



P.O. Box 13216
Lansing, MI 48901
Phone: 888.449.4566
Fax: 888.448.8739
www.redcedarconsulting.net

May 11, 2022

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

***RE: Asbestos Containing Material and Hazardous Materials Inspection
1027 Cady Ct., Lansing, MI 48906
Parcel ID: 33-01-01-10-329-321***

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 1027 Cady Ct., 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 .13- acre residential parcel which contains an approximate 1,286 square foot residential building (the Building) constructed in 1906. The Building was constructed on a concrete basement with one aboveground floor. The exterior walls of the Building were finished with Transite Siding while the roof was sealed with asphalt shingles. The Building can be further divided into a living room, dining room, kitchen, bath, den, and two bedrooms.

VISUAL INSPECTION AND SAMPLING

Asbestos Containing Materials Inspection

Aaron Paquet of Red Cedar Consulting (Red Cedar), accredited State Of Michigan/EPA Asbestos Building Inspector (Accreditation Number A30955) who completed training per the Michigan Asbestos Workers Accreditation Act 440, completed an inspection of the Subject Property on April 22, 2022 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:

- Asphalt Shingle
- Vapor Barrier
- Linoleum
- 1x1 Ceiling Tile
- Drywall
- Glazing
- Concrete
- Flashing
- Rolled Roofing
- Sink Undercoat
- Sand Plaster
- Gray Plaster

Red Cedar staff collected forty samples of suspect ACBM separated into eighteen 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 samples is included as Attachment A.

Hazardous Materials Inspection

On April 22, 2022, 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 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 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 “Transite” Siding on 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

No friable ACM's were identified during the completion of this inspection.

Category I ACM

Two types of resilient floor covering (Layered Yellow Linoleum and Beige Brick Linoleum) located within the kitchen and bath were found to contain up to 10% Chrysotile asbestos. The assessment to quantify the extent of this material identified approximately 150 sq. ft. of this material within the Building.

Category II ACM

The cementitious "Transite" siding located on the exterior of the Building was classified as PACM and no samples were collected. The visual assessment to quantify the extent of this material identified 1,430 sq. ft. of cementitious (Transite) siding on the Building.

Sand Plaster samples, collected from the Building were found to contain up to 1.5% asbestos following analysis. The assessment to quantify the extent of this material identified approximately 1,875 sq. ft. of sand plaster within the Building.

A sink undercoat sample collected from the Kitchen was found to contain up to 5% asbestos following analysis. The assessment to quantify the extent of this material identified 1 Sink within the Building.

RECOMMENDATIONS

Asbestos Containing Materials

Transite siding was identified on the exterior of the Building and in the Basement of the Building (debris) and must be abated prior to completion of any demolition activities at the Subject Property. In demolition, all cementitious ACM must be removed prior to demolition due to the likelihood of becoming regulated due to the demolition process.

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.

Kitchen Sink Undercoat 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 (Layered Yellow Linoleum and Beige Brick Linoleum) 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.

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:

- Television (1)
- Smoke Detector (1)
- Gallon Container Misc. Paint (2)
- 5-Gallon Container Misc. Paint (1)

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).

Project No.: 19-1159
Ingham County Land Bank
Parcel ID: 33-01-01-10-329-321

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

Project No.: 19-1159
Ingham County Land Bank
Parcel ID: 33-01-01-10-329-321

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. 10-12-2022)

Attachment A
APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99449 - 01
Cust. #: CC-HM-01A
Material: Brown Layer Shingle
Location:
Appearance: black, fibrous, nonhomogenous
Layer: 1 of 3

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 40%
Other - 60%

Lab ID #: 99449 - 01a
Cust. #: CC-HM-01A
Material: Grey Shingle
Location:
Appearance: black, fibrous, nonhomogenous
Layer: 2 of 3

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 30%
Other - 70%

Lab ID #: 99449 - 01b
Cust. #: CC-HM-01A
Material: Red Shingle
Location:
Appearance: black, fibrous, nonhomogenous
Layer: 3 of 3

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 40%
Other - 60%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 02 Cust. #: CC-HM-01B Material: Brown Layer Shingle Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99449 - 02a Cust. #: CC-HM-01B Material: Grey Shingle Location: Appearance: grey, fibrous, nonhomogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 99449 - 02b Cust. #: CC-HM-01B Material: Red Shingle Location: Appearance: black, fibrous, nonhomogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Other - 60%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 03 Cust. #: CC-HM-02A Material: Vapor Barrier Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99449 - 04 Cust. #: CC-HM-02B Material: Vapor Barrier Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99449 - 05 Cust. #: CC-HM-03A Material: Beige & Brown Diamond Lin./Sheet Fl Location: Appearance: brown, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99449 - 06
Cust. #: CC-HM-03B
Material: Beige & Brown Diamond Lin./Sheet Fl
Location:
Appearance: brown, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 60%
Other - 40%

Lab ID #: 99449 - 07
Cust. #: CC-HM-04A
Material: Yellow Linoleum
Location:
Appearance: yellow, fibrous, nonhomogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 5%
Other - 95%

Lab ID #: 99449 - 07a
Cust. #: CC-HM-04A
Material: Brown Linoleum
Location:
Appearance: brown, fibrous, nonhomogenous
Layer: 2 of 2

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 08 Cust. #: CC-HM-04B Material: Yellow Linoleum Location: Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 5% Other - 95%
Lab ID #: 99449 - 08a Cust. #: CC-HM-04B Material: Brown Linoleum Location: Appearance: Layer: 2 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 99449 - 09 Cust. #: CC-HM-05A Material: Beige Brick Linoleum/Glue Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 10% Other - 80%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 09a Cust. #: CC-HM-05A Material: Stone Pattern Linoleum/Glue Location: Appearance: white, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 99449 - 10 Cust. #: CC-HM-05B Material: Beige Brick Linoleum/Glue Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 10% Other - 80%
Lab ID #: 99449 - 10a Cust. #: CC-HM-05B Material: Stone Pattern Linoleum/Glue Location: Appearance: Layer: 2 of 2	Asbestos Present: NOT ANALYZED	

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 11 Cust. #: CC-HM-06A Material: Beige Linoleum Remnant/Sheet Fl. Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99449 - 12 Cust. #: CC-HM-06B Material: Beige Linoleum Remnant/Sheet Fl. Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99449 - 13 Cust. #: CC-HM-07A Material: 1x1 White CT Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 14 Cust. #: CC-HM-07B Material: 1x1 White CT Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 99449 - 15 Cust. #: CC-HM-08A Material: Drywall Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99449 - 16 Cust. #: CC-HM-08B Material: Drywall Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 17 Cust. #: CC-HM-09A Material: Window Glazing Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 1% Other - 99%
Lab ID #: 99449 - 18 Cust. #: CC-HM-09B Material: Window Glazing Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 1% Other - 99%
Lab ID #: 99449 - 19 Cust. #: CC-HM-10A Material: Concrete Floor Location: Basement Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 20 Cust. #: CC-HM-10B Material: Concrete Floor Location: Basement Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 21 Cust. #: CC-HM-11A Material: Concrete Wall Location: Basement Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 22 Cust. #: CC-HM-11B Material: Concrete Wall Location: Basement Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 10 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 23 Cust. #: CC-HM-12A Material: Driveway Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 24 Cust. #: CC-HM-12B Material: Driveway Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 25 Cust. #: CC-HM-13A Material: Roof Flashing/Tar/Felt Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 11 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 26 Cust. #: CC-HM-13B Material: Roof Flashing/Tar/Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 99449 - 27 Cust. #: CC-HM-14A Material: Rolled Roofing/Shingle Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 99449 - 28 Cust. #: CC-HM-14B Material: Rolled Roofing/Shingle Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 12 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 29 Cust. #: CC-HM-15A Material: Covered Roofing System/Tar/Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 40% Other - 60%
Lab ID #: 99449 - 30 Cust. #: CC-HM-15B Material: Covered Roofing System/Tar/Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 40% Other - 60%
Lab ID #: 99449 - 31 Cust. #: CC-HS-01A Material: Sand Plaster Finish Coat Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 13 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 31a Cust. #: CC-HS-01A Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 31b Cust. #: CC-HS-01A Material: Drywall Location: Appearance: grey,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 99449 - 32 Cust. #: CC-HS-01B Material: Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 4	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 32a Cust. #: CC-HS-01B Material: Layered Drywall Location: Appearance: white, fibrous, nonhomogenous Layer: 2 of 4	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 99449 - 32b Cust. #: CC-HS-01B Material: Sand Plaster Finish Coat Location: Appearance: white, nonfibrous, homogenous Layer: 3 of 4	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 32c Cust. #: CC-HS-01B Material: Plaster Base Coat Location: Appearance: grey, fibrous, homogenous Layer: 4 of 4	Asbestos Present: YES Chrysotile - 1.5% POINT COUNT RESULT	Hair - 5% Other - 93.5%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 33 Cust. #: CC-HS-01C Material: Sand Plaster Finish Coat Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 33a Cust. #: CC-HS-01C Material: Plaster Base Coat Location: Appearance: Layer: 2 of 3	Asbestos Present: NOT ANALYZED	
Lab ID #: 99449 - 33b Cust. #: CC-HS-01C Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 16 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 34 Cust. #: CC-HS-01D Material: Sand Plaster Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 34a Cust. #: CC-HS-01D Material: Plaster Base Coat Location: Appearance: Layer: 2 of 3	Asbestos Present: NOT ANALYZED	
Lab ID #: 99449 - 34b Cust. #: CC-HS-01D Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 17 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 35 Cust. #: CC-HS-01E Material: Sand Plaster Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 35a Cust. #: CC-HS-01E Material: Plaster Base Coat Location: Appearance: Layer: 2 of 3	Asbestos Present: NOT ANALYZED	
Lab ID #: 99449 - 35b Cust. #: CC-HS-01E Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 18 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99449 - 36
Cust. #: CC-HS-02A
Material: Grey Plaster Finish Coat
Location:
Appearance: white,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 99449 - 36a
Cust. #: CC-HS-02A
Material: Plaster Base Coat
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 99449 - 37
Cust. #: CC-HS-02B
Material: Grey Plaster Finish Coat
Location:
Appearance: white,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99449
Date Collected: 04/22/22
Date Received: 04/25/22
Date Analyzed: 04/27/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99449 - 37a Cust. #: CC-HS-02B Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 38 Cust. #: CC-HS-02C Material: Grey Plaster Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99449 - 38a Cust. #: CC-HS-02C Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert Letarte".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 20 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 1027 Cady Ct.



Report To:

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

ARI Report # 22-99531
Date Collected: 04/30/22
Date Received: 05/03/22
Date Analyzed: 05/03/22
Date Reported: 05/04/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99531 - 01
Cust. #: CC-HM-16A
Material: Sink Undercoat
Location: Kitchen
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 5%

Other - 95%

Lab ID #: 99531 - 02
Cust. #: CC-HM-16B
Material: Sink Undercoat
Location: Kitchen
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991



APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990
E-mail: apexresearch@chartermi.net Fax: 734-449-9991

Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 4-22-22

Project: 1027 Cady Ct

Project #:

Contact Person: Aaron Paquet

labdata@redcedarconsulting.net
PLM EPA 600, PC all samples with a detection of <5% ACM.

