

CITY OF MUSKEGON

CITY COMMISSION WORKSESSION

December 9, 2024 @ 5:30 PM
MUSKEGON CITY COMMISSION CHAMBERS
933 TERRACE STREET, MUSKEGON, MI 49440

☐ **CALL TO ORDER:**

☐ **NEW BUSINESS:**

A. Muskegon Social Equity Program - Economic Development Grants
Planning

B. Beach Parking Fees Summer 2025 - Update Manager's Office

C. 880 First St. Demolition- Asbestos Abatement Proposal Economic
Development

☐ **PUBLIC COMMENT:**

☐ **ADJOURNMENT:**

AMERICAN DISABILITY ACT POLICY FOR ACCESS TO OPEN MEETINGS OF THE CITY OF MUSKEGON AND ANY OF ITS COMMITTEES OR SUBCOMMITTEES

To give comment on a live-streamed meeting the city will provide a call-in telephone number to the public to be able to call and give comment. For a public meeting that is not live-streamed, and which a citizen would like to watch and give comment, they must contact the City Clerk's Office with at least a two-business day notice. The participant will then receive a zoom link which will allow them to watch live and give comment. Contact information is below. For more details, please visit:

www.shorelinecity.com

The City of Muskegon will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and audio tapes of printed materials being considered at the meeting, to individuals with disabilities who want to attend the meeting with twenty-four (24) hours' notice to the City of Muskegon. Individuals with disabilities requiring auxiliary aids or services should contact the City of Muskegon by writing or by calling the following:

Ann Marie Meisch, MMC. City Clerk. 933 Terrace St. Muskegon, MI 49440. (231)724-6705.
clerk@shorelinecity.com

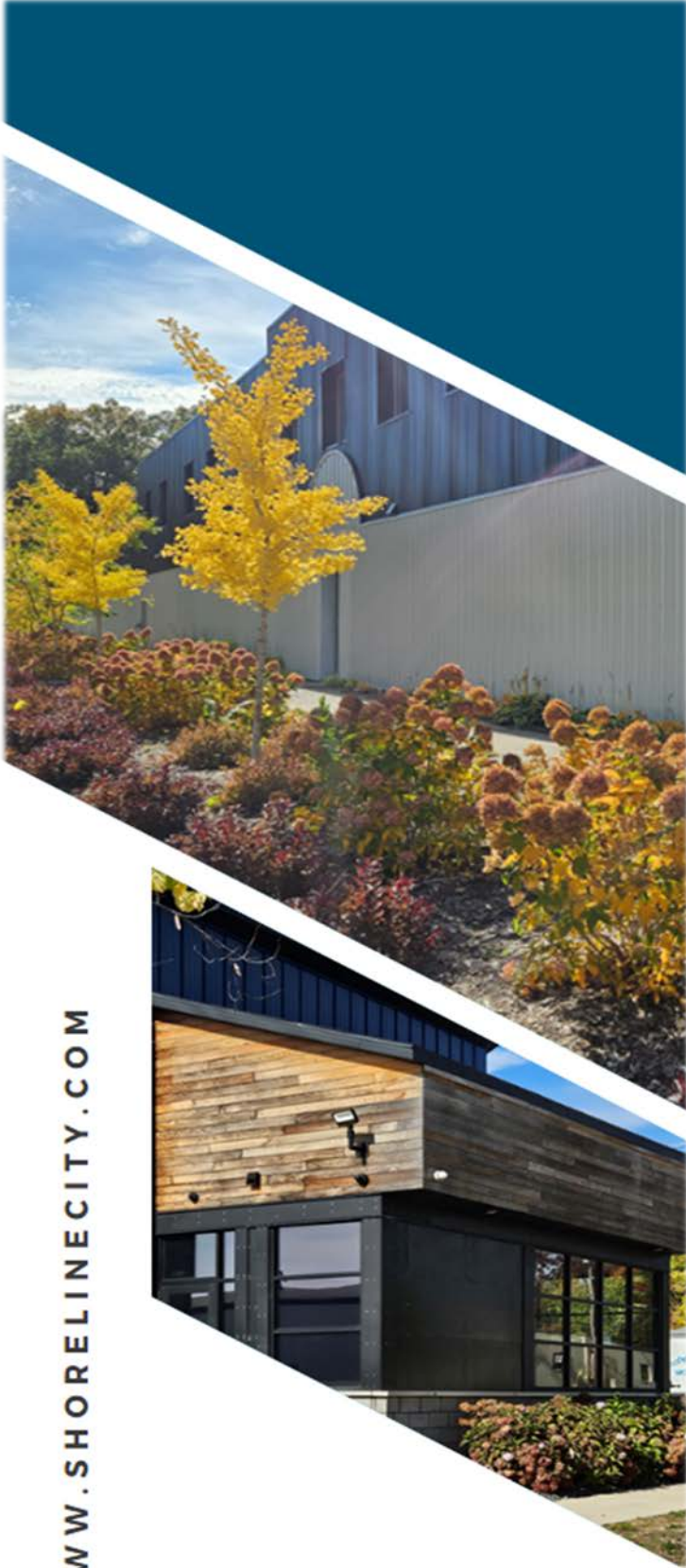


Agenda Item Review Form

Muskegon City Commission

Commission Meeting Date: December 9, 2024		Title: Muskegon Social Equity Program - Economic Development Grants								
Submitted by: Mike Franzak, Planning Director		Department: Planning								
Brief Summary: The Planning Department has created a draft Facade Improvement Grant that would utilize funds from the Muskegon Social Equity Program (MSEP).										
Detailed Summary & Background: The enclosed MSEP application has been updated to show the proposed Facade Improvement Grant, which can be found at the end of the document. Any commercial, industrial or non-profit business located within one mile of a marijuana retailer would be eligible for up to \$10,000 in grant funding, with no matching funds required. This grant is intended to beautify our commercial corridors by funding building facade improvements, signage upgrades, parking lot improvements, landscaping, fencing/screening, etc. In June of this year, the Commission approved the plan to allocate 35% (\$56,870) of the MSEP funds towards business grants, with a proposed program to be presented at a later date.										
Goal/Focus Area/Action Item Addressed: Key Focus Areas: Goal/Action Item: 2027 Goal 2: Economic Development Housing and Business										
Amount Requested: N/A		Budgeted Item: <table border="1"> <tr> <td>Yes</td> <td>X</td> <td>No</td> <td></td> <td>N/A</td> <td></td> <td></td> </tr> </table>		Yes	X	No		N/A		
Yes	X	No		N/A						
Fund(s) or Account(s): Muskegon Social Equity Program		Budget Amendment Needed: <table border="1"> <tr> <td>Yes</td> <td></td> <td>No</td> <td>X</td> <td>N/A</td> <td></td> <td></td> </tr> </table>		Yes		No	X	N/A		
Yes		No	X	N/A						
Recommended Motion:										
Approvals: <table border="1"> <tr> <td>Immediate Division Head</td> <td>X</td> <td></td> </tr> <tr> <td>Information</td> <td></td> <td></td> </tr> </table>		Immediate Division Head	X		Information			Guest(s) Invited / Presenting: No		
Immediate Division Head	X									
Information										

Technology			
Other Division Heads			
Communication			
Legal Review			



WWW.SHORELINECITY.COM



MUSKEGON SOCIAL EQUITY PROGRAM

EFFECTIVE: October 2024



The City of Muskegon is dedicated to giving back to the community. We are offering grant and loan opportunities to those who have been affected by marihuana-related criminal charges in the past and need help funding education, training, business expenses, marihuana facility equipment, and marihuana facility licenses. We are also offering a façade grant program to commercial properties within one (1) mile of a marihuana related business, to upgrade the look and function, by encouraging tenant businesses or building owners to make exterior improvements. These improvements will enhance the individual property's value; and uplift the block in which the property is located.

Please complete the information below, select one of the following programs on pages 2-6, and complete the information for that program. Completed application should be turned in to the Planning Department at City Hall, 933 Terrace Street, Room 202, Muskegon, Michigan 49440, or email the application to:

planning@shorelinecity.com

Please include the following documents with your application

- For proof of residency:
 - Driver's License or State ID
- For proof of conviction (one of the following):
 - Judgement of Sentence
 - Order on Application to Set Aside Conviction, if expunged
 - Other conviction documents (documents must include name and marihuana conviction)
- For the Marihuana License Grant, please provide proof of Michigan Social Equity Program approval
- For the Façade Grant please provide the following:
 - Photos
 - Project Plans
 - Two Competitive Bids

Additional Information:

- Applicant is not eligible if they have any non-marihuana related felonies within the past 5 years
- Expenses may not be incurred before the application is approved

CONTACT INFORMATION		
Applicant Name:		
Address:		
Phone Number:		Email:
Signature:		Date:



City of Muskegon Social Equity Program

Education/Training Scholarship

Eligibility: Applicants must have been a resident of the City of Muskegon at least 12 months out the past 48 months and have had a previous low-level marihuana conviction (or had a parent have a previous low-level marihuana conviction while in school) to be eligible.

Applicants may receive up to \$5,000 in educational scholarships for any type of career/industry. The educational costs (i.e., tuition, job skills training) will be paid with grant funds upon completion of the courses/training. Applicants attending a college or university must have filed a Free Application Federal Student Aid and received eligible federal aid, this scholarship is intended to cover a portion of the balance. The applicant must pass the course to be eligible for reimbursement.

