



46555 Humboldt Dr. Ste. 100
Novi, MI 48377
(248) 669-5140 | oneatlas.com



Client Name:	City of Kalamazoo
Project Name:	Residential Asbestos Survey
Project Number:	188BS23113
Project Site Address (Subject Property):	740 E Vine Street, Kalamazoo, MI 49001
Date of Site Visit:	2/16/23
Asbestos Inspection Performed by:	Andrew DeLodder (A48677)
Asbestos Inspector's Signature:	<i>Andrew DeLodder</i>
Areas Not Accessible:	All Areas Accessible
Number of Floors:	1 Floor
Asbestos Present (Yes/No/Other):	Yes

On the date indicated above, State of Michigan Asbestos Inspector, Andrew DeLodder (A48677) from Atlas Technical Consultants, conducted a pre-demolition asbestos and other regulated materials inspection of the subject unoccupied residential property.

Table I identifies materials that were found to contain asbestos in concentrations greater than 1% and therefore are regulated under the rules of asbestos in the State of Michigan.

**TABLE I
Asbestos-Containing Materials**

ID#	MATERIAL	LOCATION	QUANTITY	RESULT	NESHAP CATEGORY
2-EC-A,B,C	Exterior Caulk- Off-white, around window frames (Some windows can only be accessed via building interior due to patching)	EA-1,2,3,4	5 WINDOWS	PLM 2% Chrysotile	Cat II
3-EC-A,B,C	Exterior Caulk- Gray, around window void	EA-2	15 LF	PLM 4% Chrysotile	Cat II
4-EC-A,B,C	Exterior Caulk- White, around metal door frame	EA-4	20 LF	PLM 5% Chrysotile	Cat II
5-WG-A,B,C	Window Glaze- Beige, on window interior	EA-1,2,3,4	5 WINDOWS	PLM 3% Chrysotile	Cat II

The purpose of this inspection was to task an accredited asbestos inspector to complete a pre-demolition asbestos and hazardous material survey of the subject site, and provide recommendation options for removal and disposal of identified hazardous/regulated materials prior to demolition of the building(s). The asbestos inspection consisted of the following three basic procedures: conducting a visual inspection of the structure, Identifying homogeneous areas (HAs) of suspect surfacing, thermal system insulation, and miscellaneous materials; and sampling identified friable and non-friable suspect materials.

Bulk samples of suspect ACMs were collected and placed into individual containers for transport under Chain of Custody (COC) to a National Voluntary Lab Accreditation Program (NVLAP)-accredited laboratory for analysis. Materials typically known as non-asbestos items (i.e. fibrous glass, foam rubber, wood, etc.) were not sampled.

Laboratory Reports and associated COC's are provided in **Attachment A**. Photographs of the site are included in **Attachment B**. The following sections summarize Atlas' findings.

Table II below identifies the suspect asbestos-containing materials identified during the survey, their locations, approximate quantity, type and percentage of asbestos.

**TABLE II
Suspect Asbestos-Containing Materials**

HA/ID#	MATERIAL	LOCATION	RESULT
1-RM-A,B,C	Roofing Materials- Flat Roof	EA-5	ND
2-EC-A,B,C	Exterior Caulk- Off-white, around window frames (Some windows can only be accessed via building interior due to patching)	EA-1,2,3,4	PLM 2% Chrysotile

3-EC-A,B,C	Exterior Caulk- Gray, around window void	EA-2	PLM 4% Chrysotile
4-EC-A,B,C	Exterior Caulk- White, around metal door frame	EA-4	PLM 5% Chrysotile
5-WG-A,B,C	Window Glaze- Beige, on window interior	EA-1,2,3,4	PLM 3% Chrysotile
6-TPL-A,B,C	Textured Plaster- rough/popcorn mixture (material applied to small section of wall, appears to be a test spot)	FS-3 (NW corner wall by Bay Door)	ND
7-WBS-A,B,C	Wallboard System- Building interior walls	FS-1,2,3,4,5,6	ND
8-FRB-A,B,C	Fiberboard- Ceilings	FS-1,2,3,4,5,6	ND
9-FT- A,B,C	Floor Tile 12" Stick-on, Diamond pattern (Boxes of tile, not applied to floor)	FS-1	ND
10-FT-A,B,C	Floor Tile 12" Stick-on, Faux wood pattern (Boxes of tile, not applied to floor)	FS-1	ND
11-FT-A,B,C	Floor Tile 12" Stick-on, Black Marble pattern (Boxes of tile, not applied to floor)	FS-1	ND
12-FT-A,B,C	Floor Tile 12" Stick-on, Rectangle & Diamond pattern (Boxes of tile, not applied to floor)	FS-1	ND
13-CP-A,B,C	Ceiling Panel- 2'x4' Pinhole/fissure	FS-6	ND
14-CP-A,B,C	Ceiling Panel- 2'x4' Fiberglass with white vinyl cover	FS-5	ND
15-CA-A,B,C	Construction Adhesive, Under Bathroom Backsplash	FS-4	ND
16-BM-A,B,C	Brick Mortar- Brick Siding	EA-1	ND
17-BM-A,B,C	Brick Mortar- CMU Vehicle	EA-1,2,3,4	ND
18-CC-A,B,C	Concrete Chip- Exterior concrete	EA-1,4	ND
19-CC-A,B,C	Concrete Chip- poured concrete slab foundation	FS- 1,2,3,4,5,6	ND
20-EJ-A,B,C	Expansion Joint- Black, between CMU seam	EA-2,4	ND
21-RI-A,B,C	Rolled-in- Insulation Yellow, fiberglass with black/brown paper and a foil cover, Ceilings	FS- 1,2,3,4,5,6	ND