Turn Around Times: (Circle One)

Rush 24 hour

48 hour

72 hour

Other:

TTP All Samples

Asbestos: Bulk ☒ Wipe ☐ Point Count ☐ PCM ☐
Lead: Bulk ☐ Wipe ☐ Air ☐ Paint ☐ Soil ☐
Mold: Bulk ☐ Tape ☐ BioSIS ☐ Other ☐ Viable ☐
TEM: AHERA 7400 ☐ Bulk/NOB ☐ EPA Level II ☐

Lab Use Only
Log-In _____
Report _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	CC-HM-01A	Brown Layer Shingle			
	01B	" "			
	02A	Vapor Barrier			
	02B	" "			
	03A	Beige Brown Diamond Lin			
	03B	" "			
	04A	Light Yellow Lin			
	04B	" "			
	05A	Beige Brick Lin			
	05B	" "			
	06A	Beige Lin Sennant			

RECEIVED

APR 25 2022

APEX RESEARCH

Relinquished by: APR 25 2022 Received by: UPS

Date: 4-22-22 Date: 4-22-22

Relinquished by: APR 25 2022 Received by: APR 25 2022

Date: 4-22-22 Date: 4-22-22



AREX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990
E-mail: apexresearch@chartermi.net Fax: 734-449-9991

Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 4-22-22

Project: 1027 Cady Ct

Project #:

Contact Person: Aaron Paquet

Turn Around Times: (Circle One) PLM EPA 600, PC all samples with a detection of <5% ACM. labdata@redcedarconsulting.net

Asbestos: Bulk x Wipe Point Count PCM

Rush 24 hour

48 hour 72 hour

Other: TTP All Samples

Lead: Bulk Wipe Air Paint Soil

Mold: Bulk Tape BioSIS Other Viable

TEM: AHERA 7400 Bulk/NOB EPA Level II

Lab Use Only
Log-In _____
Report _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	CC-HM-06B	Beige Lin Rannant			
	07A	1X1 White ct			
	07B	" " "			
	08A	Anywall			
	08B	" "			
	09A	Window Siding			
	09B	" "			
	10A	Basement Concrete Floor			
	10B	" "			
	11A	Basement Concrete Wall			
	11B	" "			

RECEIVED

APR 25 2022

APEX RESEARCH

Relinquished by: ASR Received by: UPS

Date: 4-22-22 Date: 4-22-22

Relinquished by: _____ Received by: _____

Date: _____ Date: _____

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990
E-mail: apexresearch@chartermi.net Fax: 734-449-9991



Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 4-22-22

Project: 1027 Cady Ct

Project #:

Contact Person: Aaron Paquet

labdata@redcedarconsulting.net
PLM EPA 600, PC all samples with a detection of <5% ACM.

Turn Around Times: (Circle One)

Rush 24 hour

48 hour

72 hour

Other: TTP All Samples

Asbestos: Bulk x Wipe Point Count PCM
Lead: Bulk Wipe Air Paint Soil
Mold: Bulk Tape BioSIS Other Viable
TEM: AHERA 7400 Bulk/NOB EPA Level II

Lab Use Only
Log-In
Report

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	CC-HM-12A	Driveway Concrete			
	12B	" "			
	13A	Roof Flashing			
	13B	" "			
	14A	Roller Roofing			
	14B	" "			
	15A	Covered Roofing System			
	15B	" "			
	CC-HS-01A	Sand Plaster			
	01B	" "			
	01C	" "			

RECEIVED

APR 25 2022

APEX RESEARCH

Relinquished by: Received by:

Date: Date:



AR^{EX} Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990
E-mail: apexresearch@chartermi.net Fax: 734-449-9991

E-mail: apexresearch@chartermi.net Fax: 734-449-9991

Client Name: Red Cedar Consulting

Date of Survey: 4-22-22

Address: PO Box 13216

Project: 1027 Cadex C7

City, St., Zip: Lansing, MI 48901

Project #:

Phone: (888) 449-4566
Fax: (888) 448-8739

Contact Person: Aaron Paquet

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM.

S: (Circle One)

Asbestos: Bulk X

Wipe	Point Count	PCM
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Rush
24 hour[illegible]

48 hour

72 hour

bioRxiv preprint doi: <https://doi.org/10.1101/2017.05.01.132404>; this version posted May 1, 2017. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Other :

TTP All Samples

TEM:	AHERA 7400	Bulk/NOB	EPA Level II

Bulk/NOB EPA Level II

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	CC- HS-01D	Sand Plaster			
	CC- HS-01E	" "			
	CC- HS-02A	Gray Plaster			
	↓ ↓ 02B	(↓)			
	↓ ↓ 02C	↓ ↓ X			
					RECEIVED
					APR 25 2022
					APEX RESEARCH

Relinquished by:  Received by: JTS

Relinquished by:

Received by:

Date: 4-22-22

Date :

Date : 30



ARLA Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net Fax: 734-449-9991

Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 **Fax:** (888) 448-8739

Date of Survey: 4-30-22

Project: 1027 Cady Ct.

Project # :

Contact Person: Aaron Paquet

Fax: (888) 448-8739

(888) 449-4566

Turn Around Times: (Circle One)

Turn Around Times: (Circle One)

Asbestos: Bulk

✕

Wipe

Point Count

PCM

Rush

48 hour 72 hour

Other : **TTP** All Samples

TTP All Samples

TEM: AHERA 7400

Bulk/NOB

EPA Level II

III

[illegible]

Relinquished by: 

Received by: 

Received by: 

Date: 5-2-22 Date: 5-2-22

Date: 5-2-27 ✓

Received by: 

Date: 1/22

Attachment B
Site Diagrams

Figure 1 Site Diagram



Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
1027 Cady Ct.
Lansing, MI

Attachment C
ACM Photos



PHOTO: 1

BY: A. Paquet

SUBJECT: View of front of the Property.



PHOTO: 2

BY: A. Paquet

SUBJECT: Transite Siding on Building



PHOTO: 3

BY: A. Paquet

SUBJECT: Kitchen Flooring with Asbestos Mastic



PHOTO: 4

BY: A. Paquet

SUBJECT: Bathroom Flooring with Asbestos Mastic



PHOTO: 5

BY: A. Paquet

SUBJECT: Plaster Base Coat with Asbestos



PHOTO: 6

BY: A. Paquet

SUBJECT: Kitchen Sink with Asbestos Undercoat

Attachment D
Inspector Certifications/ID's

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

Individual Profile for PAQUET, AARON J.

Name and Address

Name

PAQUET, AARON J.

Address

228 WEST BERRY AVENUE
LANSING, MI 48910

License Information

Accreditation Type: Contractor/Supervisor

ID#: A30955

Status: Apprvd - Full

Expiration Date: 2/11/2023

Training Expiration Date: 1/13/2023

Accreditation Type: Inspector

ID#: A30955

Status: Apprvd - Full

Expiration Date: 10/12/2022

Training Expiration Date: 7/16/2022

Accreditation Type: Management Planner

ID#: A30955

Status: Apprvd - Full

Expiration Date: 10/12/2022

Training Expiration Date: 7/16/2022

Environmental and Occupational Consulting and Training of MI, Inc.
2916 Business One Drive
Kalamazoo, MI 49048
269-383-6960

Aaron Paquet

Social Security Number: xxx-xx-2656
Has Successfully Completed

NIOSH 582 Equivalent: Method 7400

On August 29, 2019

In accordance with OSHA Construction Standard 1926.1101;

2018-0243

Certificate Number

Alisa Kahn Klinkel
Alisa Kahn Klinkel

Tables

Table 1 - Summary of Hazardous Materials, 1027 Cady Ct., Lansing, Michigan

Hazardous Materials Description and Location		
Location	Material Description	Quantity
Den	Television	1
Den	Smoke Detector	1
Kitchen	Gallon Container Misc. Paint	2
Den	5-Gallon Container Misc. Paint	1

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 1027 Cady Ct., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
CC-HM-01A	Brown Layer Shingle	No	M	Category I	ND/ND/ND	Exterior	1,850 sq. ft.
CC-HM-01B	Brown Layer Shingle	No	M	Category I	ND/ND/ND	Exterior	NA
CC-HM-02A	Vapor Barrier	Yes	M	Category II	ND	Exterior	1,180 sq. ft.
CC-HM-02B	Vapor Barrier	Yes	M	Category II	ND	Exterior	NA
CC-HM-03A	Beige & Brown Diamond Lin./layered	No	M	Category I	ND	Den	150 sq. ft.
CC-HM-03B	Beige & Brown Diamond Lin./layered	No	M	Category I	ND	Den	NA
CC-HM-04A	Layered Yellow Linoleum	No	M	Category I	ND/10% CH	Kitchen	130 sq. ft.
CC-HM-04B	Layered Yellow Linoleum	No	M	Category I	ND/NA	Kitchen	NA
CC-HM-05A	Beige Brick Linoleum	No	M	Category I	ND/10%	Bathroom	40 sq. ft.
CC-HM-05B	Beige Brick Linoleum	No	M	Category I	ND/NA	Bathroom	NA
CC-HM-06A	Beige Linoleum Remnant	No	M	Category I	ND	N Bedroom	80 sq. ft.
CC-HM-06B	Beige Linoleum Remnant	No	M	Category I	ND	N Bedroom	NA
CC-HM-07A	1x1 White CT	Yes	M	Category II	ND	N Bedroom	80 sq. ft.
CC-HM-07B	1x1 White CT	Yes	M	Category II	ND	N Bedroom	NA
CC-HM-08A	Drywall	No	M	Category II	ND	Living Closet	650 sq. ft.
CC-HM-08B	Drywall	No	M	Category II	ND	Den Wall	NA
CC-HM-09A	Window Glazing	Yes	M	Category II	ND	N Bedroom	2 Windows
CC-HM-09B	Window Glazing	Yes	M	Category II	ND	Bsmt. Porch	NA
CC-HM-10A	Basement Concrete Floor	No	M	Category II	ND	Basement	870 sq. ft.
CC-HM-10B	Basement Concrete Floor	No	M	Category II	ND	Basement	NA
CC-HM-11A	Basement Concrete Wall	No	M	Category II	ND	Basement	980 sq. ft.
CC-HM-11B	Basement Concrete Wall	No	M	Category II	ND	Basement	NA
CC-HM-12A	Driveway Concrete	No	M	Category II	ND	Exterior	850 sq. ft.
CC-HM-12B	Driveway Concrete	No	M	Category II	ND	Exterior	NA
CC-HM-13A	Roof Flashing	No	M	Category II	ND	Exterior	25 sq. ft.
CC-HM-13B	Roof Flashing	No	M	Category II	ND	Exterior	NA
CC-HM-14A	Rolled Roofing	No	M	Category I	ND	Exterior	600 sq. ft.

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 1027 Cady Ct., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
CC-HM-14B	Rolled Roofing	No	M	Category I	ND	Exterior	NA
CC-HM-15A	Covered Roofing System	No	M	Category I	ND	Exterior	600 sq. ft.
CC-HM-15B	Covered Roofing System	No	M	Category I	ND	Exterior	NA
CC-HM-16A	Sink Undercoat	No	M	Category II	5% CH	Kitchen	1 Sink
CC-HM-16B	Sink Undercoat	No	M	Category II	NA	Kitchen	NA
CC-HS-01A	Plaster	No	S	Category II	ND/ND/ND	Living Ceiling	NA
CC-HS-01B	Plaster	No	S	Category II	ND/ND/ND/ 1.5% CH	Den Ceiling	1,875 sq. ft.
CC-HS-01C	Plaster	No	S	Category II	ND/NA/ND	NE Bedroom Wall	NA
CC-HS-01D	Plaster	No	S	Category II	ND/NA/ND	Dining Wall	NA
CC-HS-01E	Plaster	No	S	Category II	ND/NA/ND	Living Wall	NA
CC-HS-02A	Gray Plaster	No	S	Category II	ND/ND	Bath Ceiling	650 sq. ft.
CC-HS-02B	Gray Plaster	No	S	Category II	ND/ND	Kitchen Wall	NA
CC-HS-02C	Gray Plaster	No	S	Category II	ND/ND	Kitchen 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, 1027 Cady Ct., Lansing, Michigan

Asbestos Containing Material Description and Location					
Location	Material Description	Friable	Condition	Material Type	Approx. Quantity
Building Exterior	Transite Siding	No	Fair	M	1,180 sq. ft.
Michigan Basement "Shelf"	Transite Siding Debris	No	Fair	M	250 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, 1027 Cady Ct., Lansing, Michigan

Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Kitchen	Layered Yellow Linoleum (bottom layer of mastic)	No	130 sq. ft.
Bath	Beige Brick Linoleum Layered (bottom layer of mastic)	No	40 sq. ft.
Total			150 sq. ft.
Exterior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Building Exterior	Transite Siding	No	1,180 sq. ft.
Michigan Basement “Shelf”	Transite Siding Debris	No	250 sq. ft.
Total			1,430 sq. ft.
Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Kitchen	Sink Undercoat	No	1 Sink
Total			1 Sink
Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Building Interior	Wall and Ceiling Sand Plaster	No	1,875 sq. ft.
Total			1,875 sq. ft.

