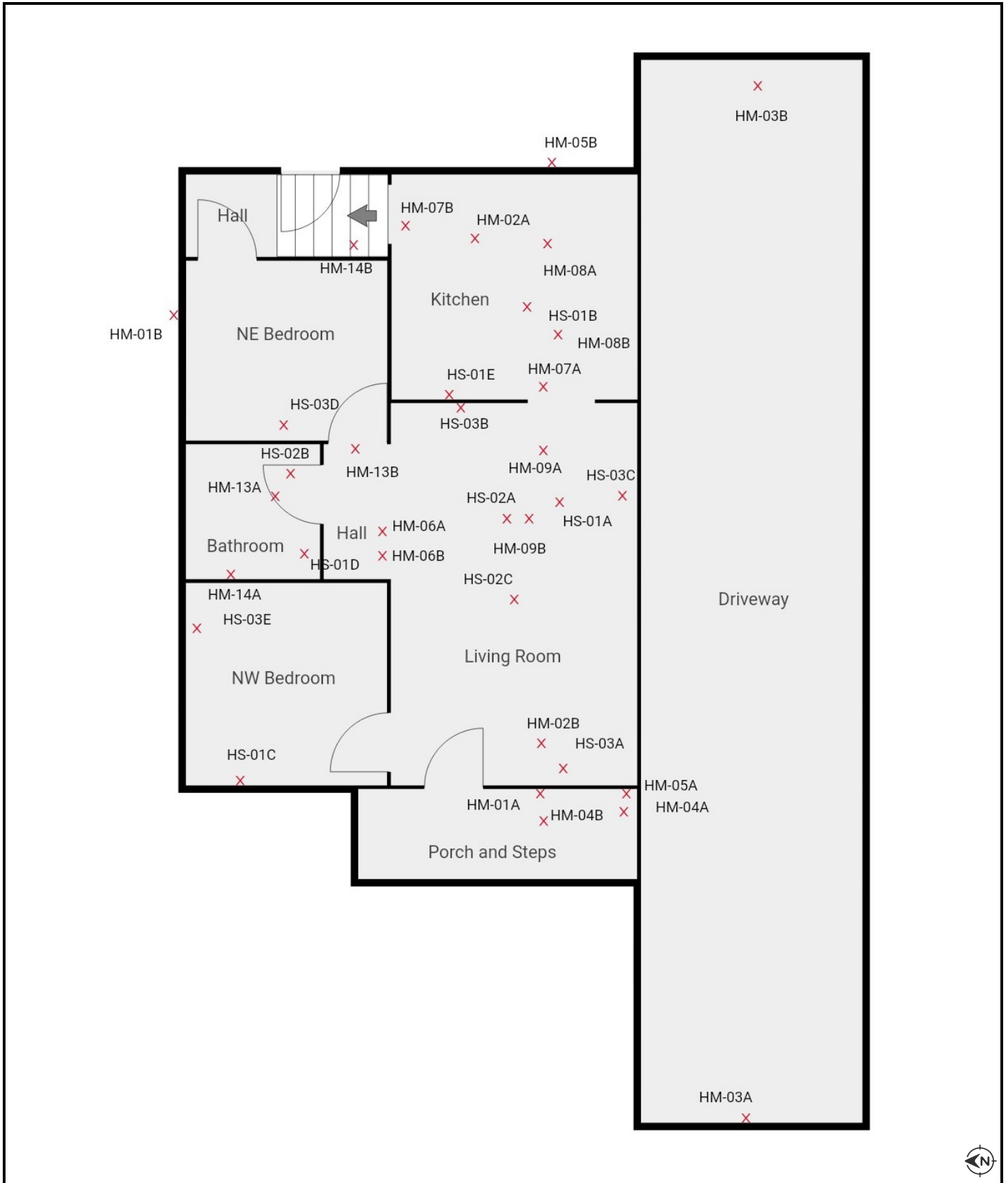
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***Attachment B***  
***Site Diagrams***