Describe your previous low-level marihuana conviction (including date of conviction):

Name of College/University/Training Program:

Course/Training Title	Credit Hours	Cost of Tuition	Begin Date	End Date
Total Cost:				
Amount of Federal Aid:				
Total Cost after Federal Aid Applied:				

City of Muskegon Social Equity Program

Marihuana Industry Training Scholarship

- Eligibility:** Applicants must meet at least one of the following criteria:
- You are a current resident of the City and have been a resident for at least five cumulative years.
 - You are a current resident of the City and have had a misdemeanor conviction of a marihuana-related offense (or had a parent have a previous low-level marihuana conviction while in school).
 - You are a current resident of the City and you were registered as a caregiver under the MMMA for at least two years.

Applicants may receive up to \$5,000 in training toward a career in the marihuana industry. Institutions providing courses will be vetted by City staff. Scholarships will either work as a reimbursement payment to the applicant or will be paid directly to the institution to cover the cost of the training upfront.

If necessary, describe your previous low-level marihuana conviction (including date of conviction):

Name and Cost of Training Program:



City of Muskegon Social Equity Program

Business Start-Up Grant

Eligibility: Applicants must have had a previous low-level marihuana conviction (or had a parent have a previous low-level marihuana conviction while in school) to be eligible.

Applicants may receive up to \$5,000 in assistance towards hard costs (i.e., equipment, etc.), soft costs (i.e., business plan development, architecture fees, engineered drawings, formative business documents, business training courses, etc.) or rental assistance associated with opening a business in the City. The grant will be paid by reimbursement after the applicant provides receipt of payment for the related costs.

Describe your previous low-level marihuana conviction (including date of conviction):

Describe you proposed business (including proposed location):

Describe the soft costs associated with opening your proposed business for which you seek to be reimbursed:

Item:	Cost:
Total Cost:	



City of Muskegon Social Equity Program

Business Start-Up Loan

Eligibility: Applicants must have been a resident of the City of Muskegon at least 12 months out of the past 48 months and have had a previous low-level marihuana conviction (or had a parent have a previous low-level marihuana conviction while in school) to be eligible.

Applicants may receive interest-free gap loans up to \$25,000 to supplement traditional financing with a third party. All loans must be paid back within 60 months.

Describe your previous low-level marihuana conviction (including date of conviction):

--

Describe you proposed business (including proposed location):

--

Amount of Loan Requested (not to exceed \$25,000):

--

Duration of Load Requested (not to exceed 60 months):

--

Describe the need for funding and how the loan will be used:

--

This loan must be used in conjunction with traditional financing. Describe what other methods of financing are being used to fund the project.

--



City of Muskegon Social Equity Program

Marihuana License Grant

Eligibility: Applicants must have been a resident of the City of Muskegon for at least 12 months out of the past 48 months and designated as a social equity applicant by the State of Michigan*.

Applicants may receive up to \$10,000 in assistance for the fees associated with obtaining a local or state marihuana license. For local application fees, a credit will be given to the applicant, waiving the \$5,000 application fee (fee waived for the first year only). For State license fees, the grant will be paid by reimbursement after the applicant provides receipt of payment for the State application fee.

*To be designated as a social equity applicant by the State of Michigan (application found at www.michigan.gov), an individual must meet one of the following criteria:

- Residency – Residency in a disproportionately impacted community for at least 5 cumulative years.
- Marihuana Conviction – Conviction of a marihuana-related offense.
- Caregiver Status – Registration as a primary caregiver under the Michigan Medical Marihuana Act.

Describe your previous low-level marihuana conviction (including date of conviction):

Describe you proposed business (including proposed location):

Grant Amount Requested (not to exceed \$10,000):

Describe the need for funding and how the loan will be used:

City of Muskegon Social Equity Program

2024-2025 Building Façade Improvement Grant Guidelines

Goal:

To upgrade the look and function of commercial buildings within one mile of any City of Muskegon licensed marihuana business by encouraging tenant businesses or building owners to make exterior improvements. These improvements will enhance the individual property's value; reduce blight, and beautify our commercial corridors.

Available Funding:

Funding is provided by the Muskegon Social Equity Program (MSEP). The MSEP is funded through revenues received from the Marihuana Retailers Excise Tax. Please note that funds are available on a rolling basis and are not guaranteed. This program is first-come-first-serve and once funds are depleted grant applications will no longer be accepted.

Terms:

The Building Façade Improvement Grants are for up to \$10,000. This is a reimbursement-oriented program to ensure that the proposed work is done appropriately and consistent with the character of the neighboring area. Funds are available on a first-come-first-serve basis and must receive approval from the Planning Department before any money is spent. Two competitive bids are required at the time of application.

Eligibility:

- Located within one mile of a City of Muskegon Marihuana Retailer
- The property must be either a commercial, industrial business or non-profit
- The property must be current on all taxes
- All required permits must be obtained (if necessary)
- All City regulations and ordinances must be followed
- A timeframe of all proposed work must be included at the time of application



City of Muskegon Social Equity Program

2024-2025 Building Façade Improvement Grant Application

Applicant Name:

Business Address:

Email:

Project Address:

Phone:

Parcel Number:

Requested Amount:

Total Façade Project Cost:

Statement of Intent/Need for Funding:

Description of Project (Attach: Photos, Project Plans, & Two Competitive Bids):

Project Timeline/Estimated Completion Date:

By signing the grant application, if awarded, the applicant commits to future property maintenance and certifies the ability to fund the project to completion before grant fund reimbursements are made.

Applicant Signature & Date:



Approved 2024-25		
2023 Excise Tax Collected - \$649,949		
25% to MSEP - \$162,487 (Staff proposed 30%, Commission approved 25%)		
MSEP Program	Allocate	Total Funding
Fair Housing/Public Infrastructure Improvements	\$56,870 (35%)	\$56,870
Business Grants*	\$56,870 (35%)	\$56,870
Education/Harm Reduction	\$25,998 (16%)	\$34,978
Expungement Clinics	\$27,623 (17%)	\$40,763
Grants/Loans	\$0 (0%)	\$89,627



Agenda Item Review Form

Muskegon City Commission

Commission Meeting Date: December 9, 2024	Title: Beach Parking Fees Summer 2025 - Update							
Submitted by: Jonathan Seyferth, City Manager	Department: Manager's Office							
Brief Summary: Staff is requesting a change to the recently approved beach parking fees.								
Detailed Summary & Background: In an effort to address concerns with the newly adopted beach parking fees, staff is recommending the following changes. Reduce the weekend daily rate from \$20 per day to \$15 per day. Offer a special sale price for the month of December 2024 for seasonal passes. Each person purchasing a 2025 season pass at a city office will receive 1 free 2025 season pass. Members of the public are welcome to purchase as many season passes as they wish, but only one free pass will be provided.								
Goal/Focus Area/Action Item Addressed: Key Focus Areas: Enhanced Parks and Recreation Department and Services Goal/Action Item: 2027 Goal 1: Destination Community & Quality of Life								
Amount Requested: N/A	Budgeted Item: <table border="1"><tr><td>Yes</td><td>X</td><td>No</td><td></td><td>N/A</td><td></td><td></td></tr></table>	Yes	X	No		N/A		
Yes	X	No		N/A				
Fund(s) or Account(s): N/A	Budget Amendment Needed: <table border="1"><tr><td>Yes</td><td></td><td>No</td><td>X</td><td>N/A</td><td></td><td></td></tr></table>	Yes		No	X	N/A		
Yes		No	X	N/A				
Recommended Motion: To approve the modifications to the 2025 beach parking rates as recommended.								
Approvals: <table border="1"><tr><td>Immediate Division Head</td><td>X</td><td></td></tr></table>	Immediate Division Head	X		Guest(s) Invited / Presenting: No				
Immediate Division Head	X							

Information Technology			
Other Division Heads			
Communication			
Legal Review			



Agenda Item Review Form

Muskegon City Commission

Commission Meeting Date: December 9, 2024	Title: 880 First St. Demolition- Asbestos Abatement Proposal							
Submitted by: Jonathan Seyferth, City Manager	Department: Economic Development							
Brief Summary: City staff requests approval of Asbestos Abatement Inc.'s proposal for asbestos abatement to proceed with the approved demolition of the 880 First St. structure.								
Detailed Summary & Background: The City of Muskegon solicited bids from qualified contractors for the demolition of the building located at 880 First St., Muskegon, MI 49440. The scope of work includes complete demolition and removal of the structure, including all foundations and footings, backfilling the site, hydroseeding, and asbestos abatement. The primary objective is to eliminate blight, improve the area's aesthetic appeal, and encourage economic development by preparing the site for future opportunities. Asbestos Abatement Inc. was awarded the bid by the City Commission on October 8, 2024. They have completed an asbestos survey, and the report is attached for your review. To proceed with demolition, asbestos abatement must be completed. Asbestos Abatement Inc. has submitted their abatement proposal, which is also attached for your review.								
Scope of Work • Removal and disposal of asbestos-containing materials as identified in the NESHAP survey dated 11/25/24. • Required personal air monitoring and clearances included. • Continuous third-party air monitoring is not included. • State notifications and permits included.								
Total Cost: \$94,125								
Goal/Focus Area/Action Item Addressed: <u>Key Focus Areas:</u> <u>Goal/Action Item:</u> 2027 Goal 2: Economic Development Housing and Business								
Amount Requested: \$94,125	Budgeted Item: <table border="1"><tr><td>Yes</td><td>☒</td><td>No</td><td>☐</td><td>N/A</td><td>☐</td><td>☐</td></tr></table>	Yes	☒	No	☐	N/A	☐	☐
Yes	☒	No	☐	N/A	☐	☐		

Fund(s) or Account(s): Public Improvement Fund (445)		Budget Amendment Needed: <table border="1"> <tr> <td>Yes</td> <td></td> <td>No</td> <td></td> <td>N/A</td> <td></td> </tr> </table>				Yes		No		N/A										
Yes		No		N/A																
Recommended Motion:																				
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Immediate Division Head																				
Information Technology																				
Other Division Heads																				
Communication																				
Legal Review																				



December 6, 2024

Contessa Alexander
Development Analyst
City of Muskegon
933 Terrace St.
Muskegon, MI 49440

RE: 880 First Street Abatement Proposal

Asbestos Abatement Inc. (AAI) is pleased to provide you with the following proposal for your consideration. The scope of work is limited to the work described below only and not for any other substance or condition. The price included applicable taxes.