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.

Table 4 - Summary of All Asbestos Containing Materials, 1027 Cady Ct., Lansing, Michigan

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.



P.O. Box 13216
Lansing, MI 48901
Phone: 888.449.4566
Fax: 888.448.8739
www.redcedarconsulting.net

May 2, 2022

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

RE: *Asbestos Containing Material and Hazardous Materials Inspection*
929 Johnson Ave., Lansing, MI 48906
Parcel ID: 33-01-01-10-329-321

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 929 Johnson Ave., 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 .13-acre residential parcel which contains an approximate 375 square foot residential building (the Building) constructed in 1916. The Building was constructed on a concrete crawl space with one aboveground floor. The exterior walls of the Building were finished with Transite while the roof was sealed with asphalt shingles. The Building can be further divided into a kitchen, bathroom, bedroom and living room.

VISUAL INSPECTION AND SAMPLING

Asbestos Containing Materials Inspection

Aaron Paquet of Red Cedar Consulting (Red Cedar), accredited State Of Michigan/EPA Asbestos Building Inspector (Accreditation Number A30955) who completed training per the Michigan Asbestos Workers Accreditation Act 440, completed an inspection of the Subject Property on April 25, 2022 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:

- Asphalt Shingle
- Vapor Barrier
- Flashing
- Concrete
- Vinyl Flooring
- Drywall & Compound
- Old Drywall
- Glazing

Red Cedar staff collected twenty samples of suspect ACBM separated into ten 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 twenty samples is included as Attachment A.

Hazardous Materials Inspection

On April 25, 2022, 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, twenty 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 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 Cementitious “Transite” Siding on 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

A window glazing sample collected from a window in the Building was found to contain up to 1.5% asbestos following analysis. The assessment to quantify the extent of this material identified windows at the following locations that would fall into the same homogenous group. The locations of the windows are listed below:

- Kitchen (1 window 36" wide x 24" tall)

Category I ACM

No Category I ACM was identified during the completion of this inspection.

Category II ACM

The cementitious "Transite" siding located on the exterior of the Building was classified as PACM and no samples were collected. The visual assessment to quantify the extent of this material identified 700 sq. ft. of cementitious (Transite) siding on the Building.

RECOMMENDATIONS

Asbestos Containing Materials

Friable asbestos containing window glazing was identified on windows throughout the Building. The locations of these windows that should be abated prior to demolition/renovation activities are listed below:

- Kitchen (1 window 36" wide x 24" tall)

Transite siding was identified on the exterior of the Building and must be abated prior to completion of any demolition activities at the Subject Property. In demolition, all cementitious ACM must be removed prior to demolition due to the likelihood of becoming regulated due to the demolition process.

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.

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:

- No Hazardous Materials Identified

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

Project No.: 19-1159
Ingham County Land Bank
Parcel ID: 33-01-01-10-329-321

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. 10-12-2022)

Attachment A
APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 929 Johnson Ave.



Report To:

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

ARI Report # 22-99473
Date Collected: 04/25/22
Date Received: 04/27/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99473 - 01
Cust. #: JA-HM-01A
Material: Asphalt Shingle
Location:
Appearance: black, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 15%
Other - 85%

Lab ID #: 99473 - 01a
Cust. #: JA-HM-01A
Material: Tar Paper
Location:
Appearance: black, fibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 50%
Other - 50%

Lab ID #: 99473 - 02
Cust. #: JA-HM-01B
Material: Asphalt Shingle
Location:
Appearance: black, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 15%
Other - 85%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 929 Johnson Ave.



Report To:

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

ARI Report # 22-99473
Date Collected: 04/25/22
Date Received: 04/27/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99473 - 02a Cust. #: JA-HM-01B Material: Tar Paper Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 99473 - 03 Cust. #: JA-HM-02A Material: Vapor Barrier Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 99473 - 04 Cust. #: JA-HM-02B Material: Vapor Barrier Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 929 Johnson Ave.



Report To:

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

ARI Report # 22-99473
Date Collected: 04/25/22
Date Received: 04/27/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99473 - 05 Cust. #: JA-HM-03A Material: Flashing Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99473 - 06 Cust. #: JA-HM-03B Material: Flashing Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99473 - 07 Cust. #: JA-HM-04A Material: Concrete Location: Approach Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 929 Johnson Ave.



Report To:

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

ARI Report # 22-99473
Date Collected: 04/25/22
Date Received: 04/27/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99473 - 08 Cust. #: JA-HM-04B Material: Concrete Location: Approach Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99473 - 09 Cust. #: JA-HM-05A Material: Concrete Location: Sidewalk Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99473 - 10 Cust. #: JA-HM-05B Material: Concrete Location: Sidewalk Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 929 Johnson Ave.



Report To:

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

ARI Report # 22-99473
Date Collected: 04/25/22
Date Received: 04/27/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99473 - 11
Cust. #: JA-HM-06A
Material: Vinyl Flooring
Location:
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 20%
Fiberglass - 10%
Other - 70%

Lab ID #: 99473 - 12
Cust. #: JA-HM-06B
Material: Vinyl Flooring
Location:
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 20%
Fiberglass - 10%
Other - 70%

Lab ID #: 99473 - 13
Cust. #: JA-HM-07A
Material: Block Vinyl
Location:
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 40%
Fiberglass - 10%
Other - 50%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 929 Johnson Ave.



Report To:

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

ARI Report # 22-99473
Date Collected: 04/25/22
Date Received: 04/27/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99473 - 14 Cust. #: JA-HM-07B Material: Block Vinyl Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Fiberglass - 10% Other - 50%
Lab ID #: 99473 - 15 Cust. #: JA-HM-08A Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99473 - 15a Cust. #: JA-HM-08A Material: Joint Compound Location: Appearance: beige, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 929 Johnson Ave.



Report To:

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

ARI Report # 22-99473
Date Collected: 04/25/22
Date Received: 04/27/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99473 - 16 Cust. #: JA-HM-08B Material: Drywall/Joint Compound Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99473 - 17 Cust. #: JA-HM-09A Material: Old Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99473 - 18 Cust. #: JA-HM-09B Material: Old Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 929 Johnson Ave.



Report To:

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

ARI Report # 22-99473
Date Collected: 04/25/22
Date Received: 04/27/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99473 - 19
Cust. #: JA-HM-10A
Material: Glazing
Location:
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 1.5%

Other - 98.5%

POINT COUNT RESULT

Lab ID #: 99473 - 20
Cust. #: JA-HM-10B
Material: Glazing
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

99473

A A research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net Fax: 734-449-9991



pg 1 of 2

Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 4-25-22

Project: 929 Johnson Ave

Project #:

Contact Person: Aaron Paquet

Turn Around Times: (Circle One) PLM EPA 600, PC all samples with a detection of <5% ACM.
 labdata@redcedarconsulting.net

Rush

24 hour

48 hour

72 hour

Other:

TTP All Samples

Asbestos: Bulk x Wipe Point Count PCM

Lead: Bulk Wipe Air Paint Soil

Mold: Bulk Tape BioSIS Other Viable

TEM: AHERA 7400 Bulk/NOB EPA Level II

 Lab Use Only
 Log-In _____
 Report _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	JA-HM-01A	Asphalt Shingle			
	01B	"			
	02A	Vapor Barrier			
	02B	"			
	03A	Flashing			
	03B	"			
	04A	Concrete Approach			
	04B	"			
	05A	Concrete Sidewalk			
	05B	"			
	06A	Link. Vinyl Flooring			

Relinquished by: *Curran*

Received by:

Date: 4-27-22

Date:

Relinquished by:

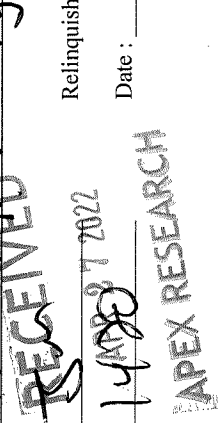
Date:

Received by:

Date:

Rev: 12/03

Work Forms: COC





Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990
E-mail: apexresearch@chartermi.net Fax: 734-449-9991

Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 4-25-22

Project: 929 Johnson Ave.

Project #:

Contact Person: Aaron Paquet

labdata@redcedarconsulting.net
with a detection of <5% ACM.

Turn Around Times: (Circle One)

Asbestos: Bulk x Wipe Point Count PCM

Rush 24 hour

48 hour

72 hour

Other: ☒ TTP All Samples

Lead: Bulk Wipe Air Paint Soil

Mold: Bulk Tape BioSIS Other Viable

TEM: AHERA 7400 Bulk/NOB EPA Level II

Lab Use Only
Log-In _____
Report _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	JA-444-663	Leak. Vinyl Flooring			
	07A	Black Vinyl			
	07B	" "			
	08A	Drywall & Compound			
	08B	" "			
	09A	Old Drywall			
	09B	" "			
	10A	Glazing			
	10B	" "			
		RECEIVED			

APR 27 2022

Relinquished by: *Conf* Received by: _____

Date: 4-27-22

Date: _____

Relinquished by: _____

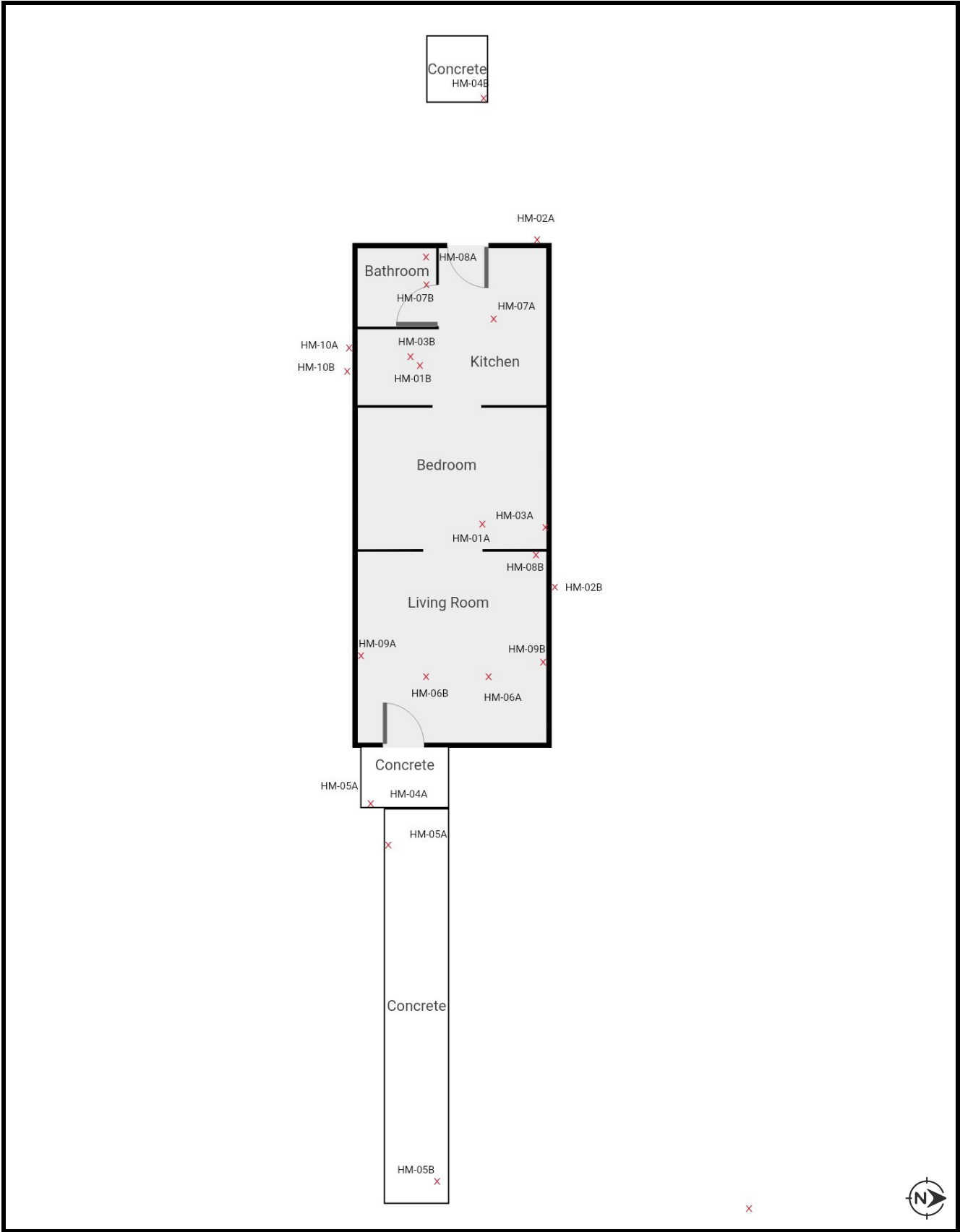
Date: _____

Received by: _____

Date: _____

Attachment B
Site Diagrams

Figure 1 Site Diagram



Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
929 Johnson Ave.
Lansing, MI

Attachment C
ACM Photos



PHOTO: 1
SUBJECT: View of front of the Property.