Figure 1a Site Diagram

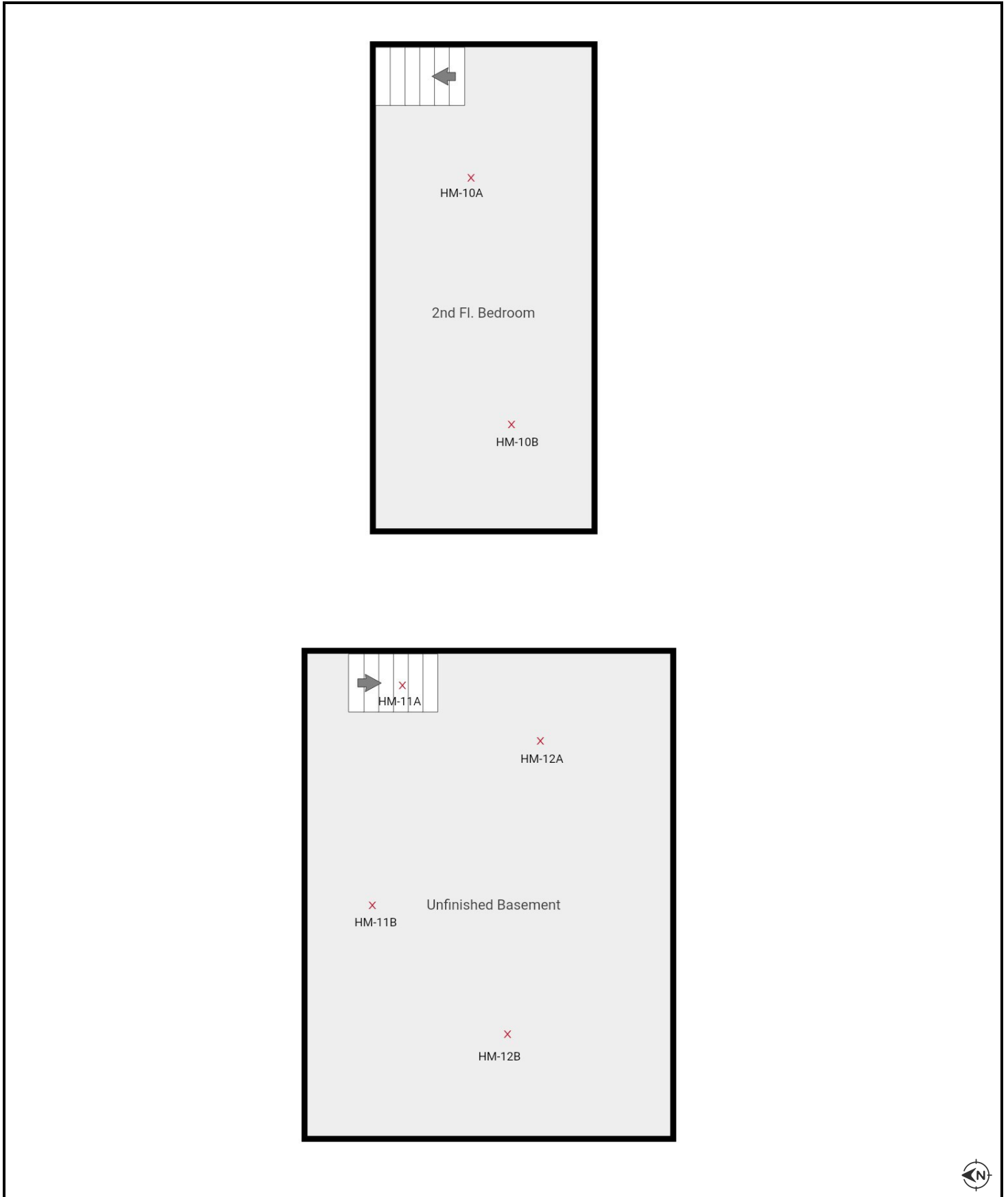


Note: Figure created by Red Cedar Consulting

Asbestos Sample Locations  
421 Detroit St.  
Lansing, MI

-Not To Scale-

Figure 1b Site Diagram



Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations  
421 Detroit St.  
Lansing, MI



Red Cedar Consulting

***Attachment C***  
***ACM Photos***



**PHOTO: 1**

**BY: A. Paquet**

**SUBJECT: View of front of the Property.**



**PHOTO: 2**

**BY: A. Paquet**

**SUBJECT: Kitchen Multilayered Flooring**



**PHOTO: 3** Basement and Stairwell Brown 9x9 Tile  
**SUBJECT:**

**BY: A. Paquet**



**PHOTO: 4**  
**SUBJECT: Basement HVAC Tape on Duct and Framing**

**BY: A. Paquet**



**PHOTO: 5 Living/Kitchen Register**  
**SUBJECT:**

**BY: A. Paquet**



**PHOTO: 6**  
**SUBJECT: Kitchen Wall Plaster**

**BY: A. Paquet**



**PHOTO: 7**

**BY: A. Paquet**

**SUBJECT: Living Ceiling Plaster (covered by non ACM 1x1 Ceiling Tile with Texture)**

**PHOTO: 8**

**BY: A. Paquet**

**SUBJECT:**

Red Cedar Consulting

***Attachment D***  
***Inspector Certifications/ID's***

(<http://michigan.gov/miosha>)

# Individual Profile for DEMASTERS, DARRELL L.

## Name and Address

**Name**

DEMASTERS, DARRELL L.