Scope by AAI:

Removal and disposal of asbestos containing materials in NESHAP survey dated 11/25/24
Required personal air monitoring and clearances included. Continuous third-party air monitoring not included.
State notification and permits included

Price = \$94,125

Notes/Disclaimers: work hours are M-F during normal business hours.

The quoted rates are valid for 30 days from the date listed at the top of this agreement.

If you have any questions, feel free to call me. Thank you.

Respectfully,

A handwritten signature in black ink that reads "Mike Busterna".

Mike Busterna
Project Manager/Estimator



MAKING WAY FOR PROGRESS

November 25, 2024

City of Muskegon
Attn: Contessa Alexander
933 Terraxe Street
Muskegon, MI 49440

**Re: Asbestos NESHAP Inspection Report for the Vacant Building at 880 First Street
Muskegon, MI 49440.**

Dear Contessa Alexander:

Asbestos Abatement Incorporated (AAI) was retained by City of Muskegon to provide an asbestos inspection at a vacant building located at 880 First Street. During the inspection, AAI personnel inspected all accessible areas that are to be impacted by the project to determine the presence or absence of suspect Asbestos Containing Building Materials (ACBM's). This report includes the procedures and methodologies, analytical laboratory results and any applicable conclusions and recommendations made during the course of this inspection. Contractors, architects, engineers, the building owner and all their employees working on this project need to review and understand this survey. If any contractors, architects, engineers or employees of the owner find materials not sampled as part of this survey they should assume the material to contain asbestos then immediately stop work and notify AAI so that additional testing and/or necessary clean-up can be performed. Although every effort was made to sample all suspect ACBM's during the inspection hidden, concealed or missed materials may exist within the project scope.

AAI appreciates the opportunity to perform these services for you and look forward to working with you in the future. In the meantime, if you have questions or comments regarding the information in this report or if we can be of further assistance please do not hesitate to contact AAI at 517-323-0052.

Sincerely,
Asbestos Abatement Inc.



Andrew Rauser
Asbestos Inspector
Accreditation A40568



ASBESTOS NESHAP INSPECTION REPORT

Conducted at:

880 First Street

AAI Project Number: 2260

Date of Inspection:

November 12, 2024

Report prepared for:

City of Muskegon
Contessa Alexander
933 Terraxe Street
Muskegon, MI 49440

Inspection conducted by:

Andrew Rauser, Accreditation A40568
Asbestos Abatement Inc.
2420 N. Grand River Ave.
Lansing, Michigan 48906
Phone: 517-323-0052
Fax: 517-323-7382

ASBESTOS NESHAP INSPECTION REPORT

880 First Street

AAI Project Number: 2260

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5.0	Pertinent Observations	3
6.0	Regulatory Guidance.....	3
7.0	Recommendations	4

8.0 APPENDICES

APPENDIX A – INSPECTOR(S) CREDENTIALS

APPENDIX B – LABORATORY CERTIFICATION

APPENDIX C – INSPECTION DATA

APPENDIX D – ANALYTICAL DATA

APPENDIX E – DEFINITIONS & CLASSIFICATIONS

1.0 Introduction

AAI was retained by City of Muskegon to provide a National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos inspection at the vacant building located at 880 First Street. During the inspection, AAI personnel inspected all accessible areas that are to be impacted by the project to determine the presence or absence of suspect Asbestos Containing Building Materials (ACBMs). A comprehensive asbestos NESHAP inspection was performed, including the collection of an appropriate number of bulk asbestos samples in accordance with the provisions of the Asbestos in Construction Standard.

The on-site portion of asbestos building inspection took place on November 12, 2024. During the inspection, bulk samples were collected, and quantities of suspect asbestos-containing materials were estimated.

2.0 Certification

The asbestos inspection was conducted by Andrew Rauser, a State of Michigan Accredited Asbestos Inspector. A copy of his inspector credentials appears in Appendix A.

All collected asbestos bulk samples were submitted to APEX Research, Inc. for analysis. Bulk samples of suspect asbestos-containing materials were analyzed by polarized-light microscopy (PLM) using the EPA Method 600/R-93/116. APEX Research, Inc. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

A copy of their NVLAP Accreditation can be found in Appendix B.

3.0 Inspection Procedures

This asbestos NESHAP inspection was conducted in accordance with the requirements of the Michigan Occupational Safety and Health Administration (MIOSHA), Asbestos Standards for Construction, Part 602 and the Asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61, Subpart M, and current industry standards.

A thorough visual inspection of all functional spaces in conjunction with destructive testing was conducted to identify suspect asbestos-containing materials (ACM) which may be disturbed as part of this project. As unrestricted access was provided, all rooms within the scope were inspected. Each area was visually inspected for the presence of building materials that are suspected to contain asbestos. Bulk samples were obtained of materials suspect to contain asbestos and are categorized as using NESHAP definitions.

Materials visibly identified as non-asbestos (metal, glass, wood, etc.) by the accredited inspector were not sampled.

Prior to collecting any samples, homogenous areas (HAs) were identified and listed to develop a sampling strategy. Suspect ACM's were identified and documented by homogenous area. A homogenous area (HA), is defined as an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color and texture (e.g., drywall joint compound).

The actual number of samples collected from each homogeneous sampling area may vary, based on the type of material and the professional judgment of the inspector. A minimum of one sample of each HA was collected and submitted to an accredited laboratory for analysis by PLM. The number of samples collected for each material identified was determined according to the following table:

Guidelines for Determining the Number of Samples Collected		
HA Category	HA Size	Samples Required
Miscellaneous Materials	No Stipulation	2
Thermal Systems Insulation	No Stipulation	3
Surfacing Material	< 1,000 SQ. FT	3
	1,000 – 5,000 SQ. FT	5
	> 5,000 SQ. FT	7

A total of 51 separate suspect asbestos-containing materials were identified during this inspection.

Contractors, architects, engineers, the building owner and all of their employees working on this project need to review and understand this survey. If any contractors, architects, engineers or employees of the owner find materials not sampled as part of this survey they should assume the material to contain asbestos then immediately stop work and notify AAI so that additional testing and/or necessary clean-up can be performed. Although every effort was made to sample all suspect ACBM's during the inspection hidden, concealed or missed materials may exist within the project scope.

A complete list of all suspect asbestos-containing materials identified, including friability, location, and estimated quantities can be found in Appendix C.

4.0 Analytical Results

Bulk samples were submitted to APEX Research, Inc. for analysis using polarized-light microscopy (PLM) and dispersion staining (EPA Method 600/R-93/116). APEX Research, Inc. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

A material is considered to be ACM when it contains greater than 1% asbestos and must be handled according to Federal, State and local regulations. For homogenous areas with multiple samples collected, only one sample with greater than 1% asbestos is required for the entire homogenous area to be considered ACM.

For friable materials, when the amount of asbestos in the sample material is reported as “None-Detected” by PLM analysis, no further verification of the sample results by Point Counting Methodology is recommended.

For friable materials, when the amount of asbestos in the sample material is reported at less than 10% by PLM analysis, the client may either assume the amount to be greater than 1% and treat the material as ACM or require further verification of the amount by Point Counting Methods. If the result obtained by Point Counting is different from the result obtained by PLM analysis, the Point Count Method result should be used.

For non-friable materials, when the amount of asbestos in the sample material is reported at greater than 1% by PLM analysis, no further verification of the sample results by alternative methods of identification.

The analytical data, including detailed information on individual sample layers, can be found in Appendix D.

5.0 Pertinent Observations

During the visual inspection, select observations were made and documented. With the inspection procedures and analytical results taken into consideration, the pertinent observations are as follows:

- All quantities listed in the Building Inventory Data form (Appendix C) are estimates and its accuracy is not guaranteed.
- Extensive interior and exterior demolition had occurred prior to this survey.
- Renovations have been done in these areas in the past creating multiple layers of finishes through-out the spaces.

6.0 Regulatory Guidance

This section offers regulatory guidance for ACM identified during this building inspection and was prepared for regulatory guidance only and does not guarantee compliance with all regulatory requirements.

Of the 51 identified homogenous, the following were determined to be asbestos-containing materials by polarized light microscopy:

- * **Tar and Flashing (On/Around Old Rooftop Mechanical Room)**
- * **Tar Remnants (On Exterior Walls of Old Rooftop Mechanical Room)**
- * **Tar and Flashing (Old Rooftop Exterior Perimeter)**
- * **Black Mastic Glue-Pods (On Plaster Walls and Behind Wallboard Around Elevators – All Floors)**
- * **Tar and Flashing (2nd Floor South Exterior Wall Near Stairwell)**
- * **Tar and Flashing (Addition Roof Meets 2nd Floor)**

- * **Tile Mastic – Black (Ground Floor of Old Building)**
- * **Black Mastic Glue-Pods (Steel Columns of Newer Building)**
- * **Tar and Flashing – North Side Exterior Wall of Old Building Above 1st Floor)**
- * **Transite Debris (Old Building Rooftop)**
- * **Building Sealant/Caulk – Gray and Black Layers (2nd Floor/New Building Roof Below Rubber Roofing)**
- * **Multiple Layer Caulking (2nd Floor/New Building Roof)**
- * **Transite (Ground Floor Perimeter Wall Bases)**
- * **Building Caulk – White (Basement of Addition in Ceiling Joints)**
- * **Wallboard System Joint Compound (Stairwell)**

This report shall not be used as a compliance tool. It is the responsibility of the contractor(s) selected to perform the work to comply with all applicable laws and regulations.