BY: A. Paquet



PHOTO: 2
SUBJECT: View of Transite Siding

BY: A. Paquet



PHOTO: 3

BY: A. Paquet

SUBJECT: View of Window with Asbestos Glazing

PHOTO: 4

BY: A. Paquet

SUBJECT:

Attachment D
Inspector Certifications/ID's

MICHIGAN DEPARTMENT OF
LABOR AND ECONOMIC OPPORTUNITY

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

Individual Profile for PAQUET, AARON J.

Name and Address

Name

PAQUET, AARON J.

Address

228 WEST BERRY AVENUE
LANSING, MI 48910

License Information

Accreditation Type: Contractor/Supervisor

ID#: A30955

Status: Apprvd - Full

Expiration Date: 2/11/2023

Training Expiration Date: 1/13/2023

Accreditation Type: Inspector

ID#: A30955

Status: Apprvd - Full

Expiration Date: 10/12/2022

Training Expiration Date: 7/16/2022

Accreditation Type: Management Planner

ID#: A30955

Status: Apprvd - Full

Expiration Date: 10/12/2022

Training Expiration Date: 7/16/2022

Environmental and Occupational Consulting and Training of MI, Inc.
2916 Business One Drive
Kalamazoo, MI 49048
269-383-6960

Aaron Paquet

Social Security Number: xxx-xx-2656
Has Successfully Completed

NIOSH 582 Equivalent: Method 7400

On August 29, 2019

In accordance with OSHA Construction Standard 1926.1101;

2018-0243

Certificate Number

Alisa Kahn Klinkel
Alisa Kahn Klinkel

Tables

Table 1 - Summary of Hazardous Materials, 929 Johnson Ave., Lansing, Michigan

Hazardous Materials Description and Location		
Location	Material Description	Quantity
No Hazardous Materials Identified		

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 929 Johnson Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
JA-HM-01A	Asphalt Shingle	No	M	Category I	ND/ND	Exterior	450 sq. ft.
JA-HM-01B	Asphalt Shingle	No	M	Category I	ND/ND	Exterior	NA
JA-HM-02A	Vapor Barrier	Yes	M	Category II	ND	Exterior	675 sq. ft.
JA-HM-02B	Vapor Barrier	Yes	M	Category II	ND	Exterior	NA
JA-HM-03A	Flashing	No	M	Category II	ND	Exterior	15 sq. ft.
JA-HM-03B	Flashing	No	M	Category II	ND	Exterior	NA
JA-HM-04A	Concrete Approach	No	M	Category II	ND	Exterior	30 sq. ft.
JA-HM-04B	Concrete Approach	No	M	Category II	ND	Exterior	NA
JA-HM-05A	Concrete Sidewalk	No	M	Category II	ND	Exterior	75 sq. ft.
JA-HM-05B	Concrete Sidewalk	No	M	Category II	ND	Exterior	NA
JA-HM-06A	Unk. Vinyl Flooring	No	M	Category I	ND	Living	150 sq. ft.
JA-HM-06B	Unk. Vinyl Flooring	No	M	Category I	ND	Living	NA
JA-HM-07A	Black Vinyl	No	M	Category I	ND	Kitchen	130 sq. ft.
JA-HM-07B	Black Vinyl	No	M	Category I	ND	Bathroom	NA
JA-HM-08A	Drywall & Compound	No	M	Category II	ND/ND	Bath Ceiling	1,250 sq. ft.
JA-HM-08B	Drywall & Compound	No	M	Category II	ND	Living Wall	NA
JA-HM-09A	Old Drywall	No	M	Category II	ND	Living Wall	550 sq. ft.
JA-HM-09B	Old Drywall	No	M	Category II	ND	Living Wall	NA
JA-HM-10A	Glazing	Yes	M	Category II	1.5% CH	Kitchen	1 Window
JA-HM-10B	Glazing	Yes	M	Category II	NA	Kitchen	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, 929 Johnson Ave., Lansing, Michigan

Asbestos Containing Material Description and Location					
Location	Material Description	Friable	Condition	Material Type	Approx. Quantity
Building Exterior	Transite Siding	No	Fair	M	675 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, 929 Johnson Ave., Lansing, Michigan

Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Kitchen (1 window 36" wide x 24" tall)	Glazing	Yes	1 Window
	Total		1 Window
Exterior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Building Exterior	Transite Siding	No	675 sq. ft.
	Total		675 sq. ft.

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.



P.O. Box 13216
Lansing, MI 48901
Phone: 888.449.4566
Fax: 888.448.8739
www.redcedarconsulting.net

June 17, 2021

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

RE: *Asbestos Containing Material and Hazardous Materials Inspection*
819 Cleveland St., Lansing, MI 48906
Parcel ID: 33-01-01-10-377-231

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 819 Cleveland 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 .10-acre residential parcel which contains an approximate 906 square foot residential building (the Building) constructed in 1915. The Building was constructed on a concrete basement with two aboveground floors. The exterior walls of the Building were finished with wood lap while the roof was sealed with asphalt shingles. The Building can be further divided into a living room, dining room, kitchen, bath, and rear entry on the first floor while the second floor contains three bedrooms.

Please note this was Building under construction and most of the Lath and Plaster had been previously removed. Also, this is a structurally compromised fire burned building. All abatement contractors should personally assess the site prior to submitting a bid as alternative methods may need to be used for safety reasons.

VISUAL INSPECTION AND SAMPLING

Asbestos Containing Materials Inspection

Aaron Paquet of Red Cedar Consulting (Red Cedar), accredited State Of Michigan/EPA Asbestos Building Inspector (Accreditation Number A30955) who completed training per the Michigan Asbestos Workers Accreditation Act 440, completed an inspection of the Subject Property on June 2, 2021 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:

- Asphalt Shingle
- Vapor Barrier
- Concrete
- 12x12 Vinyl Floor Tile
- 9x9 Vinyl Floor Tile
- Glazing
- Plaster

Red Cedar staff collected twenty-one samples of suspect ACBM separated into ten 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 twenty-one samples is included as Attachment A.

Hazardous Materials Inspection

On June 2, 2021, 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, twenty-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 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 Paper 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

HVAC Paper 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 (misc. HVAC wrap on Basement Framing, 25 sq. ft.)

Category I ACM

A resilient floor covering (9x9 White & Pink VFT/Felt) located within the 2nd Fl. W Bedroom was found to contain up to 5% Chrysotile asbestos. The assessment to quantify the extent of this material identified approximately 180 sq. ft. of this material within the Building.

Category II ACM

Plaster samples, collected from the 2nd Fl. Closet were found to contain up to 1.75% asbestos following analysis. The assessment to quantify the extent of this material identified approximately 140 sq. ft. of plaster within the Building still on the Walls on Ceiling. There is also approximately 1,800 sq. ft. of plaster debris on Basement, 1st and 2nd Floors that needs to be abated.

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.

- B Basement (misc. HVAC wrap on Basement Framing, 25 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 covering (9x9 White & Pink VFT/Felt) is a 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.

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:

- No Hazardous Materials Identified

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

Project No.: 19-1159
Ingham County Land Bank
Parcel ID: 33-01-01-10-377-231

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)

Attachment A
APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 01 Cust. #: CS-HM-01A Material: Grey Roof Shingle Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 94558 - 01a Cust. #: CS-HM-01A Material: Felt Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 35% Other - 65%
Lab ID #: 94558 - 02 Cust. #: CS-HM-01B Material: Grey Roof Shingle Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 94558 - 02a
Cust. #: CS-HM-01B
Material: Felt
Location:
Appearance: black, fibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 35%
Other - 65%

Lab ID #: 94558 - 03
Cust. #: CS-HM-02A
Material: Brown Vapor Barrier
Location:
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 70%
Other - 30%

Lab ID #: 94558 - 04
Cust. #: CS-HM-02B
Material: Brown Vapor Barrier
Location:
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 70%
Other - 30%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 05 Cust. #: CS-HM-03A Material: Garage Pad Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 06 Cust. #: CS-HM-03B Material: Garage Pad Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 07 Cust. #: CS-HM-04A Material: Sidewalk Concrete Location: Sidewalk Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 08 Cust. #: CS-HM-04B Material: Sidewalk Concrete Location: Sidewalk Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 09 Cust. #: CS-HM-05A Material: 12x12 Woodgrain VFT Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 09a Cust. #: CS-HM-05A Material: Glue Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 10 Cust. #: CS-HM-05B Material: 12x12 Woodgrain VFT Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 10a Cust. #: CS-HM-05B Material: Glue Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 11 Cust. #: CS-HM-06A Material: 12x12 Layered Beige VFT Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 6	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 11a Cust. #: CS-HM-06A Material: Glue Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 6	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 11b Cust. #: CS-HM-06A Material: Green Floor Tile Location: Appearance: green,nonfibrous,homogenous Layer: 3 of 6	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 11c Cust. #: CS-HM-06A Material: Glue Location: Appearance: clear,nonfibrous,homogenous Layer: 4 of 6	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 11d Cust. #: CS-HM-06A Material: Red Floor Tile Location: Appearance: red,nonfibrous,homogenous Layer: 5 of 6	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 94558 - 11e Cust. #: CS-HM-06A Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 6 of 6	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 12 Cust. #: CS-HM-06B Material: 12x12 Layered Beige VFT Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 6	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 12a Cust. #: CS-HM-06B Material: Glue Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 6	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 12b Cust. #: CS-HM-06B Material: Green Floor Tile Location: Appearance: green,nonfibrous,homogenous Layer: 3 of 6	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 12c Cust. #: CS-HM-06B Material: Glue Location: Appearance: clear,nonfibrous,homogenous Layer: 4 of 6	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 12d Cust. #: CS-HM-06B Material: Red Floor Tile Location: Appearance: red,nonfibrous,homogenous Layer: 5 of 6	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 94558 - 12e Cust. #: CS-HM-06B Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 6 of 6	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 13 Cust. #: CS-HM-07A Material: 9x9 White & Pink VFT Location: Appearance: red,fibrous,homogenous Layer: 1 of 3	Asbestos Present: YES Chrysotile - 5%	Other - 95%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 13a Cust. #: CS-HM-07A Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 94558 - 13b Cust. #: CS-HM-07A Material: Felt Location: Appearance: black,fibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 94558 - 14 Cust. #: CS-HM-07B Material: 9x9 White & Pink VFT Location: Appearance: Layer: 1 of 3	Asbestos Present: NOT ANALYZED	

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 14a Cust. #: CS-HM-07B Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 94558 - 14b Cust. #: CS-HM-07B Material: Felt Location: Appearance: black,fibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 94558 - 15 Cust. #: CS-HM-08A Material: Concrete Location: Basement Floor Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 16 Cust. #: CS-HM-08B Material: Concrete Location: Basement Floor Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94558 - 17 Cust. #: CS-HM-09A Material: Window Glazing Location: Basement Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 94558 - 18 Cust. #: CS-HM-09B Material: Window Glazing Location: Basement Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 819 Cleveland St.