**Address**

214 KATHERYN STREET  
MASON, MI 48854

## License Information

Accreditation Type	ID #	Status	Expiration Date	Training Expiration Date
Contractor/Supervisor	A31159	Apprvd - Full	1/20/2025	10/12/2024
Inspector	A31159	Apprvd - Full	1/20/2025	10/13/2024

 [New Search \(/Individual/IndividualSearch\)](/Individual/IndividualSearch)

[Back to Top](#)

[MI.gov \(http://www.michigan.gov\)](http://www.michigan.gov)

[Asbestos Program - Verify and Search \(/\)](#)

[Asbestos Program \(https://www.michigan.gov/asbestos\)](https://www.michigan.gov/asbestos)

[Policies \(http://www.michigan.gov/policies\)](http://www.michigan.gov/policies)

**Fibertec Industrial Hygiene Services, Inc.**

certifies that

**Darrell DeMasters**

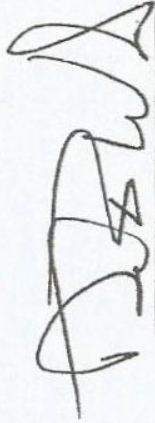
Has successfully completed

**A NIOSH 582 Microscopy Training Course**

given by **Fibertec Industrial Hygiene Services, Inc.**

Presented this 20<sup>th</sup> day of June 2003

Course dates: June 18 - 20, 2003



\_\_\_\_\_  
Instructor



***Tables***

**Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 421 Detroit St. Lansing, Michigan**

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
DS-HM-01A	Window Glazing	Yes	M	Category II	ND	Living	NA
DS-HM-01B	Window Glazing	Yes	M	Category II	ND	NE Bedroom	NA
DS-HM-02A	Layered Shingle Roofing	No	M	Category I	ND/ND	Exterior	NA
DS-HM-02B	Layered Shingle Roofing	No	M	Category I	ND/ND	Exterior	NA
DS-HM-03A	Driveway Concrete	No	M	Category I	ND	Exterior	NA
DS-HM-03B	Driveway Concrete	No	M	Category I	ND	Exterior	NA
DS-HM-04A	Sidewalk Concrete	No	M	Category I	ND	Exterior	NA
DS-HM-04B	Sidewalk Concrete	No	M	Category I	ND	Exterior	NA
DS-HM-05A	Vapor Barrier	Yes	M	Category II	ND	Exterior	NA
DS-HM-05B	Vapor Barrier	Yes	M	Category II	ND	Exterior	NA
DS-HM-06A	Chimney Flashing	No	M	Category I	ND	Exterior	NA
DS-HM-06B	Chimney Flashing	No	M	Category I	ND	Exterior	NA
DS-HM-07A	Kitchen Multilayered Flooring	No	M	Category I	ND/ND/ND/ 2%CH/ND/ND	Kitchen	110 sq. ft.
DS-HM-07B	Kitchen Multilayered Flooring	No	M	Category I	ND/ND/ND/ 2%CH/ND/ND	Kitchen	NA
DS-HM-08A	White Ceiling Tile with Glue Pods 12x12	Yes	M	Category II	ND/ND	Kitchen	NA
DS-HM-08B	White Ceiling Tile with Glue Pods 12x12	Yes	M	Category II	ND/ND	Kitchen	NA
DS-HM-09A	12x24 White Ceiling Tile with Texture	Yes	M	Category II	ND	Living	NA
DS-HM-09B	12x24 White Ceiling Tile with Texture	Yes	M	Category II	ND	Living	NA
DS-HM-10A	Fiberboard	Yes	M	Category II	ND	2 <sup>nd</sup> Floor	NA
DS-HM-10B	Fiberboard	Yes	M	Category II	ND	2 <sup>nd</sup> Floor	NA
DS-HM-11A	9x9 Brown Vinyl Floor Tile	No	M	Category I	10%CH/5%CH	Basement	207 sq. ft.
DS-HM-11B	9x9 Brown Vinyl Floor Tile	No	M	Category I	10%CH/5%CH	Basement Stairwell	NA
DS-HM-12A	Basement Concrete	No	M	Category I	ND	Basement	NA
DS-HM-12B	Basement Concrete	No	M	Category I	ND	Basement	NA
DS-HM-13A	Bathroom Layered White Flooring	No	M	Category I	ND/ND/ND/ND	Bathroom	NA

**Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 421 Detroit St. Lansing, Michigan**

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
DS-HM-13B	Bathroom Layered White Flooring	No	M	Category I	ND/ND/ND/ND	Hall	NA
DS-HM-14A	Drywall	No	M	Category II	ND/ND	Bathroom Wall	NA
DS-HM-14B	Drywall	No	M	Category II	ND	Rear Entry Wall	NA
DS-HS-01A	Plaster	No	S	Category II	2%CH	Living Ceiling	2,592 sq. ft.
DS-HS-01B	Plaster	No	S	Category II	2%CH	Kitchen Ceiling	NA
DS-HS-01C	Plaster	No	S	Category II	2%CH	NW Bedroom Wall	NA
DS-HS-01D	Plaster	No	S	Category II	2%CH	Bathroom Wall	NA
DS-HS-01E	Plaster	No	S	Category II	2%CH	Kitchen Wall	NA
DS-HS-02A	Textured Surfacing (Ceiling)	No	S	Category II	ND	Living Ceiling	NA
DS-HS-02B	Textured Surfacing (Ceiling)	No	S	Category II	ND	Bathroom Ceiling	NA
DS-HS-02C	Textured Surfacing (Ceiling)	No	S	Category II	ND	Living Ceiling	NA
DS-HS-03A	Textured Surfacing (Wall)	No	S	Category II	ND	Living Wall	NA
DS-HS-03B	Textured Surfacing (Wall)	No	S	Category II	ND	Living Wall	NA
DS-HS-03C	Textured Surfacing (Wall)	No	S	Category II	ND	Living Wall	NA
DS-HS-03D	Textured Surfacing (Wall)	No	S	Category II	ND	NE Bedroom Wall	NA
DS-HS-03E	Textured Surfacing (Wall)	No	S	Category II	ND	NW Bedroom Wall	NA

**Notes:**

Material Types

M = Miscellaneous building material  
 TSI = Thermal System Insulation  
 S = Surfacing Material  
 PC = Point Count Analysis  
 CH = Chrysotile Asbestos

Abbreviations

NQ = Not quantified  
 NA = Not Analyzed  
 ND = Not detected. Laboratory result is less than 1 % asbestos  
 lin. ft. = linear feet  
 sq. ft. = square feet

Asbestos Containing Material (ACM) is defined as any material containing more than 1 percent asbestos as determined utilizing Polarized Light Microscopy.

**Table 3 - Summary of Presumed Asbestos Containing Materials, 421 Detroit St. Lansing, Michigan**

<b>Asbestos Containing Material Description and Location</b>					
<b>Location</b>	<b>Material Description</b>	<b>Friable</b>	<b>Condition</b>	<b>Material Type</b>	<b>Approx. Quantity</b>
Basement (Tape on Ductwork, 25 sq. ft.) Living/Kitchen (1 register, 15 sq. ft.)	HVAC Duct Wrap	Yes	Fair	TSI	40 sq. ft.

**Notes:**

Material Types

M = Miscellaneous building material  
 TSI = Thermal System Insulation  
 S = Surfacing Material

Abbreviations

lin. ft. = linear feet  
 sq. ft. = square feet

**Table 4 - Summary of All Asbestos Containing Materials, 421 Detroit St. Lansing, Michigan**

<b>Interior - Asbestos Containing Materials</b>			
<b>Location</b>	<b>Material Description</b>	<b>Friable</b>	<b>Approx. Quantity</b>
Kitchen	Kitchen Multilayered Flooring	No	110 sq. ft.
Stairwell and Basement	9x9 Brown Vinyl Floor Tile and Mastic	No	207 sq. ft.
<b>Total</b>			<b>317 sq. ft.</b>
<b>Interior - Asbestos Containing Materials</b>			
<b>Location</b>	<b>Material Description</b>	<b>Friable</b>	<b>Approx. Quantity</b>
Basement (Tape on Ductwork, 25 sq. ft.)	HVAC Duct Wrap	Yes	40 sq. ft.
Living/Kitchen (1 register, 15 sq. ft.)			
<b>Total</b>			<b>40 sq. ft.</b>
<b>Interior - Asbestos Containing Materials</b>			
<b>Location</b>	<b>Material Description</b>	<b>Friable</b>	<b>Approx. Quantity</b>
1 <sup>st</sup> Floor	Wall Plaster	No	2,064 sq. ft.
1 <sup>st</sup> Floor	Ceiling Plaster	No	528 sq. ft.
<b>Total</b>			<b>2,592 sq. ft.</b>

**Notes:**

Abbreviations

lin. ft. = linear feet  
 sq. ft. = square feet

**Shaded/Bolded** = Friable ACM and any Category I and Category II non-friable ACM that has a high probability of becoming crumbled, pulverized, or reduced to powder by the demolition or renovation activities that must be properly abated prior to commencement of any demolition/renovation activities.

Demolition/renovation activities completed with intact Category I non-friable ACM are regulated by OSHA and must be completed following the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) which limits employee exposure to asbestos.

Please note that a Negative Pressure Enclosure must be utilized during abatement when Site Conditions Warrant. Examples of these conditions include the abatement of Plaster and Vermiculite insulation, HVAC Duct Wrap in Poor Condition, and Air-O-Cell/Mag Pipe Wrap. Conditions outside of these should be assessed on a case by case basis during the Asbestos Abatement Contractors site walk and Work Plan Preparation.