This guidance is based on the visual inspection, analytical results, pertinent observations and AAI's understanding of the project. This guidance may require modification should there be a change in building ownership, use and/or change in the project scope.

A 10-day notification with the State of Michigan may or may not be required for the asbestos removal on this project; please consult with AAI for a project by project determination on this requirement.

7.0 Recommendations

The results of laboratory testing during the asbestos inspection conducted at 880 First Street, indicates that 15 of the 51 building materials sampled were found to contain asbestos.

Contractors, architects, engineers, the building owner and all of their employees working on this project need to review and understand this survey. If any contractors, architects, engineers or employees of the owner find materials not sampled as part of this survey they should assume the material to contain asbestos then immediately stop work and notify AAI so that additional testing and/or necessary clean-up can be performed. Although every effort was made to sample all suspect ACM's during the inspection hidden, concealed or missed materials may exist within the project scope.

Based on the visual inspection, analytical results, pertinent observations and AAI's understanding of the planned project, the following recommendations are offered:

- * Retain AAI to professionally abate all ACM building materials prior to demolition.
- * If, during the course of renovation, materials not identified in this report are observed, stop demolition and contact AAI for additional sampling.

APPENDIX A
INSPECTOR(S) CREDENTIALS

Name and Address

Name RAUSER, ANDREW J.
Address C/O ASBESTOS ABATEMENT INC. 2420 N GRAND RIVER AVENUE
LANSING, MI 48906

License Information

Accreditation Type	ID #	Status	Expiration Date	Training Expiration Date
Contractor/Supervisor	A40568	Apprvd - Full	6/28/2025	1/5/2025
Inspector	A40568	Apprvd - Full	6/17/2025	12/11/2024

APPENDIX B

LABORATORY CERTIFICATION

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 102118-0

Apex Research, Inc.
Brighton, MI

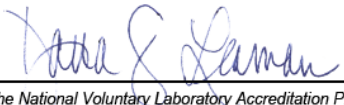
*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2023-10-01 through 2024-09-30
Effective Dates




For the National Voluntary Laboratory Accreditation Program

APPENDIX C
INSPECTION DATA

Asbestos Inspection Data-Bulk Sample Log
880 First Street

<u>HA #</u>	<u>HA Description</u>	<u>Sample Location</u>	<u>Friable</u>	<u>ACM</u>	<u>Quantity Total</u>
1	Tar and Flashing	Rooftop of Older Building at base and on top of Elevator/Mechanical Room	No	Yes	160 SF
2	Flat Roof	Older Building Flat Roof	No	No	
3	Orange/Red Brick and Mortar	Rooftop Elevator/Mechanical Room	No	No	
4	Ceramic Block and Mortar	Rooftop Elevator/Mechanical Room	No	No	
5	Tar	Remnants around Rooftop Elevator/Mechanical Room Exterior	No	Yes	5 SF
6	Transite Debris	Loose Remnants near center area of Old Building Rooftop	No	Yes	1 SF
7	Tar and Flashing	Old Building Rooftop at Perimeter Walls	No	Yes	280 SF
8	Tar and Flashing	Old Building Rooftop Steel Column Penetrations	No	No	
9	Stucco Debris	Old Building Rooftop, Addition Rooftop and Ground Surface	No	No	
10	Ceiling Panels, 2'x4', White, Pinhole/Fissure	Stairwell ceilings and debris	Yes	No	
11	Plaster	Near Elevators on Each Floor	Yes	No	
12	Mastic, Black (Glue Pods)	On Plaster Walls behind Wallboard System	No	Yes	100 SF
13	Mastic, Black	Floors 2-5 on Terrazzo	No	No	
14	Terrazzo, Tan	Floors 2-5	No	No	
15	Pipe Fitting Insulation	5 th Floor Roof Drains	Yes	No	
16	CMU Block and Mortar	North Stair Well and Elevator Shafts	No	No	

Asbestos Inspection Data-Bulk Sample Log
880 First Street

<u>HA #</u>	<u>HA Description</u>	<u>Sample Location</u>	<u>Friable</u>	<u>ACM</u>	<u>Quantity Total</u>
17	Terrazzo, Green	Floors 2-5	No	No	
18	Spray Applied Fireproofing, Light Grey	Steel Decking of Old Building	Yes	No	
19	CMU Block and Mortar	South Stairwell	No	No	
20	Ceramic Tile/Grout/Mortar, 2"x1" Brown	Floors 2-5	No	No	
21	Ceramic Tile/Grout/Mortar, 2" White Hexagonal	Floors 2-5	No	No	
22	Tar/Flashing	Near South Exterior Wall on 2 nd Floor near South Stairwell	No	Yes	20 SF
23	Building Sealant/Caulk – Gray and Black Layers	Addition Roof meets Old Building at 2 nd floor below Rubber Roofing	No	Yes	40 LF
24	Multiple Layer Caulking/Sealants	Addition Roof meets Old Building at 2 nd floor	No	Yes	40 LF
25	Window Glazing	Steel Frame Windows in Stairwell	No	No	
26	Tar/Flashing	2 nd Floor at Expansion Joint between buildings	No	Yes	80 LF
27	Building Caulk, Gray	Base of Ground Floor Exterior Wall	No	No	
28	Terrazzo, Black and Tan	Ground Floor	No	No	
29	Transite	Older Building Ground Floor Exterior Wall Footing	No	Yes	4 SF
30	Concrete Floor	5 Story Building Section	No	No	
31	Concrete on Steel Beams/Columns	5 Story Building Section	No	No	
32	Mastic, Black	Ground Floor	No	Yes	2000 SF

Asbestos Inspection Data-Bulk Sample Log
880 First Street

<u>HA #</u>	<u>HA Description</u>	<u>Sample Location</u>	<u>Friable</u>	<u>ACM</u>	<u>Quantity Total</u>
33	Spray Applied Fireproofing, Tan	Ground Floor of Old Building	Yes	No	
34	Mastic, Black	Steel Columns of New Addition at NW Former Entrance	No	Yes	5 SF
35	Tar and Flashing	North Side of Old Building Exterior between 1 st /2 nd floors on Orange Brick	No	Yes	5 SF
36	Spray Applied Fireproofing, Light Gray, Soft	1 st Floor Newer Addition Steel Beams and Columns	Yes	No	
37	Spray Applied Fireproofing, Light Gray, Soft	Basement of Newer Addition Steel Beams and Columns	Yes	No	
38	Flooring Adhesive	Ground Floor Ramp	No	No	
39	Concrete	Newer Addition Ground Floor and Basement	No	No	
40	Concrete Ceiling/Roofing Segments	Newer Addition	No	No	
41	Pipe Fitting Insulation	Newer Addition	Yes	No	
42	Mastic, Black	Ground Floor Vault Floor	No	No	
43	Mastic, Black	Addition Basement Large Room	No	No	
44	Mastic, Black	Addition Basement Smaller Room along East Wall	No	No	
45	Wall Mastic (Glue Pods), Black	NE Corner Room of Addition Basement	No	No	
46	Floor Mastic, Black Dots	NE Corner Room of Addition	No	No	

Asbestos Inspection Data-Bulk Sample Log
880 First Street

<u>HA #</u>	<u>HA Description</u>	<u>Sample Location</u>	<u>Friable</u>	<u>ACM</u>	<u>Quantity Total</u>
47	Building Caulk, White	Basement Ceiling of New Addition between Concrete	No	Yes	2400 LF
48	Mastic, Black	Basement Floor of Older Building	No	No	
49	Wallboard System	Stairwell next to Elevators, Basement to 5 th Floor	No	Yes	3600 SF
50	Cork and Plaster Ceiling	Basement Mechanical Rooms in Older Building	No	No	
51	Stair Tread and Adhesive, Red	Both Stairwells	No	No	



HA #1. Tar and Flashing Layers. On and Around Rooftop Elevator/Mechanical Room.



HA #5. Tar on Exterior of Rooftop Elevator/Mechanical Room.



HA #6. Transite Debris on Older Building Roof.



HA #7. Tar and Flashing around Perimeter of Older Building Roof.



HA #12. Mastic on Plaster Walls (Behind Wallboard Systems)



HA #22. Tar and Flashing at base of 2nd floor South wall near Stairwell.



HA #23. Building Sealant (Gray) and Tar Layer (Black). 2nd Floor/Newer Addition Roof, below rubber roofing membrane.



HA #24. Multiple Layers of Caulking/Sealants. 2nd Floor/Newer Addition Roof.



HA #29. Transite. Ground Floor of Older Building. Pieces stuck in Cement on Former Exterior Wall Foundations.



HA #32. Mastic, Black. Ground Floor Lobby.



HA #34. Mastic on Steel Columns of Newer Addition.



HA #35. Tar and Flashing on North Exterior wall of Older Section between 1st and 2nd Floors.



HA #47. Building Caulk, White. Between Precast Concrete Roof and Ceiling Decking on Newer Section of the Building.