Report To:

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

ARI Report # 21-94558
Date Collected: 06/02/21
Date Received: 06/03/21
Date Analyzed: 06/07/21
Date Reported: 06/08/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94558 - 19 Cust. #: CS-HS-01A Material: Plaster Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 1.75% POINT COUNT RESULT	Cellulose - 5% Other - 93.25%
Lab ID #: 94558 - 20 Cust. #: CS-HS-01B Material: Plaster Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 94558 - 21 Cust. #: CS-HS-01C Material: Plaster Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

94558

1 of 2

ARFLX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991



Client Name: Red Cedar Consulting

Date of Survey: 6.2.21

Address:

PO Box 13216

Project: 819 Cleveland St

City, St, Zip:

Lansing, MI 48901

Project #:

Phone: (888) 449-4566

Fax: (888) 448-8739

Contact Person: Aaron Paquet

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM. labdata@redcedarconsulting.net

Rush

24 hour

Asbestos: Bulk

x

Wipe

Point Count

PCM

Lead: Bulk

Wipe

Air

Paint

Soil

48 hour

72 hour

Mold: Bulk

Tape

Biosis

Other

Viable

Other:

TTP

All Samples

TEM:

AHERA 7400

Bulk/NOB

EPA Level II

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	CS-HM-01A	Heavy Roof Shingles			
	01B	" "			
	02A	Brown Vague Bricks			
	02B	" "			
	03A	Heavy Pad Concrete			
	03B	" "			
	04A	Asphalt Concrete			
	04B	" "			
	05A	12x12 Woodgrain VET			
	05B	" "			
	06A	12x12 Scaled Brick VET			

RECEIVED

Relinquished by:

Received by:

Relinquished by:

Received by:

Date: 6.2.21

Date: 6.2.21

Date:

Date:



APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991

Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 6-2-21

Project: 8192 Cleveland St

Project #:

Contact Person: Aaron Paquet

Lab Use Only
Log-In
Report

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM.

Rush 24 hour

48 hour 72 hour

Other: TTP All Samples

Asbestos: Bulk ☒ Wipe ☐ Point Count ☐ PCM ☐
Lead: Bulk ☐ Wipe ☐ Air ☐ Paint ☐ Soil ☐
Mold: Bulk ☐ Tape ☐ Biosis ☐ Other ☐ Viable ☐
TEM: AHERA 7400 Bulk/NOB EPA Level II

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	CS-HM-06B	12x18 Bagged Bag V/ST			
	CS-HM-07A	9x9 White + White V/ST/gold			
	07B	" " " "			
	08A	Asbestos (Bent floor)			
	08B	" " " "			
	09A	Bent Window Sliding			
	09B	" " " "			
	CS-HS-01A	Plaster			
	01B	" "			
	01C	" "			

RECEIVED

Relinquished by: [Signature]

JUN 03 2021

Relinquished by:

Received by:

Date: 6-2-21

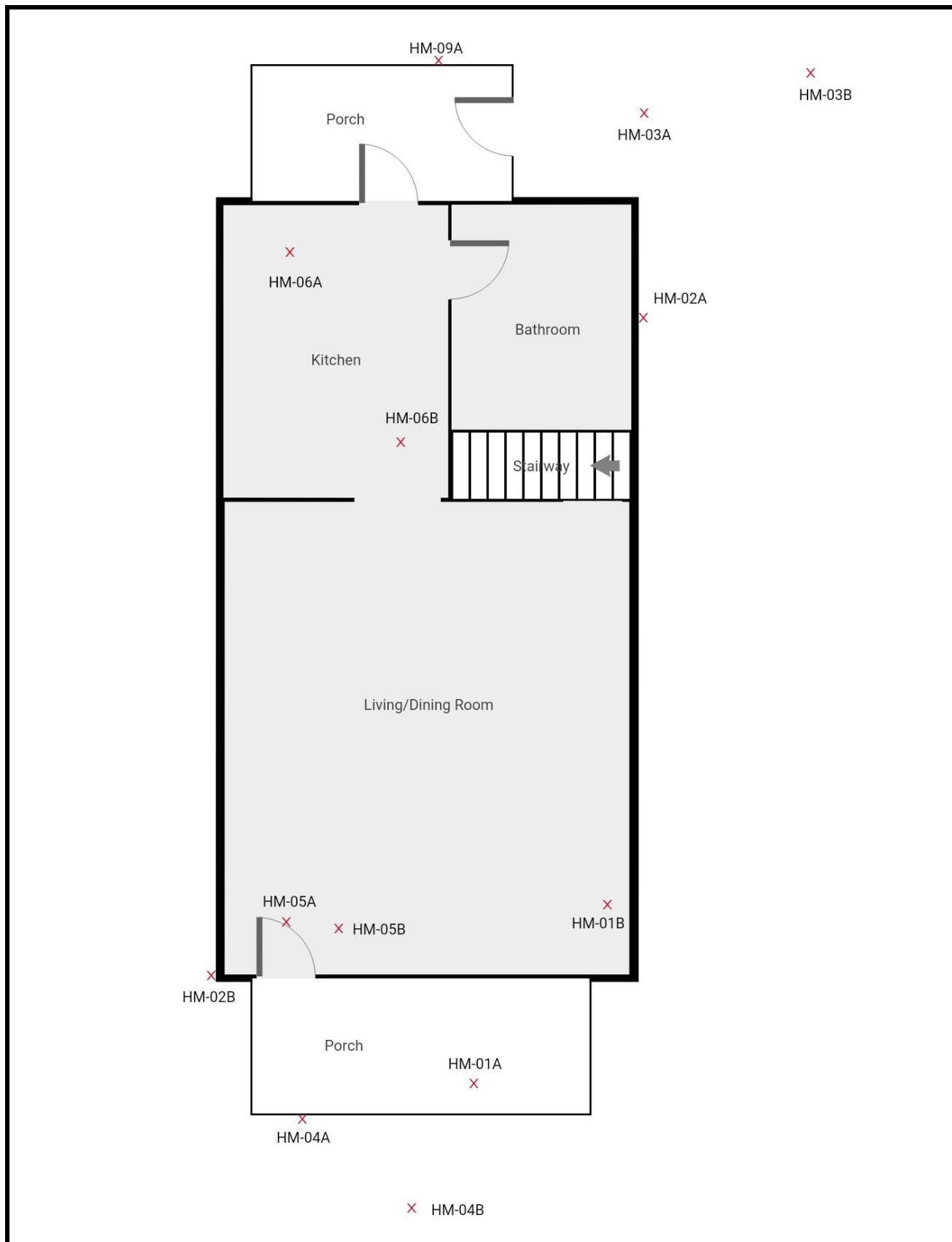
Date: 6-2-21

APEX RESEARCH

Date:

Attachment B
Site Diagrams

Figure 1a Site Diagram



Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
819 Cleveland St.
Lansing, MI

Figure 1b Site Diagram

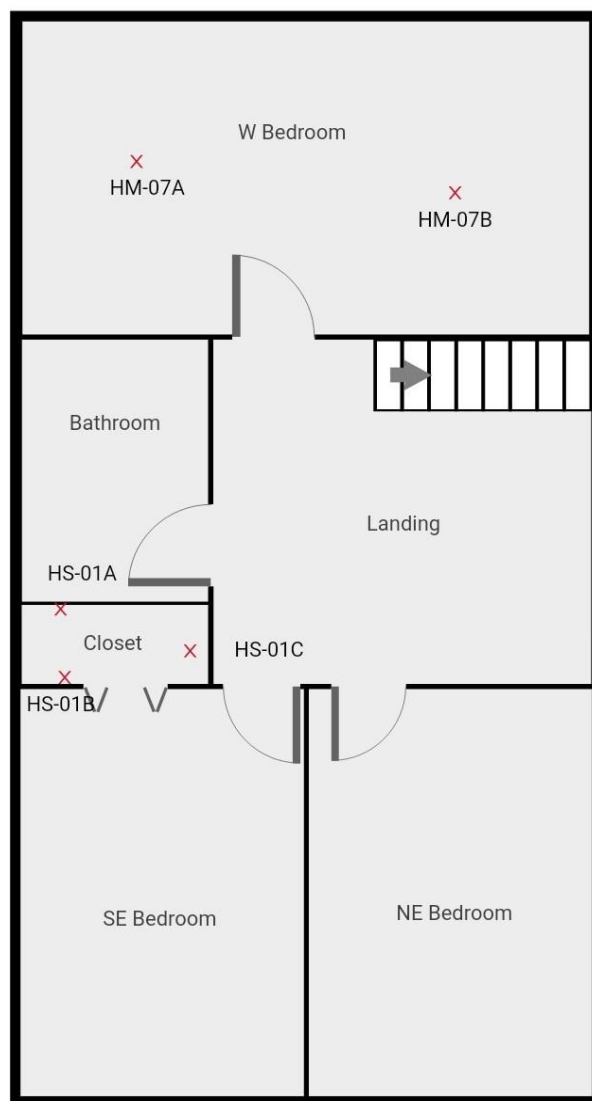
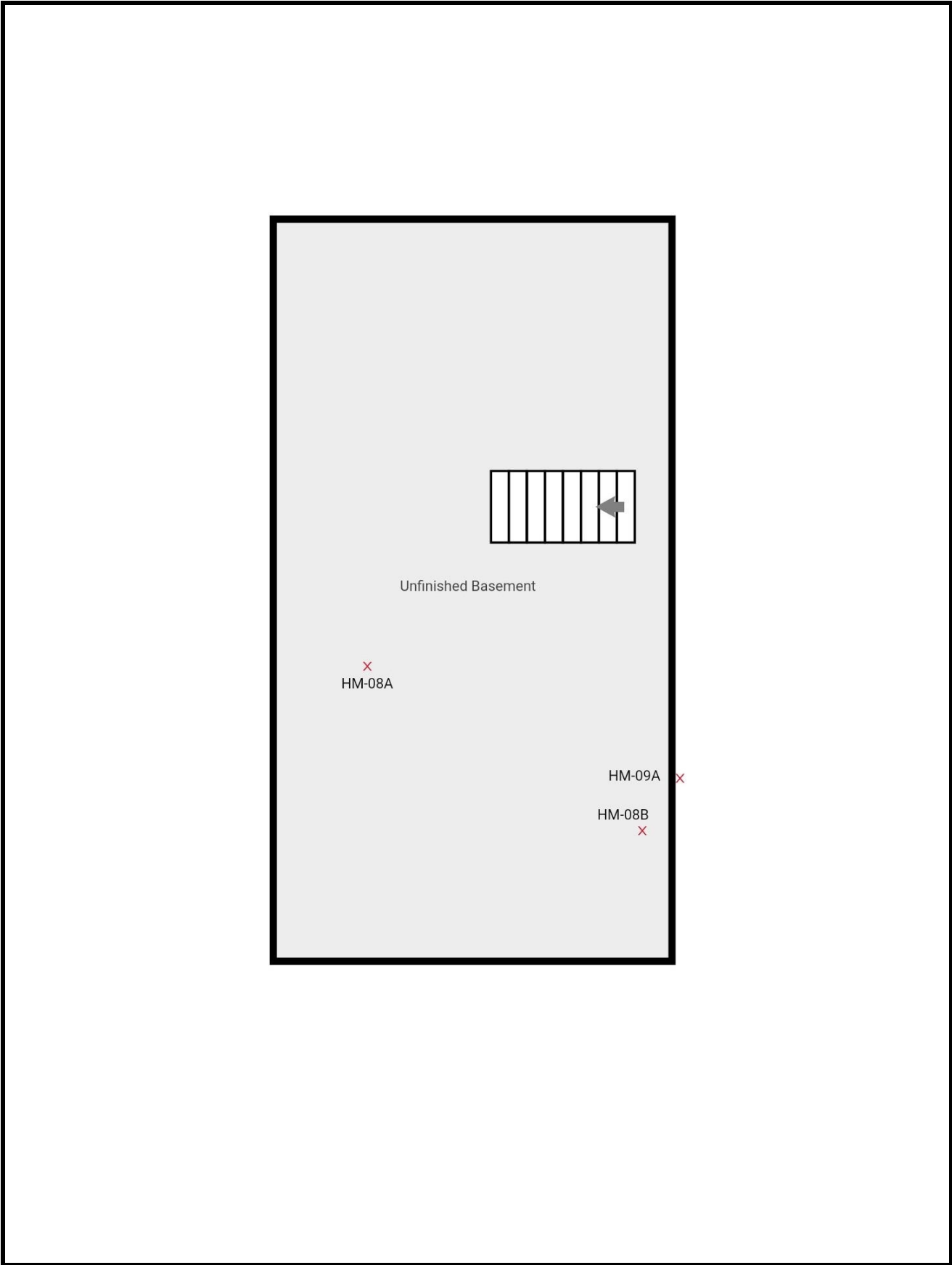


Figure 1c Site Diagram



Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
819 Cleveland St.
Lansing, MI

Attachment C
ACM Photos



PHOTO: 1
SUBJECT: View of front of the Property.