22-RI-A,B,C	Rolled-in- Insulation Yellow, fiberglass with black/brown paper and a foil cover, Walls	FS- 1,2,3,4,5,6	ND
23-GBC-A,B,C	Glass block window grout, Light Gray	EA-4	ND
24-RM-A,B,C	Roofing Materials-Beige, Asphalt shingle roof on front porch	EA-1	ND

ND = No asbestos detected, NA = Not applicable, UNQ = Unquantified; PC = Point Count

No other suspect ACMs were observed on the site. Although not anticipated based on surface observations, underground structures that could contain ACM may be present and should be managed accordingly if encountered during site redevelopment.

Asbestos is a hazardous substance. Its condition, handling and disposal are regulated by federal, state, and local agencies. ACMs generally do not pose a health threat unless the asbestos fibers are disturbed, become airborne and are inhaled.

Contractors working in an area where asbestos is present must be informed of the type and location of ACMs. Abatement of ACMs, including non-friable ACMs, must be performed by a Michigan licensed, certified and registered asbestos abatement contractor in accordance with state and federal Occupational Safety and Health Administration (OSHA) and local air quality management regulations.

Table III below lists Other Regulated Materials/Universal Wastes identified during the survey.

**TABLE III
Other Regulated Materials/Universal Wastes**

MATERIAL	LOCATION	APPROXIMATE QUANTITY
CFCs Air Conditioners/ Refrigerators/Freezers/ Dehumidifiers	HVAC Unit (Refrigerant): FS-1	1
Batteries	Automobile Battery: FS-1	2
Fluorescent/HID Light Fixtures/ Bulbs/ Ballasts	Helical Bulb: EA-1	2
	4" Bulb: FS-1	2
Thermostats	FS-1	1
Tires	EA-1	3

Table IV below lists the functional spaces identified during the survey.

**Table IV
Functional Space/ Exterior Area Designations**

DESCRIPTION	DESIGNATION
Interior Functional Spaces	
Bay Area	FS 1

Room	FS 2
Utility Closet	FS 3
Bathroom	FS 4
Room	FS 5
Entry/ Hall	FS 6
Exterior Areas	
House Front	EA- 1
House Left Side	EA- 2
House Rear	EA- 3
House Right Side	EA- 4
House Roof	EA- 5

RECOMMENDATIONS:

Except for the following items listed below, Section 61.145(c) of the Asbestos NESHAP requires that each owner or operator of a demolition or demolition activity involving RACM remove all such material from a facility being demolished or renovated before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal.

ACM need not be removed before demolition if it:

- (i) Is a Category I non-friable ACM that is not friable.
- (ii) Is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition.
- (iii) Was not accessible for testing and therefore was not discovered until after demolition began and, as a result of the demolition, cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be treated as asbestos-containing waste material and kept adequately wet at all times until disposed of.
- (iv) Is a Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

Demolition with Roofing Materials in place is covered under the NESHAP regulations (40 CFR Part 61 Subpart M).

Roofing materials that were not tested during this inspection should be assumed to be Category I asbestos-containing roofing materials.

Since demolition activities do not include sanding, grinding, cutting, or abrading, Category I asbestos-containing roofing materials not in poor condition and not friable are not considered RACM, and are allowed to remain in place during demolition.

If the asbestos-containing roofing material is not in poor condition and is not friable, it may be disposed of in a landfill which accepts ordinary demolition waste.

The asbestos-containing roofing material may not be ground up for recycling into other products.

*If joint compound within the drywall system is identified as positive, a composite sample was analyzed per NESHAP. If the drywall system as a composite sample is less than 1% asbestos, the material is not considered RACM per NESHAP. However, OSHA requirements regarding materials containing less than 1% asbestos still apply, and contractors performing work should ensure they comply with the requirements if the material is not removed prior to demolition.