APPENDIX D
ANALYTICAL DATA

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



Report To:

Mr. Cody Adams
Asbestos Abatement, Inc.
2420 N Grand River
Lansing, MI 48906

ARI Report # 24-114247
Date Collected: 11/12/24
Date Received: 11/19/24
Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 01 Cust. #: 1A Material: Tar Location: Roof Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 01a Cust. #: 1A Material: Flashing - Tar/Felt Location: Roof Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 50% Fiberglass - 10% Other - 30%
Lab ID #: 114247 - 02 Cust. #: 1B Material: Tar Location: Roof Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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

Robert T. Letarte Jr., Laboratory Director

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(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



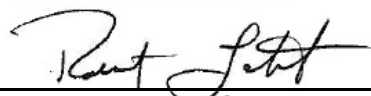
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 02a Cust. #: 1B Material: Flashing - Tar/Felt Location: Roof Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 50% Fiberglass - 10% Other - 30%
Lab ID #: 114247 - 03 Cust. #: 1C Material: Tar Location: Roof Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 03a Cust. #: 1C Material: Flashing - Tar/Felt Location: Roof Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 50% Fiberglass - 10% Other - 30%

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


 Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 04 Cust. #: 2A Material: Flat Roof Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 5% Fiberglass - 30% Other - 65%
Lab ID #: 114247 - 05 Cust. #: 2B Material: Flat Roof Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 30% Other - 60%
Lab ID #: 114247 - 06 Cust. #: 2C Material: Flat Roof Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 30% Other - 60%

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Robert T. Letarte Jr., Laboratory Director

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Project: City of Muskegon 880 1st St.
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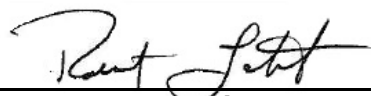
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 07 Cust. #: 3A Material: Brick (Orange/Red) Location: Appearance: red, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 07a Cust. #: 3A Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 2 of 3	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 07b Cust. #: 3A Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 3 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

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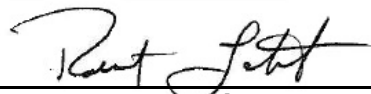
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 08 Cust. #: 3B Material: Brick (Orange/Red) Location: Appearance: red, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 08a Cust. #: 3B Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 2 of 3	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 08b Cust. #: 3B Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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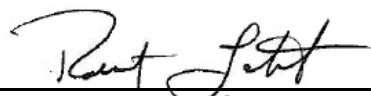
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 09 Cust. #: 3C Material: Brick (Orange/Red) Location: Appearance: red, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 09a Cust. #: 3C Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 2 of 3	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 09b Cust. #: 3C Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 3 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

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Project #: 2260



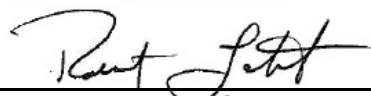
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 10 Cust. #: 4A Material: Ceramic Block Location: Appearance: red, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 10a Cust. #: 4A Material: Mortar Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 11 Cust. #: 4B Material: Ceramic Block Location: Appearance: red, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Project #: 2260



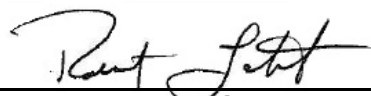
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 11a Cust. #: 4B Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 12 Cust. #: 4C Material: Ceramic Block Location: Appearance: red, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 12a Cust. #: 4C Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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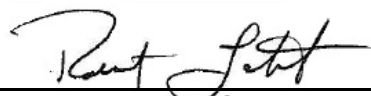
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 13 Cust. #: 5A Material: Tar Remnants Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 14 Cust. #: 5B Material: Tar Remnants Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 15 Cust. #: 5C Material: Tar Remnants Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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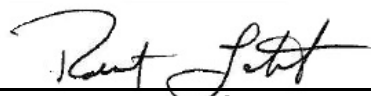
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 16 Cust. #: 6A Material: Transite Debris Location: Roof Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 17 Cust. #: 6B Material: Transite Debris Location: Roof Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 18 Cust. #: 6C Material: Transite Debris Location: Roof Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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


Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



Report To:

Mr. Cody Adams
Asbestos Abatement, Inc.
2420 N Grand River
Lansing, MI 48906

ARI Report # 24-114247
Date Collected: 11/12/24
Date Received: 11/19/24
Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 19 Cust. #: 7A Material: Tar Location: Perimeter Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 19a Cust. #: 7A Material: Flashing - Tar/Felt Location: Perimeter Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 15% Fiberglass - 20% Other - 55%
Lab ID #: 114247 - 20 Cust. #: 7B Material: Tar Location: Perimeter Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: City of Muskegon 880 1st St.
Project #: 2260



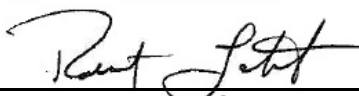
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Asbestos Abatement, Inc.
2420 N Grand River
Lansing, MI 48906

ARI Report # 24-114247
Date Collected: 11/12/24
Date Received: 11/19/24
Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 20a Cust. #: 7B Material: Flashing - Tar/Felt Location: Perimeter Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 10% Fiberglass - 30% Other - 50%
Lab ID #: 114247 - 21 Cust. #: 7C Material: Tar Location: Perimeter Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 21a Cust. #: 7C Material: Flashing - Tar/Felt Location: Perimeter Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Fiberglass - 30% Other - 60%

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



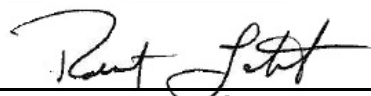
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ARI Report # 24-114247
Date Collected: 11/12/24
Date Received: 11/19/24
Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 22 Cust. #: 8A Material: Tar Location: Steel Beams Appearance: black, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 22a Cust. #: 8A Material: Flashing - Felt Location: Steel Beams Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 114247 - 23 Cust. #: 8B Material: Tar Location: Steel Beams Appearance: black, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

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Project #: 2260



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ARI Report # 24-114247
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 23a Cust. #: 8B Material: Flashing - Felt Location: Steel Beams Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 35% Other - 65%
Lab ID #: 114247 - 24 Cust. #: 8C Material: Tar Location: Steel Beams Appearance: black, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 24a Cust. #: 8C Material: Flashing - Felt Location: Steel Beams Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 35% Other - 65%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 25 Cust. #: 9A Material: Stucco Debris Location: Roof Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 26 Cust. #: 9B Material: Stucco Debris Location: Roof Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 27 Cust. #: 9C Material: Stucco Debris Location: Roof Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Certificate of Laboratory Analysis
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ARI Report # 24-114247
Date Collected: 11/12/24
Date Received: 11/19/24
Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 28 Cust. #: 10A Material: 2x4 Ceiling Panel Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 114247 - 29 Cust. #: 10B Material: 2x4 Ceiling Panel Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 114247 - 30 Cust. #: 10C Material: 2x4 Ceiling Panel Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 31 Cust. #: 11A Material: Plaster Finish Coat Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 31a Cust. #: 11A Material: Plaster Base Coat Location: Appearance: grey, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 32 Cust. #: 11B Material: Plaster Finish Coat Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



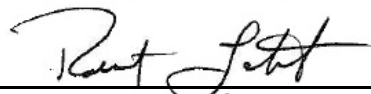
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 32a Cust. #: 11B Material: Plaster Base Coat Location: Appearance: grey, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 33 Cust. #: 11C Material: Plaster Finish Coat Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 33a Cust. #: 11C Material: Plaster Base Coat Location: Appearance: grey, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%

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 Robert T. Letarte Jr., Laboratory Director

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Project: City of Muskegon 880 1st St.
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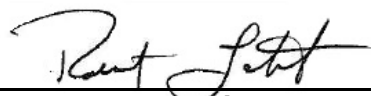
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 34 Cust. #: 11D Material: Plaster Finish Coat Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 34a Cust. #: 11D Material: Plaster Base Coat Location: Appearance: grey, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 114247 - 35 Cust. #: 11E Material: 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

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Test Method, Polarized Light Microscopy (PLM)

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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 35a Cust. #: 11E Material: Plaster Base Coat Location: Appearance: grey, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 114247 - 36 Cust. #: 11F Material: Plaster Finish Coat Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 36a Cust. #: 11F Material: Plaster Base Coat Location: Appearance: grey, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Robert T. Letarte Jr., Laboratory Director

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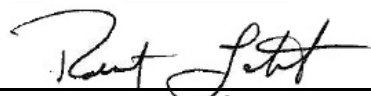
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 37 Cust. #: 11G Material: Plaster Finish Coat Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 37a Cust. #: 11G Material: Plaster Base Coat Location: Appearance: grey, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 38 Cust. #: 12A Material: Mastic on Walls - Black Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 2%	Other - 98%

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


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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 39 Cust. #: 12B Material: Mastic on Walls - Black Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 114247 - 40 Cust. #: 12C Material: Mastic on Walls - Black Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 41 Cust. #: 13A Material: Mastic on Floor - Black Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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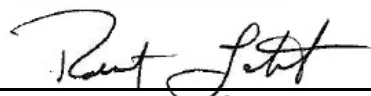
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 42 Cust. #: 13B Material: Mastic on Floor - Black Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 43 Cust. #: 13C Material: Mastic on Floor - Black Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 44 Cust. #: 14A Material: Terrazzo - Tan Location: Appearance: grey, nonfibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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(734) 449-9990, Fax (734) 449-9991

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



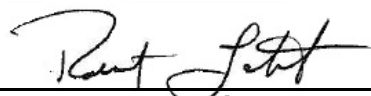
Report To:

Mr. Cody Adams
Asbestos Abatement, Inc.
2420 N Grand River
Lansing, MI 48906

ARI Report # 24-114247
Date Collected: 11/12/24
Date Received: 11/19/24
Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 45 Cust. #: 14B Material: Terrazzo - Tan Location: Appearance: grey, nonfibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 46 Cust. #: 14C Material: Terrazzo - Tan Location: Appearance: grey, nonfibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 47 Cust. #: 15A Material: Pipe Fitting Insulation Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 15% Other - 85%

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. Liability limited to cost of analysis.