BY: A. Paquet



PHOTO: 2
SUBJECT: Fire Damaged Stairwell

BY: A. Paquet



PHOTO: 3

BY: A. Paquet

SUBJECT: 9x9 White & Pink VFT 2nd Fl. W Bedroom



PHOTO: 4

BY: A. Paquet

SUBJECT: HVAC Paper in Basement



PHOTO: 5
SUBJECT: Plaster in Closet 2nd Floor

BY: A. Paquet



PHOTO: 6
SUBJECT: Plaster Debris in Basement

BY: A. Paquet



PHOTO: 7

BY: A. Paquet

SUBJECT: Plaster and General Debris In Kitchen

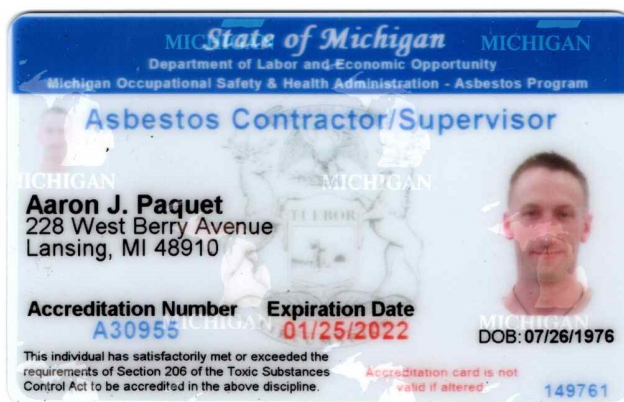
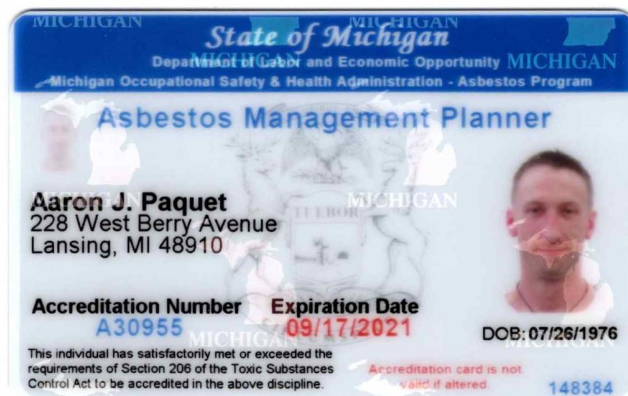


PHOTO: 8

BY: A. Paquet

SUBJECT: Plaster debris Basement Floor

Attachment D
Inspector Certifications/ID's



Tables

Table 1 - Summary of Hazardous Materials, 819 Cleveland St., Lansing, Michigan

Hazardous Materials Description and Location		
Location	Material Description	Quantity
No Hazardous Materials Identified		

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 819 Cleveland St., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
CS-HM-01A	Gray Roof Shingle	No	M	Category I	ND/ND	Exterior	1,150 sq. ft.
CS-HM-01B	Gray Roof Shingle	No	M	Category I	ND/ND	Exterior	NA
CS-HM-02A	Brown Vapor Barrier	Yes	M	Category II	ND	Exterior	650 sq. ft.
CS-HM-02B	Brown Vapor Barrier	Yes	M	Category II	ND	Exterior	NA
CS-HM-03A	Garage Pad Concrete	No	M	Category II	ND	Exterior	500 sq. ft.
CS-HM-03B	Garage Pad Concrete	No	M	Category II	ND	Exterior	NA
CS-HM-04A	Sidewalk Concrete	No	M	Category II	ND	Exterior	260 sq. ft.
CS-HM-04B	Sidewalk Concrete	No	M	Category II	ND	Exterior	NA
CS-HM-05A	12x12 Woodgrain VFT	No	M	Category I	ND/ND	Living	360 sq. ft.
CS-HM-05B	12x12 Woodgrain VFT	No	M	Category I	ND/ND	Living	NA
CS-HM-06A	12x12 Layered Beige VFT	No	M	Category I	ND/ND/ND/N D/ND/ND	Kitchen	130 sq. ft.
CS-HM-06B	12x12 Layered Beige VFT	No	M	Category I	ND/ND/ND/N D/ND/ND	Kitchen	NA
CS-HM-07A	9x9 White & Pink VFT/Felt	No	M	Category I	5%/ND/ND	2 nd Fl. W Bedroom	180 sq. ft.
CS-HM-07B	9x9 White & Pink VFT/Felt	No	M	Category I	NA/ND/ND	2 nd Fl. W Bedroom	NA
CS-HM-08A	Concrete (Bsmt. Floor)	No	M	Category II	ND	Basement	905 sq. ft.
CS-HM-08B	Concrete (Bsmt. Floor)	No	M	Category II	ND	Basement	NA
CS-HM-09A	Bsmt. Window Glazing	Yes	M	Category II	ND	Basement	4 Windows
CS-HM-09B	Bsmt. Window Glazing	Yes	M	Category II	ND	Basement	NA
CS-HS-01A	Plaster	No	S	Category II	1.75% CH	2 nd FL. SE Bedroom Closet Ceiling	140 sq. ft. on Walls 1,800 sq. ft. Floor Cleanup
CS-HS-01B	Plaster	No	S	Category II	NA	2 nd FL. SE Bedroom Closet Wall	NA
CS-HS-01C	Plaster	No	S	Category II	NA	2 nd FL. SE Bedroom Closet Wall	NA

Notes:

Material Types

M = Miscellaneous building material

Abbreviations

NQ = Not quantified

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 819 Cleveland St., Lansing, Michigan

TSI = Thermal System Insulation
S = Surfacing Material
PC = Point Count Analysis
CH = Chrysotile Asbestos

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, 819 Cleveland St., Lansing, Michigan

Asbestos Containing Material Description and Location					
Location	Material Description	Friable	Condition	Material Type	Approx. Quantity
Basement (misc. HVAC wrap on Basement Framing, 25 sq. ft.)	HVAC Paper	Yes	Fair	TSI	25 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, 819 Cleveland St., Lansing, Michigan

Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
2 nd Fl. W Bedroom	9x9 White & Pink VFT/Felt	No	180 sq. ft.
Total			180 sq. ft.
Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Basement (misc. HVAC wrap on Basement Framing, 25 sq. ft.)	HVAC Paper	Yes	25 sq. ft.
Total			25 sq. ft.
Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
2 nd Floor	Plaster	No	140 sq. ft.
Basement, 1 st Floor, 2 nd Floor	Plaster Remnants/Debris	No	1,800 sq. ft.
Total			1,940 sq. ft.

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.



P.O. Box 13216
Lansing, MI 48901
Phone: 888.449.4566
Fax: 888.448.8739
www.redcedarconsulting.net

May 2, 2022

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

RE: *Asbestos Containing Material and Hazardous Materials Inspection*
616 S Mifflin Ave., Lansing, MI 48912
Parcel ID: 33-01-01-14-381-231

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 616 S Mifflin Ave., 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 .11-acre residential parcel which contains a 280 sq. ft. detached garage and approximate 720 square foot residential building (the Building) constructed in 1954. The Building was constructed on a concrete crawlspace with two aboveground floors. The exterior walls of the Building were finished with plaster over concrete block while the roof was sealed with asphalt shingles. The Building can be further divided into a living room, kitchen/dining, bath, two bedrooms and a rear entry on the first floor while the second floor contains one bedroom.

VISUAL INSPECTION AND SAMPLING

Asbestos Containing Materials Inspection

Aaron Paquet of Red Cedar Consulting (Red Cedar), accredited State Of Michigan/EPA Asbestos Building Inspector (Accreditation Number A30955) who completed training per the Michigan Asbestos Workers Accreditation Act 440, completed an inspection of the Subject Property on April 27, 2022 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:

- Asphalt Shingle
- Fiberboard
- Trim Caulk
- Concrete
- Flashing
- Garage Shingle
- 12x12 Vinyl Floor Tile
- Old Drywall & Compound
- Drywall & Compound
- Glazing
- Sink Undercoat
- Metal Window Glazing
- Plaster

Red Cedar staff collected forty-three samples of suspect ACBM separated into twenty 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-three samples is included as Attachment A.

Hazardous Materials Inspection

On April 27, 2022, 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-three 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 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.

No PACM was identified during the completion of this inspection. All suspect materials identified were sampled and analyzed for ACM.

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

No friable ACM's were identified during the completion of this inspection.

Category I ACM

A resilient floor covering (Tan 12x12 VFT (under a raised floor system)) located within the Living Room and Side Entry was found to contain up to 2.5% Chrysotile asbestos. The assessment to quantify the extent of this material identified approximately 235 sq. ft. of this material within the Building.

Category II ACM

Drywall Compound samples, collected from the Building were found to contain up to 1.25% asbestos following analysis. The assessment to quantify the extent of this material identified approximately 3,425 sq. ft. of drywall compound within the Building.

Kitchen Sink Undercoat samples, collected from Building were found to contain up to 15% asbestos following analysis. The assessment to quantify the extent of this material identified one sink within the Building.

RECOMMENDATIONS

Asbestos Containing Materials

Drywall Compound 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.

Kitchen Sink Undercoat 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 covering (Tan 12x12 VFT (under a raised floor system)) is a non-friable ACM 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.

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:

- Automobile Tire (4)
- 5-Gallon Container Misc. (1)
- Gallon Container Misc. (4)
- Spray Can Misc. (12)
- Thermostat (1)
- Smoke Detector (1)
- Television (2)
- 4' Fluorescent Light (Fixture and Ballast Only) (3)
- 4' Fluorescent Bulb (6)

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

MIOSHA-CSHD-Asbestos Program
State of Michigan

Project No.: 19-1159
Ingham County Land Bank
Parcel ID: 33-01-01-14-381-231

Phone: 517-284-6777

Phone: 517-284-7680
Email: asbestos@michigan.gov

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. 10-12-2022)

Attachment A
APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 01 Cust. #: SM-HM-01A Material: Roofing Shingle Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 15% Other - 85%
Lab ID #: 99483 - 01a Cust. #: SM-HM-01A Material: Tar Paper Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 99483 - 02 Cust. #: SM-HM-01B Material: Roofing Shingle Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 15% Other - 85%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 02a Cust. #: SM-HM-01B Material: Tar Paper Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 99483 - 03 Cust. #: SM-HM-02A Material: Fiberboard Siding Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 99483 - 04 Cust. #: SM-HM-02B Material: Fiberboard Siding Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 05 Cust. #: SM-HM-03A Material: Trim Caulk Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 06 Cust. #: SM-HM-03B Material: Trim Caulk Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 07 Cust. #: SM-HM-04A Material: N. Driveway Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 3 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 08 Cust. #: SM-HM-04B Material: N. Driveway Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 09 Cust. #: SM-HM-05A Material: Front Drive/Sidewalk Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 10 Cust. #: SM-HM-05B Material: Front Drive/Sidewalk Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99483 - 11
Cust. #: SM-HM-06A
Material: Flashing
Location:
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 25%
Other - 75%

Lab ID #: 99483 - 12
Cust. #: SM-HM-06B
Material: Flashing
Location:
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 25%
Other - 75%