In addition, contractors should ensure they follow all OSHA regulations pertaining to demolition / demolition of Category I Asbestos-containing materials. Category I or II non-friable ACM that is not subject to 61.150(a)(3) would still have to be disposed of in a landfill that accepts building debris, in a landfill that operates in accordance with 61.154, or at a facility that operates in accordance with 61.155.

Prior to demolition, the following is recommended:

An asbestos abatement company, licensed in the State of Michigan should remove the materials identified as asbestos containing in Table I in accordance with all applicable Local, State, and Federal Requirements prior to demolition.

Other Regulated Materials/Universal Wastes, identified in Table III, must be transported and disposed in accordance with all applicable Local, State, and Federal Requirements prior to demolition.

LIMITATIONS:

The results, findings, conclusions, and recommendations expressed in the report are based only on conditions that were noted during Atlas' inspection of the vacant above-referenced property located in Kalamazoo, Michigan.

Any conditions or materials that could not be visually identified through limited destructive sampling were not inspected and may differ from those conditions or materials noted. The user of this report should keep in mind that conditions may change with time and observations made by Atlas at the time of the site reconnaissance may not be consistent with future observations made by others.

Additional materials may be encountered during the demolition process and may require further sampling to determine disposal criteria.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating asbestos building materials and Other Regulated Materials/Universal Wastes to be removed prior to demolition activities.

Under no circumstances is the report to be utilized as a bidding document or as a project specification document. Contractors bidding the demolition of this site should field-verify project information.

Atlas appreciates the opportunity to be of service to the City of Kalamazoo on this project. In the meantime, if you have questions regarding the information in this report or if we can be of further assistance do not hesitate to contact our office at (248) 669-5140.

ATTACHMENT A
LABORATORY REPORTS AND CHAIN OF CUSTODY



**ENVIRONMENTAL TESTING
LABORATORIES, INC.**

37575 W HURON RIVER DRIVE
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To: Atlas - Novi
46555 Humboldt Dr. Suite 100
Novi, Michigan 48377

ETL Job: 255283
Client Project: N/A
Report Date: 2/27/2023

Attention: Robert Smith
Project Location: 740 E Vine Street, Kalamazoo, MI 49001

Lab Sample Number	Client Sample Number	Sample Type	Completed
1464094	1-RM-A	Asbestos	02/24/2023
1464095	1-RM-B	Asbestos	02/24/2023
1464096	1-RM-C	Asbestos	02/24/2023
1464097	2-EC-A	Asbestos	02/24/2023
1464098	2-EC-B	Asbestos	02/24/2023
1464099	2-EC-C	Asbestos	02/24/2023
1464100	3-EC-A	Asbestos	02/24/2023
1464101	3-EC-B	Asbestos	02/24/2023
1464102	3-EC-C	Asbestos	02/24/2023
1464103	4-EC-A	Asbestos	02/24/2023
1464104	4-EC-B	Asbestos	02/24/2023
1464105	4-EC-C	Asbestos	02/24/2023
1464106	5-WG-A	Asbestos	02/24/2023
1464107	5-WG-B	Asbestos	02/24/2023
1464108	5-WG-C	Asbestos	02/24/2023
1464109	6-TPL-A	Asbestos	02/24/2023