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Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 48 Cust. #: 15B Material: Pipe Fitting Insulation Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%
Lab ID #: 114247 - 49 Cust. #: 15C Material: Pipe Fitting Insulation Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%
Lab ID #: 114247 - 50 Cust. #: 16A Material: CMU Block Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 50a Cust. #: 16A Material: Mortar Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 51 Cust. #: 16B Material: CMU Block Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 51a Cust. #: 16B Material: Mortar Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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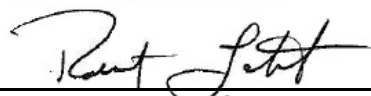
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Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 52 Cust. #: 16C Material: CMU Block Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 52a Cust. #: 16C Material: Mortar Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 53 Cust. #: 17A Material: Terrazzo - Green Location: Appearance: green, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Project #: 2260



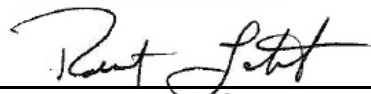
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 53a Cust. #: 17A Material: Mortar Location: Appearance: beige, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 54 Cust. #: 17B Material: Terrazzo - Green Location: Appearance: green, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 54a Cust. #: 17B Material: Mortar Location: Appearance: beige, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Test Method, Polarized Light Microscopy (PLM)

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Project #: 2260



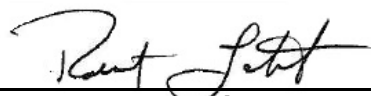
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 55 Cust. #: 17C Material: Terrazzo - Green Location: Appearance: green, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 55a Cust. #: 17C Material: Mortar Location: Appearance: beige, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 56 Cust. #: 18A Material: Spray-On Insulation Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 10% Other - 90%

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


 Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



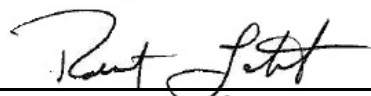
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 57 Cust. #: 18B Material: Spray-On Insulation Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 10% Other - 90%
Lab ID #: 114247 - 58 Cust. #: 18C Material: Spray-On Insulation Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 10% Other - 90%
Lab ID #: 114247 - 59 Cust. #: 19A Material: CMU Block Location: Appearance: grey, 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.


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Project: City of Muskegon 880 1st St.
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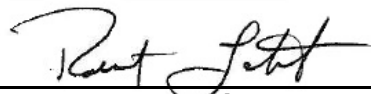
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 59a Cust. #: 19A Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 60 Cust. #: 19B Material: CMU Block Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 60a Cust. #: 19B Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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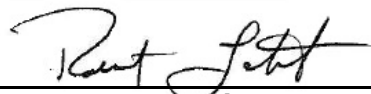
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 61 Cust. #: 19C Material: CMU Block Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 61a Cust. #: 19C Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 62 Cust. #: 20A Material: Ceramic Tile - 2"x4", Brown Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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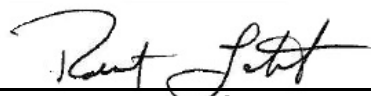
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 62a Cust. #: 20A Material: Grout Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 62b Cust. #: 20A Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 63 Cust. #: 20B Material: Ceramic Tile - 2"x4", Brown Location: Appearance: beige, 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.


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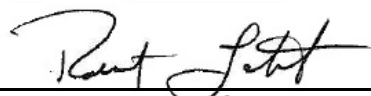
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 63a Cust. #: 20B Material: Grout Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 63b Cust. #: 20B Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 64 Cust. #: 20C Material: Ceramic Tile - 2"x4", Brown Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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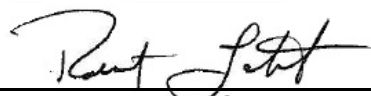
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 64a Cust. #: 20C Material: Grout Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 64b Cust. #: 20C Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 65 Cust. #: 21A Material: Ceramic Tile - 2" Hex Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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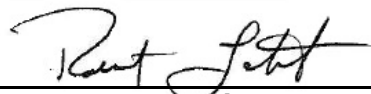
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 65a Cust. #: 21A Material: Grout Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 65b Cust. #: 21A Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 66 Cust. #: 21B Material: Ceramic Tile - 2" Hex Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



Report To:

Mr. Cody Adams
Asbestos Abatement, Inc.
2420 N Grand River
Lansing, MI 48906

ARI Report # 24-114247
Date Collected: 11/12/24
Date Received: 11/19/24
Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 66a Cust. #: 21B Material: Grout Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 66b Cust. #: 21B Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 67 Cust. #: 21C Material: Ceramic Tile - 2" Hex 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. Liability limited to cost of analysis.



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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: City of Muskegon 880 1st St.
Project #: 2260



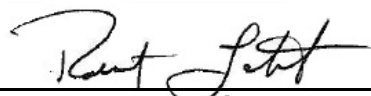
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 67a Cust. #: 21C Material: Grout Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 67b Cust. #: 21C Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 68 Cust. #: 22A Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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


Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 68a Cust. #: 22A Material: Roof Flashing - Tar/Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 40% Fiberglass - 10% Other - 40%
Lab ID #: 114247 - 69 Cust. #: 22B Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 69a Cust. #: 22B Material: Roof Flashing - Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 40% Fiberglass - 10% Other - 40%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 70 Cust. #: 22C Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 70a Cust. #: 22C Material: Roof Flashing - Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 40% Fiberglass - 10% Other - 40%
Lab ID #: 114247 - 71 Cust. #: 23A Material: Caulking/Sealant - Gray Location: Appearance: grey, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 71a Cust. #: 23A Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 72 Cust. #: 23B Material: Caulking/Sealant - Gray Location: Appearance: grey, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 114247 - 72a Cust. #: 23B Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: City of Muskegon 880 1st St.
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 73 Cust. #: 23C Material: Caulking/Sealant - Gray Location: Appearance: grey, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 114247 - 73a Cust. #: 23C Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 74 Cust. #: 24A Material: White Caulk 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

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 74a Cust. #: 24A Material: Beige Caulk Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 3	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 114247 - 74b Cust. #: 24A Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 3 of 3	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 75 Cust. #: 24B Material: White Caulk Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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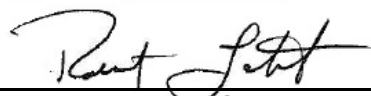
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 75a Cust. #: 24B Material: Beige Caulk Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 5%	Other - 95%
Lab ID #: 114247 - 76 Cust. #: 24C Material: White Caulk Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 76a Cust. #: 24C Material: Beige Caulk Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 5%	Other - 95%

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


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Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



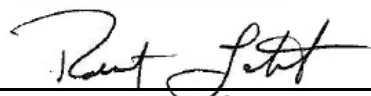
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 77 Cust. #: 25A Material: Window Glazing Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 78 Cust. #: 25B Material: Window Glazing Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 79 Cust. #: 25C Material: Window Glazing 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

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 80 Cust. #: 26A Material: Tar Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 80a Cust. #: 26A Material: Flashing - Tar/Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 15% Fiberglass - 15% Other - 60%
Lab ID #: 114247 - 81 Cust. #: 26B Material: Tar Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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

Robert T. Letarte Jr., Laboratory Director

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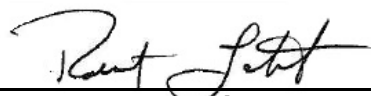
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 81a Cust. #: 26B Material: Flashing - Tar/Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 40% Fiberglass - 10% Other - 40%
Lab ID #: 114247 - 82 Cust. #: 26C Material: Tar Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 82a Cust. #: 26C Material: Flashing - Tar/Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 40% Fiberglass - 10% Other - 40%

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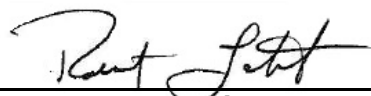
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 83 Cust. #: 27A Material: Exterior Building Caulk Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 84 Cust. #: 27B Material: Exterior Building Caulk Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 85 Cust. #: 27C Material: Exterior Building Caulk Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 86 Cust. #: 28A Material: Terrazzo - Black & Tan Location: Appearance: black, nonfibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 86a Cust. #: 28A Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 87 Cust. #: 28B Material: Terrazzo - Black & Tan Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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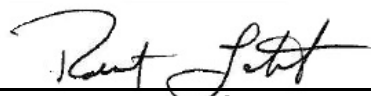
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 87a Cust. #: 28B Material: Mortar Location: Appearance: grey, nonfibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 88 Cust. #: 28C Material: Terrazzo - Black & Tan Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 88a Cust. #: 28C Material: Mortar Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



Report To:

Mr. Cody Adams
Asbestos Abatement, Inc.
2420 N Grand River
Lansing, MI 48906

ARI Report # 24-114247
Date Collected: 11/12/24
Date Received: 11/19/24
Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 89 Cust. #: 29A Material: Transite Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 90 Cust. #: 29B Material: Transite Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 91 Cust. #: 29C Material: Transite Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: City of Muskegon 880 1st St.
Project #: 2260



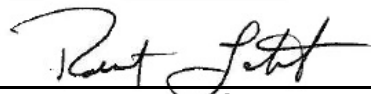
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Lansing, MI 48906

ARI Report # 24-114247
Date Collected: 11/12/24
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Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 92 Cust. #: 30A Material: Concrete - Floors Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 93 Cust. #: 30B Material: Concrete - Floors Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 94 Cust. #: 30C Material: Concrete - Floors Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



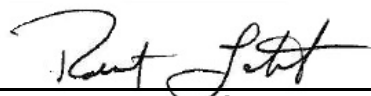
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 95 Cust. #: 31A Material: Concrete on Beams Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 96 Cust. #: 31B Material: Concrete on Beams Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 97 Cust. #: 31C Material: Concrete on Beams Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



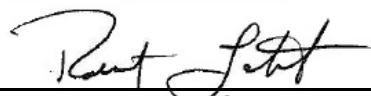
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 98 Cust. #: 32A Material: Mastic Location: 1st Floor Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 5%	Other - 95%
Lab ID #: 114247 - 99 Cust. #: 32B Material: Mastic Location: 1st Floor Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 5%	Other - 95%
Lab ID #: 114247 - 100 Cust. #: 32C Material: Mastic Location: 1st Floor Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 5%	Other - 95%