Lab ID #: 99483 - 13
Cust. #: SM-HM-07A
Material: Garage Shingle
Location:
Appearance: black, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 20%
Other - 80%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 14 Cust. #: SM-HM-07B Material: Garage Shingle Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99483 - 15 Cust. #: SM-HM-08A Material: Garage Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 16 Cust. #: SM-HM-08B Material: Garage Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99483 - 17
Cust. #: SM-HM-09A
Material: Red 12x12 VFT
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 99483 - 17a
Cust. #: SM-HM-09A
Material: Mastic
Location:
Appearance: clear,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 99483 - 18
Cust. #: SM-HM-09B
Material: Red 12x12 VFT
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 18a Cust. #: SM-HM-09B Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 19 Cust. #: SM-HM-10A Material: Tan 12x12 VFT Location: Appearance: beige,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 2.50% POINT COUNT RESULT	Other - 97.50%
Lab ID #: 99483 - 19a Cust. #: SM-HM-10A Material: Mastic Location: Appearance: beige,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99483 - 20
Cust. #: SM-HM-10B
Material: Tan 12x12 VFT
Location:
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 99483 - 20a
Cust. #: SM-HM-10B
Material: Mastic
Location:
Appearance: beige, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 99483 - 21
Cust. #: SM-HM-11A
Material: Tan/Stone 12x12 VFT
Location:
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Synthetic - 2%
Other - 98%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 21a Cust. #: SM-HM-11A Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 22 Cust. #: SM-HM-11B Material: Tan/Stone 12x12 VFT Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Synthetic - 2% Other - 98%
Lab ID #: 99483 - 22a Cust. #: SM-HM-11B Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 10 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 23 Cust. #: SM-HM-12A Material: Old Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99483 - 23a Cust. #: SM-HM-12A Material: Joint Compound Location: Appearance: beige, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 1.25% POINT COUNT RESULT	Other - 98.75%
Lab ID #: 99483 - 24 Cust. #: SM-HM-12B Material: Old Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 11 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99483 - 24a
Cust. #: SM-HM-12B
Material: Joint Compound
Location:
Appearance:
Layer: 2 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 99483 - 25
Cust. #: SM-HM-13A
Material: Drywall
Location:
Appearance: beige, fibrous, nonhomogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 20%
Other - 80%

Lab ID #: 99483 - 25a
Cust. #: SM-HM-13A
Material: Joint Compound
Location:
Appearance: white, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 26 Cust. #: SM-HM-13B Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99483 - 26a Cust. #: SM-HM-13B Material: Joint Compound Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 27 Cust. #: SM-HM-14A Material: Fiberboard Paneling Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 13 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 28 Cust. #: SM-HM-14B Material: Fiberboard Paneling Location: Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 99483 - 28a Cust. #: SM-HM-14B Material: Joint Compound Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 29 Cust. #: SM-HM-15A Material: Glazing Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 2% Other - 98%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 14 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 30 Cust. #: SM-HM-15B Material: Glazing Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 2% Other - 98%
Lab ID #: 99483 - 31 Cust. #: SM-HM-16A Material: Sink Undercoat Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 15%	Other - 85%
Lab ID #: 99483 - 32 Cust. #: SM-HM-16B Material: Sink Undercoat Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 15 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 33 Cust. #: SM-HM-17A Material: Red Brick Location: Appearance: red,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 33a Cust. #: SM-HM-17A Material: Mastic Location: Appearance: black,fibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Synthetic - 2% Other - 98%
Lab ID #: 99483 - 34 Cust. #: SM-HM-17B Material: Red Brick Location: Appearance: red,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 16 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 34a Cust. #: SM-HM-17B Material: Mastic Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Synthetic - 5% Other - 95%
Lab ID #: 99483 - 35 Cust. #: SM-HM-18A Material: Metal Window Glazing Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 2% Other - 98%
Lab ID #: 99483 - 36 Cust. #: SM-HM-18B Material: Metal Window Glazing Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 17 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 37 Cust. #: SM-HM-19A Material: Patch Glazing Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 2% Other - 98%
Lab ID #: 99483 - 38 Cust. #: SM-HM-19B Material: Patch Glazing Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 2% Other - 98%
Lab ID #: 99483 - 39 Cust. #: SM-HS-01A Material: Exterior Plaster Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Page 18 of 20

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99483 - 40 Cust. #: SM-HS-01B Material: Exterior Plaster Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 41 Cust. #: SM-HS-01C Material: Exterior Plaster Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 99483 - 42 Cust. #: SM-HS-01D Material: Exterior Plaster Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 616 S. Mifflin Ave.



Report To:

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

ARI Report # 22-99483
Date Collected: 04/27/22
Date Received: 04/28/22
Date Analyzed: 04/28/22
Date Reported: 04/29/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 99483 - 43
Cust. #: SM-HS-01E
Material: Exterior Plaster
Location:
Appearance: grey, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

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

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990
E-mail: apexresearch@chartermi.net Fax: 734-449-9991

pg 1 of 4



Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 4-27-22

Project: 66 S. Miffin Ave.

Project #:

Contact Person: Aaron Paquet

Turn Around Times: (Circle One) PLM EPA 600, PC all samples with a detection of <5% ACM.
labdata@redcedarconsulting.net

Rush 24 hour

48 hour 72 hour

Other: (TTP) All Samples

Asbestos: Bulk x Wipe Point Count PCM

Lead: Bulk Wipe Air Paint Soil

Mold: Bulk Tape BioSIS Other Viable

TEM: AHERA 7400 Bulk/NOB EPA Level II

Lab Use Only
Log-In _____
Report _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	SM-44M-61A	Roofing Shingle			
	01B	" "			
	02A	Fiberboard Siding			
	02B	" "			
	03A	Trim Cawk			
	03B	" "			
	04A	N. Drive w/Concrete			
	04B	" "			
	05A	Front Drive/Sidewalk/Concrete			
	05B	" "			
	06A	Flashing			

RECEIVED

APR 28 2022

Relinquished by: UPS Received by: UPS

Date: 4-27-22 Date: 4-27-22

Relinquished by: UPS Received by: UPS

Date: 4-27-22 Date: 4-27-22



APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990
E-mail: apexresearch@chartermi.net Fax: 734-449-9991

Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 4-27-22

Project: 666 Siffain Ave.

Project #:

Contact Person: Aaron Paquet

Turn Around Times: (Circle One) PLM EPA 600, PC all samples with a detection of <5% ACM. labdata@redcedarconsulting.net

Rush 24 hour

48 hour

Other: (TTP) All Samples

Asbestos: Bulk x Wipe Point Count PCM
Lead: Bulk Wipe Air Paint Soil
Mold: Bulk Tape BioSIS Other Viable
TEM: AHERA 7400 Bulk/NOB EPA Level II

Lab Use Only
Log-In
Report

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
SM-HM-06B	07A	Fleshing			
	07B	Garage Shingle			
	08A	Garage Concrete			
	08B	"			
	09A	Red 12x12 VFT			
	09B	"			
	10A	Tan 12x12 VFT			
	10B	"			
	11A	Tan/Stone 12x12 VFT			
	11B	"			
					RECEIVED

Relinquished by: [Signature] Received by: VPS

Date: 4-27-22 Date: 4-27-22

Relinquished by: Received by: APR 28 2022

Date: Date: APEX RES



Apex Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991

Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 4-27-22

Project: 616 S Millin Ave.

Project #:

Contact Person: Aaron Paquet

Turn Around Times: (Circle One) PLM EPA 600, PC all samples with a detection of <5% ACM. labdata@redcedarconsulting.net

Rush 24 hour

48 hour

Other: TTP All Samples

Asbestos: Bulk x Wipe Point Count PCM

Lead: Bulk Wipe Air Paint Soil

Mold: Bulk Tape BioSIS Other Viable

TEM: AHERA 7400 Bulk/NOB EPA Level II

Lab Use Only
Log-In
Report

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	SM-WM-12A	Old Drywall Comp, " "			
	12A				
	13A	Drywall & Compound " "			
	13B				
	14A	Fiberboard Paneling " "			
	14B				
	15A	Ceiling " "			
	15B				
	16A	Sink Undercoat " "			
	16B				
	17A	Red Brick/Mastic			
					RECEIVED

APR 28 2022

Relinquished by: VPB Received by: VPB

Date: 4/27/22 Date: 4/27/22

Relinquished by: Received by:
Date: Date:

Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net Fax: 734-449-9991



Client Name: Red Cedar Consulting

Address: PO Box 13216

City, St., Zip: Lansing, MI 48901

Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 4-27-22

Project: 616 S Mission Ave.

Project #:

Contact Person: Aaron Paquet

labdata@redcedarconsulting.net
PC all samples with a detection of <5% ACM.

Turn Around Times: (Circle One)

Asbestos: Bulk x Wipe Point Count PCM

Lead: Bulk Wipe Air Paint Soil

Mold: Bulk Tape BioSIS Other Viable

TEM: AHERA 7400 Bulk/NOB EPA Level II

☒ 24 hour

48 hour

Other: ☒ All Samples
 Lab Use Only
 Log-In _____
 Report _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	SM-14-17B	2nd Brk/moat			
	18A	Metal Window Glazing			
	18B	"			
	19A	Patch Colazing			
	19B	"			
	SM-15-01A	Extension Plaster			
	01B	"			
	01C	"			
	01D	"			
	01E	"			
					RECEIVED