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Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



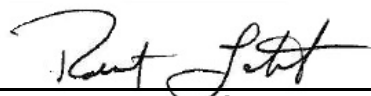
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 101 Cust. #: 33A Material: Spray-On Insulation Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 10% Mica - 10% Other - 60%
Lab ID #: 114247 - 102 Cust. #: 33B Material: Spray-On Insulation Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 10% Mica - 10% Other - 60%
Lab ID #: 114247 - 103 Cust. #: 33C Material: Spray-On Insulation Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 10% Mica - 10% Other - 60%

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
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ARI Report # 24-114247
Date Collected: 11/12/24
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 104 Cust. #: 34A Material: Mastic - Black Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 105 Cust. #: 34B Material: Mastic - Black Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 106 Cust. #: 34C Material: Mastic - Black Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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


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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 107 Cust. #: 35A Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 107a Cust. #: 35A Material: Flashing - Tar/Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 50% Other - 40%
Lab ID #: 114247 - 108 Cust. #: 35B Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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

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Test Method, Polarized Light Microscopy (PLM)
Project: City of Muskegon 880 1st St.
Project #: 2260



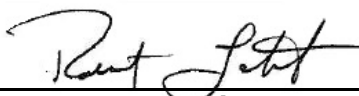
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 108a Cust. #: 35B Material: Flashing - Tar/Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 50% Other - 40%
Lab ID #: 114247 - 109 Cust. #: 35C Material: Tar Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 114247 - 109a Cust. #: 35C Material: Flashing - Tar/Felt Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Cellulose - 50% Other - 40%

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: City of Muskegon 880 1st St.
Project #: 2260



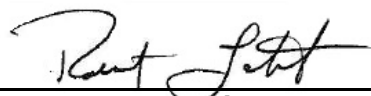
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ARI Report # 24-114247
Date Collected: 11/12/24
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 110 Cust. #: 36A Material: Spray-On Insulation Location: East 1st Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 25% Other - 75%
Lab ID #: 114247 - 111 Cust. #: 36B Material: Spray-On Insulation Location: East 1st Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 25% Other - 75%
Lab ID #: 114247 - 112 Cust. #: 36C Material: Spray-On Insulation Location: East 1st Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 25% Other - 75%

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 113 Cust. #: 37A Material: Spray-On Insulation Location: East Basement Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 25% Other - 75%
Lab ID #: 114247 - 114 Cust. #: 37B Material: Spray-On Insulation Location: East Basement Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 25% Other - 75%
Lab ID #: 114247 - 115 Cust. #: 37C Material: Spray-On Insulation Location: East Basement Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 25% Other - 75%

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

Robert T. Letarte Jr., Laboratory Director

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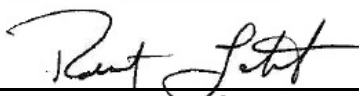
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 116 Cust. #: 38A Material: Mastic/Adhesive Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 117 Cust. #: 38B Material: Mastic/Adhesive Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 118 Cust. #: 38C Material: Mastic/Adhesive Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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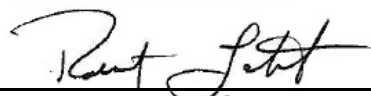
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 119 Cust. #: 39A Material: Concrete Floor Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 120 Cust. #: 39B Material: Concrete Floor Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 121 Cust. #: 39C Material: Concrete Floor Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 122 Cust. #: 40A Material: Concrete Roof Location: Deck Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 123 Cust. #: 40B Material: Concrete Roof Location: Deck Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 124 Cust. #: 40C Material: Concrete Roof Location: Deck Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 125 Cust. #: 41A Material: Pipe Fitting Insulation Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 15% Other - 85%
Lab ID #: 114247 - 126 Cust. #: 41B Material: Pipe Fitting Insulation Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 15% Other - 85%
Lab ID #: 114247 - 127 Cust. #: 41C Material: Pipe Fitting Insulation Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 15% Other - 85%

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

Robert T. Letarte Jr., Laboratory Director

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

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



Report To:

Mr. Cody Adams
Asbestos Abatement, Inc.
2420 N Grand River
Lansing, MI 48906

ARI Report # 24-114247
Date Collected: 11/12/24
Date Received: 11/19/24
Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 128 Cust. #: 42A Material: Mastic Location: Vault Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 129 Cust. #: 42B Material: Mastic Location: Vault Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 130 Cust. #: 42C Material: Mastic Location: Vault Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Project: City of Muskegon 880 1st St.
Project #: 2260



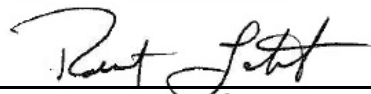
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Lansing, MI 48906

ARI Report # 24-114247
Date Collected: 11/12/24
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Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 131 Cust. #: 43A Material: Mastic Location: Basement Large Room Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 132 Cust. #: 43B Material: Mastic Location: Basement Large Room Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 133 Cust. #: 43C Material: Mastic Location: Basement Large Room Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Certificate of Laboratory Analysis

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Project #: 2260



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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 134 Cust. #: 44A Material: Mastic Location: Basement Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 135 Cust. #: 44B Material: Mastic Location: Basement Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 136 Cust. #: 44C Material: Mastic Location: Basement Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 137 Cust. #: 45A Material: Mastic on Walls - Black Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 138 Cust. #: 45B Material: Mastic on Walls - Black Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 139 Cust. #: 45C Material: Mastic on Walls - Black Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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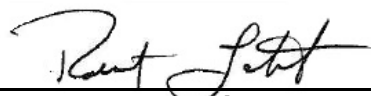
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 140 Cust. #: 46A Material: Mastic - Black, 6", Dots Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 141 Cust. #: 46B Material: Mastic - Black, 6", Dots Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 114247 - 142 Cust. #: 46C Material: Mastic - Black, 6", Dots Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Certificate of Laboratory Analysis
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Project: City of Muskegon 880 1st St.
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 143 Cust. #: 47A Material: Building Caulk - White Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 5%	Other - 95%
Lab ID #: 114247 - 144 Cust. #: 47B Material: Building Caulk - White Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 5%	Other - 95%
Lab ID #: 114247 - 145 Cust. #: 47C Material: Building Caulk - White Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 5%	Other - 95%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 146 Cust. #: 48A Material: Mastic - Black Location: Old Building Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 147 Cust. #: 48B Material: Mastic - Black Location: Old Building Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 148 Cust. #: 48C Material: Mastic - Black Location: Old Building Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 149 Cust. #: 49A Material: Wallboard Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 114247 - 149a Cust. #: 49A Material: Joint Compound Location: Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 114247 - 150 Cust. #: 49B Material: Wallboard Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Test Method, Polarized Light Microscopy (PLM)

Project: City of Muskegon 880 1st St.
Project #: 2260



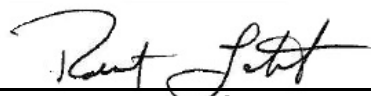
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 150a Cust. #: 49B Material: Joint Compound Location: Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 114247 - 151 Cust. #: 49C Material: Wallboard Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 114247 - 151a Cust. #: 49C Material: Joint Compound Location: Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%

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Certificate of Laboratory Analysis
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 152 Cust. #: 50A Material: Cork Location: Appearance: brown, fibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 114247 - 152a Cust. #: 50A Material: Plaster Finish Coat Ceiling Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 152b Cust. #: 50A Material: Plaster Base Coat Location: Appearance: grey, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 153 Cust. #: 50B Material: Cork Location: Appearance: brown, fibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 114247 - 153a Cust. #: 50B Material: Plaster Finish Coat Ceiling Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 153b Cust. #: 50B Material: Plaster Base Coat Location: Appearance: grey, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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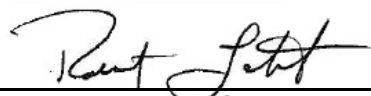
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 154 Cust. #: 50C Material: Cork Location: Appearance: brown, fibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 114247 - 154a Cust. #: 50C Material: Plaster Finish Coat Ceiling Location: Appearance: grey, nonfibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 154b Cust. #: 50C Material: Plaster Base Coat Location: Appearance: grey, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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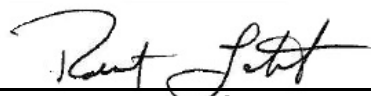
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 155 Cust. #: 51A Material: Stair Tread - Red Location: Appearance: red, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 155a Cust. #: 51A Material: Glue Location: Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 156 Cust. #: 51B Material: Stair Tread - Red Location: Appearance: red, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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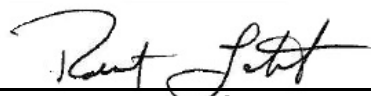
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Mr. Cody Adams
Asbestos Abatement, Inc.
2420 N Grand River
Lansing, MI 48906

ARI Report # 24-114247
Date Collected: 11/12/24
Date Received: 11/19/24
Date Analyzed: 11/20-21/24
Date Reported: 11/21/24

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 114247 - 156a Cust. #: 51B Material: Glue Location: Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 157 Cust. #: 51C Material: Stair Tread - Red Location: Appearance: red, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 114247 - 157a Cust. #: 51C Material: Glue Location: Appearance: yellow, 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. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

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Apex #

114247

Page 1

Company: Asbestos Abatement Inc.
 Customer Name: Andy Rausser
 Address: 2420 Grand River Ave.
 City, St., Zip: Lansing MI 48906
 Phone: 517 323 0052 Fax: _____

Date of Survey: 11/12/24
 Project Name: City of Muskegon 880 1ST ST
 Project #: 2260
 Contact Person: Cody Adams
 Email: CAdams@asbestosabatementinc.com

Turn Around Time: (circle one) **Daily Sample Reception Cutoff: 3 pm, Lead Same Day Cutoff: 10:30 am

Circle analyses required, indicate type and quantity

Same Day

24 Hour

Asbestos: Bulk X

Air _____

Other _____

Point Count _____

48 Hour

3-5 Day

Lead / Cad / Chrome : Paint _____

Air _____

ASTM E1792 Wipe _____

Other: _____

TTP

Mold: Bulk _____

Air _____

Tape _____

Other _____

If RUSH, please specify above.

***Terms & Conditions on other side

(Test Till Positive)

Smoke/Soot/Char: Bulk _____

Wipe _____

Tape _____

Other _____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
	1 ABC	Tar / Flashing - Roof			
	2 ABC	Flat Roof			
	3 ABC	Brick + mortar - orange / Red brick			
	4 ABC	Ceramic Black + mortar			
	5 ABC	Tar Remnants			
	6 ABC	Transite Debris - Roof			
	7 ABC	Tar / Flashing - Perimeter			
	8 ABC	Tar / Flashing - Steel Beams			
	9 ABC	Stucco Debris - Roof			
	10 ABC	2x4 Ceiling Panel			
	11 ABCDEFG	Plaster			
	12 ABC	Mastic on walls - Black			
	13 ABC	Mastic on floor - Black			
	14 ABC	Terrazzo, Tan			
	15 ABC	Pipe Fitting Insulation			

RECEIVED

Relinquished By: [Signature]
 Date: 11/19/24

Received By: _____
 Time/Date: _____

Relinquished By: _____
 Date: _____

Received By: [Signature]
 Time/Date: NOV 19 2024



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Apex #

114247

Page 2

Company: Asbestos Abatement Inc.
 Customer Name: Andy Rawser
 Address: 2420 Grand River Ave.
 City, St., Zip: Lansing MI 48906
 Phone: 517 323 0052 Fax: _____

Date of Survey: 11/12/24
 Project Name: City of Muskegon 880 1st St
 Project #: 2260
 Contact Person: _____
 Email: _____

Turn Around Time: (circle one) **Daily Sample Reception Cutoff: 3 pm, Lead Same Day Cutoff: 10:30 am

Circle analyses required, indicate type and quantity

Same Day ☐ 24 Hour ☐ Asbestos: Bulk ☒ Air ☐ Other ☐ Point Count ☐
 48 Hour ☒ 3-5 Day ☐ Lead / Cad / Chrome : Paint ☐ Air ☐ ASTM E1792 Wipe ☐
 Other: _____ TTP ☐ Mold: Bulk ☐ Air ☐ Tape ☐ Other ☐
 (If RUSH, please specify above. (Test Till Positive) Smoke/Soot/Char: Bulk ☐ Wipe ☐ Tape ☐ Other ☐
 ***Terms & Conditions on other side

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
	16 ABC	CMU Block + mortar			
	17 ABC	Terrazzo - Green			
	18 ABC	Spray on Insulation			
	19 ABC	CMU Block + mortar			
	20 ABC	Ceramic Tile / Grout / mortar 2"x1" Brown			
	21 ABC	Ceramic Tile / Grout / mortar - 2" HED			
	22 ABC	Roof Flashing / Tar			
	23 ABC	Caulking / Sealant - multiple layers ^{gray}			
	24 ABC	multiple layer Caulking			
	25 ABC	Window glazing			
	26 ABC	Flashing / Tar			
	27 ABC	Exterior Bulldog Caulk			
	28 ABC	Terrazzo - Black + Tan			
	29 ABC	Transite			
	30 ABC	Concrete - Floors			

RECEIVED

Relinquished By: AB
 Date: 11/19/24

Received By: _____
 Time/Date: _____

Relinquished By: _____
 Date: _____

Received By: ST
 Time/Date: 0800 NOV 19 2024



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Apex #

114247

Page 3

Company: Asbestos Abatement Inc.
 Customer Name: Andy Rawser
 Address: 2420 Grand River Ave.
 City, St., Zip: Lansing MI 48906
 Phone: 517 323 0052 Fax: _____

Date of Survey: 11/12/24
 Project Name: City of Muskegon 880 1st St
 Project #: 2260
 Contact Person: _____
 Email: _____

Turn Around Time: (circle one) **Daily Sample Reception Cutoff: 3 pm, Load Same Day Cutoff: 10:30 am

Circle analyses required, indicate type and quantity

Same Day

24 Hour

Asbestos: Bulk ☒

Air

Other

Point Count

48 Hour

3-5 Day

Lead/Cad/Chrome: Paint

Air

ASTM E1792 Wipe

Other: _____

TTP

Mold: Bulk

Air

Tape

Other

If RUSH, please specify above.

***Terms & Conditions on other side

(Test Till Positive)

Smoke/Soot/Char: Bulk

Wipe

Tape

Other

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
	31 ABC	Concrete on Beams			
	32 ABC	Mastic - 1st Fl			
	33 ABC	Spray-on Insulation			
	34 ABC	mastic - Black			
	35 ABC	Tar / Flashing			
	36 ABC	Spray-on Insulation - East 1st			
	37 ABC	Spray-on Insulation - East Bsmr			
	38 ABC	mastic / Adhesive			
	39 ABC	Concrete Floor			
	40 ABC	Concrete Roof Deck			
	41 ABC	Pipe Fitting Insulation			
	42 ABC	Mastic - Vault			
	43 ABC	Mastic - Basement Large Room			
	44 ABC	Mastic - Basement			
	45 ABC	Mastic on walls - Black			

Relinquished By: AS

Date: 11/19/24

Received By: _____

Time/Date: _____

Relinquished By: _____

Date: _____

Received By: ST

Time/Date: 0800

NOV 19 2024

APEX RESEARCH



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nov

114247

Page
4

Company: Asbestos Abatement, Inc.

Customer Name: Andy Ranses

Address: 2420 Grand River Ave.

City, St., Zip: Lansley ME 48906

Phone: 517 323 0052 Fax:

Date of Survey: 11/12/24

Project Name: City of Muskegon 880 1st St

Project #: 2260

Contact Person:

Email: _____

Turn Around Time: (circle one) **Daily Sample Reception Cutoff: 3 pm, Lead Same Day Cutoff: 10:30 am

Circle analyses required, indicate type and quantity

~~Same Day~~

24 Hour

Asbestos: Bulk ☒ Air ☐ Other ☐ Point Count ☐

(48 Hour

3-5 Day

Lead/Cad/Chrome: Paint Air ASTM E1792 Wipe

Other:

TTP

Mold:	Bulk	Air	Tape	Other
-------	------	-----	------	-------

If RUSH, please specify above.

(Test Till Positive)

Smoke/Soot/Char: Bulk Wipe Tape Other

***Terms & Conditions on other side

[illegible]

Relinquished By: ASR

Date: 11/19/24

Received By: _____

Time/Date: _____

Relinquished By: _____

Date: _____

Received By:

Time/Date: _____

55
0800 NOV 19 2024

APEX RESEARCH

APPENDIX E

DEFINITIONS & CLASSIFICATIONS

Asbestos Definitions and Classifications

ACM	(Asbestos Containing Material) – Commercial asbestos product containing more than 1% asbestos. ACM must be disposed as hazardous waste. Note: Federal OSHA and Cal-OSHA control materials containing any amount of asbestos.
ACBM	(Asbestos Containing Building Material) – AHERA/ASHARA term for material containing more than 1% asbestos in or on interior structural members or other structural components. Includes covered walkways, porticos and exterior HVAC TSI.
ACCM	(Asbestos Containing Construction Material) – California term for a manufactured construction material containing greater than .1% (one tenth of one percent) asbestos.
PACM	(Presumed Asbestos Containing Material) OSHA considers all TSI and surfacing materials installed prior to 1980 to be ACM unless proven otherwise.
Friable	Asbestos Containing Material that can be crumbled pulverized or reduced to powder by hand pressure when dry.
NOA	Naturally Occurring Asbestos. CARB defines as having >.25% by point counting.
ACM	CARB term for naturally occurring asbestos >.25% by point counting
DACM	Designated Asbestos Containing Material: Floortile installed before 1981

Categories of Asbestos Used BY EPA AHERA/ASHARA and OSHA/Cal-OSHA

TSI	(Thermal System Insulation) - “Thermal system insulation (TSI)” means ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain. “Thermal system insulation ACM” is thermal system insulation which contains more than 1% asbestos.
SURFACING (usually mixed on site at time of application)	“Surfacing material” means material that is sprayed, troweled-on or otherwise applied to surfaces (such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, and other purposes). “Surfacing ACM” means surfacing material which contains more than 1% asbestos. NOTE: OSHA/Cal-OSHA do not classify skim coat, taping mud, floor tile mastic, stucco, leveling compound, and hard wall plasters or wall texturing as surfacing.
MISC.	All other ACM, including classify taping mud, floor tile mastic, stucco, leveling compound, and hard wall plasters or wall texturing as surfacing.

NESHAPS Categories for Asbestos

(Used by Air Quality Management Districts for Renovation and Demolition)

Category I	Cat I Non-friable Asbestos Containing Material (ACM) refers to asbestos containing packing, gaskets, resilient floor covering, Galbestos, and asphalt roofing products containing more than 1% asbestos.
Category II	Cat II Non-friable Asbestos-Containing Material (ACM) is any material that is not Cat I that contains greater than 1% asbestos.
RACM	“Regulated Asbestos-Containing Material.” – Friable manufactured asbestos material (ACM) or a Category I non-friable ACM that has become friable OR a Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading OR 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 demolition or renovation operations. RACM should be removed prior to renovation or demolition.