APR 28 2022

Relinquished by: CM Received by: UB

Date: 4-27-22 Date: 4-27-22

Relinquished by: _____

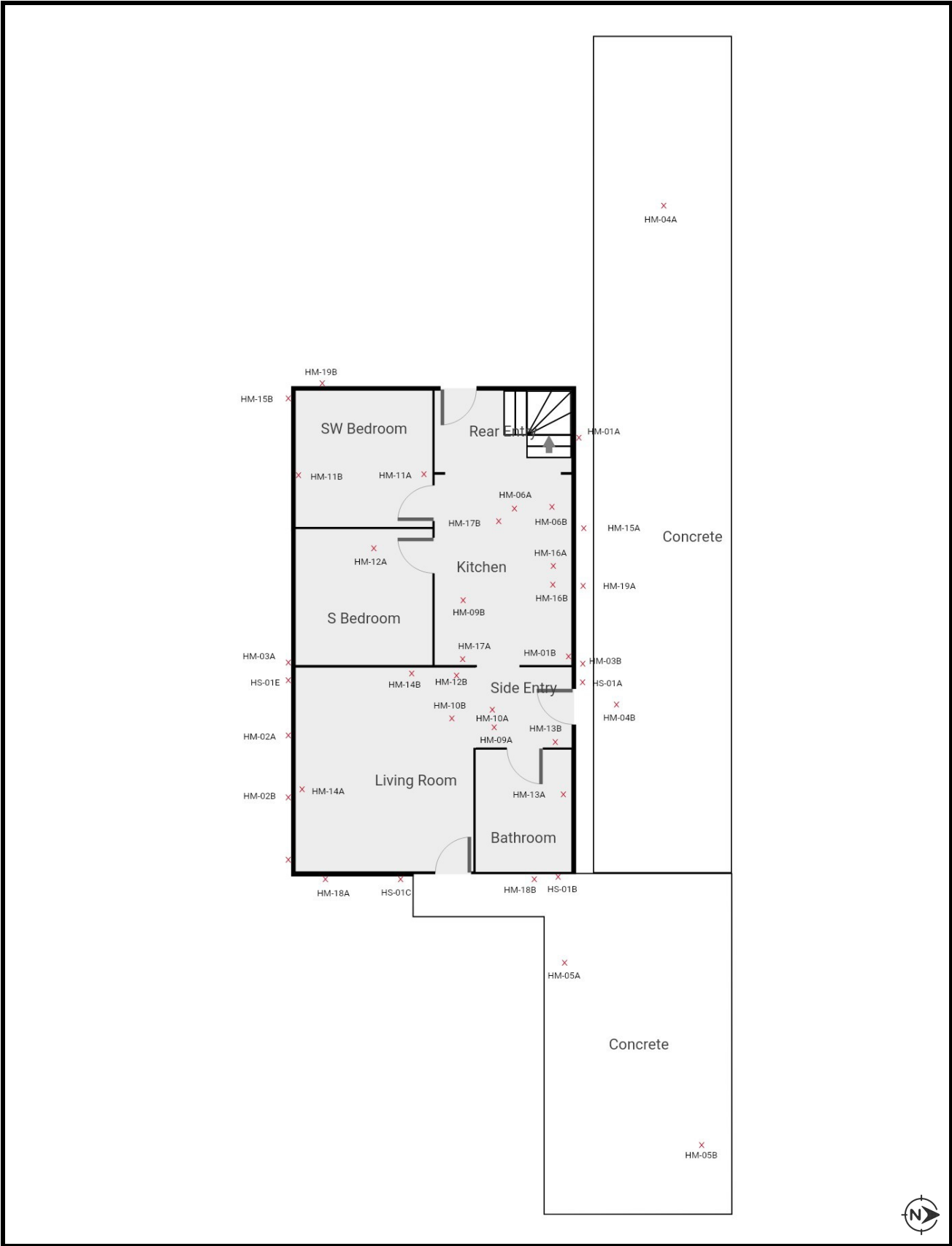
Date: _____

Received by: APEX RESEARCH

Date: _____

Attachment B
Site Diagrams

Figure 1a Site Diagram

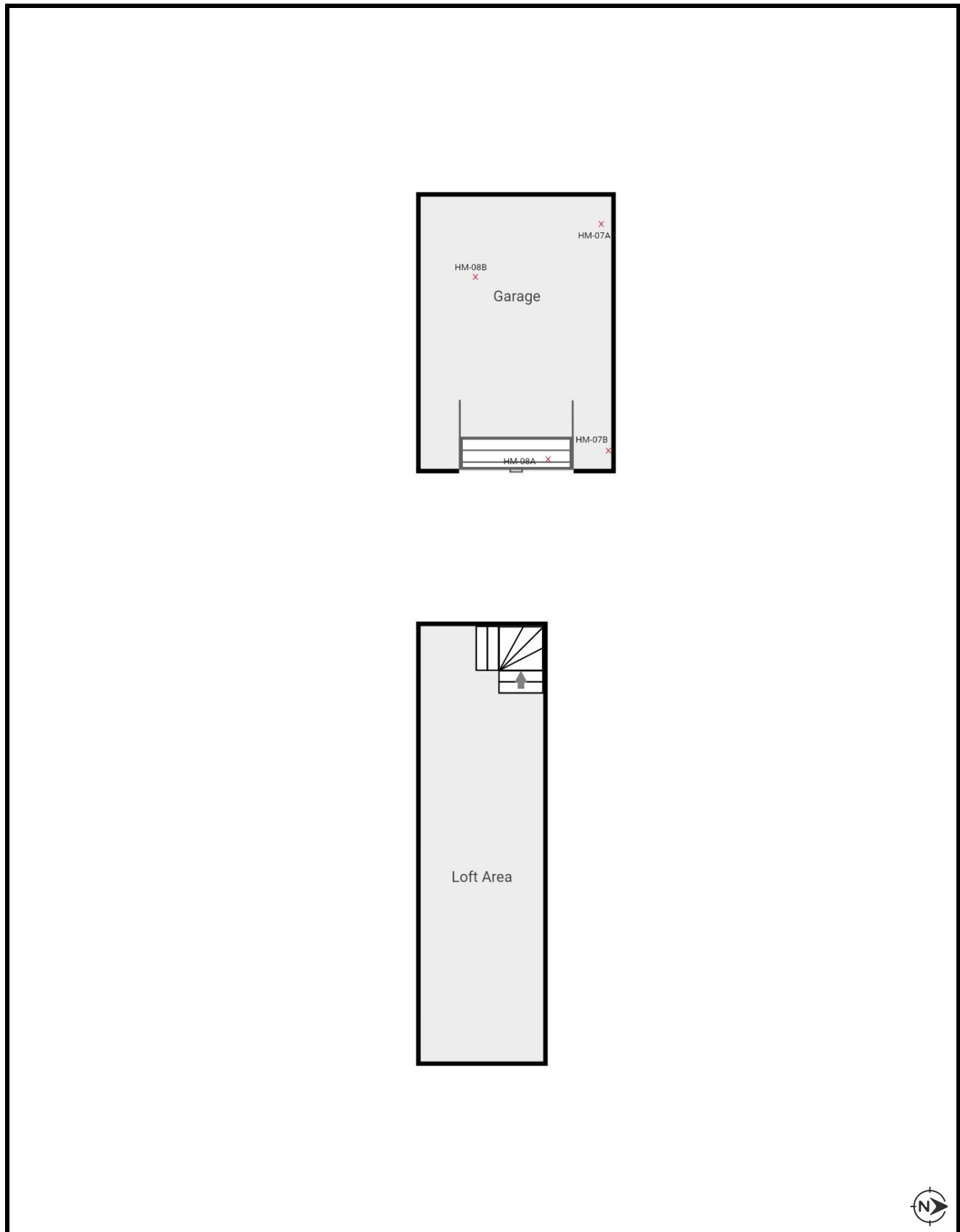


Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
616 S Mifflin Ave.
Lansing, MI

Figure 1b Site Diagram



Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
616 S Mifflin Ave.
Lansing, MI

Attachment C
ACM Photos



PHOTO: 1

BY: A. Paquet

SUBJECT: View of front of the Property.



PHOTO: 2

BY: A. Paquet

SUBJECT: View of Drywall & Compound in Living Room



PHOTO: 3

BY: A. Paquet

SUBJECT: View of raised floor in Living Room on top of Tan 12x12 VFT



PHOTO: 4

BY: A. Paquet

SUBJECT: View of Pebbled Tan 12x12 VFT in Side Entry



PHOTO: 5

BY: A. Paquet

SUBJECT: Kitchen sink with Asbestos Undercoat

PHOTO: 6

BY: A. Paquet

SUBJECT:

Attachment D
Inspector Certifications/ID's

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

Individual Profile for PAQUET, AARON J.

Name and Address

Name

PAQUET, AARON J.

Address

228 WEST BERRY AVENUE
LANSING, MI 48910

License Information

Accreditation Type: Contractor/Supervisor

ID#: A30955

Status: Apprvd - Full

Expiration Date: 2/11/2023

Training Expiration Date: 1/13/2023

Accreditation Type: Inspector

ID#: A30955

Status: Apprvd - Full

Expiration Date: 10/12/2022

Training Expiration Date: 7/16/2022

Accreditation Type: Management Planner

ID#: A30955

Status: Apprvd - Full

Expiration Date: 10/12/2022

Training Expiration Date: 7/16/2022

Environmental and Occupational Consulting and Training of MI, Inc.
2916 Business One Drive
Kalamazoo, MI 49048
269-383-6960

Aaron Paquet

Social Security Number: xxx-xx-2656
Has Successfully Completed

NIOSH 582 Equivalent: Method 7400

On August 29, 2019

In accordance with OSHA Construction Standard 1926.1101;

2018-0243

Certificate Number

Alisa Kahn Klinkel
Alisa Kahn Klinkel

Tables

Table 1 - Summary of Hazardous Materials, 616 S Mifflin Ave., Lansing, Michigan

Hazardous Materials Description and Location		
Location	Material Description	Quantity
Garage	Automobile Tire	4
Garage	5-Gallon Container Misc.	1
Garage	Gallon Container Misc.	4
Garage	Spray Can Misc.	12
Living	Thermostat	1
2 nd Fl.	Smoke Detector	1
2 nd Fl.	Television	2
2 nd Fl.	4' Fluorescent Light (Fixture and Ballast Only)	3
2 nd Fl.	4' Fluorescent Bulb	6

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 616 S Mifflin Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
SM-HM-01A	Roofing Shingle	No	M	Category I	ND/ND	Exterior	1,300 sq. ft.
SM-HM-01B	Roofing Shingle	No	M	Category I	ND/ND	Exterior	NA
SM-HM-02A	Fiberboard Siding	Yes	M	Category II	ND	Exterior	125 sq. ft.
SM-HM-02B	Fiberboard Siding	Yes	M	Category II	ND	Exterior	NA
SM-HM-03A	Trim Caulk	No	M	Category II	ND	Exterior	20 lin. ft.
SM-HM-03B	Trim Caulk	No	M	Category II	ND	Exterior	NA
SM-HM-04A	N Driveway Concrete	No	M	Category II	ND	Exterior	600 sq. ft.
SM-HM-04B	N Driveway Concrete	No	M	Category II	ND	Exterior	NA
SM-HM-05A	Front Drive/Sidewalk Concrete	No	M	Category II	ND	Exterior	350s sq. ft.
SM-HM-05B	Front Drive/Sidewalk Concrete	No	M	Category II	ND	Exterior	NA
SM-HM-06A	Flashing	No	M	Category I	ND	Exterior	15 sq. ft.
SM-HM-06B	Flashing	No	M	Category I	ND	Exterior	NA
SM-HM-07A	Garage Shingle	No	M	Category II	ND	Garage Exterior	450 sq. ft.
SM-HM-07B	Garage Shingle	No	M	Category II	ND	Garage Exterior	NA
SM-HM-08A	Garage Concrete	No	M	Category II	ND	Garage	300 sq. ft.
SM-HM-08B	Garage Concrete	No	M	Category II	ND	Garage	NA
SM-HM-09A	Red 12x12 VFT	No	M	Category I	ND/ND	Side Entry	36 sq. ft.
SM-HM-09B	Red 12x12 VFT	No	M	Category I	ND/ND	Kitchen	NA
SM-HM-10A	Tan 12x12 VFT	No	M	Category I	2.5% CH/ND	Side Entry	235 sq. ft.
SM-HM-10B	Tan 12x12 VFT	No	M	Category I	NA/ND	Living	NA
SM-HM-11A	Tan/Stone 12x12 VFT	No	M	Category I	ND/ND	SW Bedroom	100 sq. ft.
SM-HM-11B	Tan/Stone 12x12 VFT	No	M	Category I	ND/ND	SW Bedroom	NA
SM-HM-12A	Old Drywall & Compound	No	M	Category II	ND/1.25% CH	SW Bedroom Ceiling	3,425 sq. ft.
SM-HM-12B	Old Drywall & Compound	No	M	Category II	ND/NA	Living Ceiling	NA
SM-HM-13A	Drywall & Compound	No	M	Category II	ND/ND	Bath Ceiling	375 sq. ft.
SM-HM-13B	Drywall & Compound	No	M	Category II	ND/ND	Side Entry Wall	NA
SM-HM-14A	Fiberboard Paneling	No	M	Category II	ND	Living Wall	325 sq. ft.
SM-HM-14B	Fiberboard Paneling	No	M	Category II	ND/ND	Living Wall	NA

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 616 S Mifflin Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
SM-HM-15A	Glazing	Yes	M	Category II	ND	Kitchen	6 Windows
SM-HM-15B	Glazing	Yes	M	Category II	ND	SW Bedroom	NA
SM-HM-16A	Sink Undercoat	No	M	Category II	15% CH	Kitchen	1 Sink
SM-HM-16B	Sink Undercoat	No	M	Category II	NA	Kitchen	NA
SM-HM-17A	Red Brick/Mastic	No	M	Category II	ND/ND	Kitchen	250 sq. ft.
SM-HM-17B	Red Brick/Mastic	No	M	Category II	ND/ND	Kitchen	NA
SM-HM-18A	Metal Window Glazing	No	M	Category II	ND	Bathroom	2 Windows
SM-HM-18B	Metal Window Glazing	No	M	Category II	ND	Living	NA
SM-HM-19A	Patch Glazing	Yes	M	Category II	ND	Kitchen	6 Windows
SM-HM-19B	Patch Glazing	Yes	M	Category II	ND	SW Bedroom	NA
SM-HS-01A	Plaster	No	S	Category II	ND	Exterior	1,250 sq. ft.
SM-HS-01B	Plaster	No	S	Category II	ND	Exterior	NA
SM-HS-01C	Plaster	No	S	Category II	ND	Exterior	NA
SM-HS-01D	Plaster	No	S	Category II	ND	Exterior	NA
SM-HS-01E	Plaster	No	S	Category II	ND	Exterior	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, 616 S Mifflin Ave., Lansing, Michigan

Asbestos Containing Material Description and Location					
Location	Material Description	Friable	Condition	Material Type	Approx. Quantity
No Presumed Asbestos Containing Materials Identified					

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, 616 S Mifflin Ave., Lansing, Michigan

Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Side Entry and Living Room	Tan 12x12 VFT (under raised floor system)	No	235 sq. ft.
	Total		235 sq. ft.
Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Building Interior, All Rooms 1 st Fl. and 2 nd FL. (except Bath walls and ceiling)	Drywall Compound (many rooms have paneling over the Drywall)	No	3,425 sq. ft.
	Total		3,425 sq. ft.
Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Kitchen	Sink Undercoat	No	1 Sink
	Total		1 Sink

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.