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Lab Sample Number	Client Sample Number	Sample Type	Completed
1464110	6-TPL-B	Asbestos	02/24/2023
1464111	6-TPL-C	Asbestos	02/24/2023
1464112	7-WBS-A	Asbestos	02/24/2023
1464113	7-WBS-B	Asbestos	02/24/2023
1464114	7-WBS-C	Asbestos	02/24/2023
1464115	8-FRB-A	Asbestos	02/24/2023
1464116	8-FRB-B	Asbestos	02/24/2023
1464117	8-FRB-C	Asbestos	02/24/2023
1464118	9-FT-A	Asbestos	02/24/2023
1464119	9-FT-B	Asbestos	02/24/2023
1464120	9-FT-C	Asbestos	02/24/2023
1464121	10-FT-A	Asbestos	02/24/2023
1464122	10-FT-B	Asbestos	02/24/2023
1464123	10-FT-C	Asbestos	02/24/2023
1464124	11-FT-A	Asbestos	02/24/2023
1464125	11-FT-B	Asbestos	02/24/2023
1464126	11-FT-C	Asbestos	02/24/2023
1464127	12-FT-A	Asbestos	02/24/2023
1464128	12-FT-B	Asbestos	02/24/2023
1464129	12-FT-C	Asbestos	02/24/2023
1464130	13-CP-A	Asbestos	02/24/2023
1464131	13-CP-B	Asbestos	02/24/2023
1464132	13-CP-C	Asbestos	02/24/2023
1464133	14-CP-A	Asbestos	02/24/2023
1464134	14-CP-B	Asbestos	02/24/2023
1464135	14-CP-C	Asbestos	02/24/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1464136	15-CA-A	Asbestos	02/24/2023
1464137	15-CA-B	Asbestos	02/24/2023
1464138	15-CA-C	Asbestos	02/24/2023
1464139	16-BM-A	Asbestos	02/24/2023
1464140	16-BM-B	Asbestos	02/24/2023
1464141	16-BM-C	Asbestos	02/24/2023
1464142	17-BM-A	Asbestos	02/24/2023
1464143	17-BM-B	Asbestos	02/24/2023
1464144	17-BM-C	Asbestos	02/24/2023
1464145	18-CC-A	Asbestos	02/24/2023
1464146	18-CC-B	Asbestos	02/24/2023
1464147	18-CC-C	Asbestos	02/24/2023
1464148	19-CC-A	Asbestos	02/24/2023
1464149	19-CC-B	Asbestos	02/24/2023
1464150	19-CC-C	Asbestos	02/24/2023
1464151	20-EJ-A	Asbestos	02/24/2023
1464152	20-EJ-B	Asbestos	02/24/2023
1464153	20-EJ-C	Asbestos	02/24/2023
1464154	21-RI-A	Asbestos	02/24/2023
1464155	21-RI-B	Asbestos	02/24/2023
1464156	21-RI-C	Asbestos	02/24/2023
1464157	22-RI-A	Asbestos	02/24/2023
1464158	22-RI-B	Asbestos	02/24/2023
1464159	22-RI-C	Asbestos	02/24/2023
1464160	23-GBG-A	Asbestos	02/24/2023
1464161	23-GBG-B	Asbestos	02/24/2023

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Lab Sample Number	Client Sample Number	Sample Type	Completed
1464162	23-GBG-C	Asbestos	02/24/2023
1464163	24-RM-A	Asbestos	02/24/2023
1464164	24-RM-B	Asbestos	02/24/2023
1464165	24-RM-C	Asbestos	02/24/2023

Reviewed by: *Emily Nowacki*
Emily Nowacki

<u>Summary</u>			
Method	Sample	Layer	Mastic
PLM	76	6	



Certificate of Analysis

Environmental Testing Laboratories, Inc.



37575 W Huron River Drive
Romulus, Michigan 48174
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi
46555 Humboldt Dr. Suite 100
Novi, Michigan 48377

ETL Job : 255283

Client Project : N/A

Date Collected : 02/16/2023

Date Received : 02/22/2023

Location :

740 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464094 1-RM-A	Roofing Materials/Adhesive	Black Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464094 1-RM-A	Backing	Black Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Layer-2 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464095 1-RM-B	Roofing Materials/Adhesive	Black Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464095 1-RM-B	Backing	Black Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Layer-2 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464096 1-RM-C	Roofing Materials/Adhesive	Black Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464096 1-RM-C	Backing	Black Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Layer-2 Analyst: Chris Canilao Date Analyzed : 02/24/2023					

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Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi
46555 Humboldt Dr. Suite 100
Novi, Michigan 48377

ETL Job : 255283
Client Project : N/A
Date Collected : 02/16/2023
Date Received : 02/22/2023

Location :
740 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464097 2-EC-A	Exterior Caulk	Gray Non-Fibrous Non-Homogenous	PLM Trace Cellulose	PLM 98% Other	PLM 2% Chrysotile

Analyst: Chris Canilao
Date Analyzed : 02/24/2023

1464098 2-EC-B		Positive Stop			
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Analyst: Chris Canilao
Date Analyzed : 02/24/2023

Sample Not Analyzed

1464099 2-EC-C		Positive Stop			
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Analyst: Chris Canilao
Date Analyzed : 02/24/2023

Sample Not Analyzed

1464100 3-EC-A	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 94% Other	PLM 4% Chrysotile
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Analyst: Chris Canilao
Date Analyzed : 02/24/2023

1464101 3-EC-B		Positive Stop			
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Analyst: Chris Canilao
Date Analyzed : 02/24/2023

Sample Not Analyzed

1464102 3-EC-C		Positive Stop			
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Analyst: Chris Canilao
Date Analyzed : 02/24/2023

Sample Not Analyzed

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Polarized Light Microscopy Asbestos Analysis Report

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Novi, Michigan 48377

ETL Job : 255283
Client Project : N/A
Date Collected : 02/16/2023
Date Received : 02/22/2023

Location :
740 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464103 4-EC-A	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 93% Other	PLM 5% Chrysotile

Analyst: Chris Canilao
Date Analyzed : 02/24/2023

1464104 4-EC-B		Positive Stop			
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Analyst: Chris Canilao
Date Analyzed : 02/24/2023
Sample Not Analyzed

1464105 4-EC-C		Positive Stop			
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Analyst: Chris Canilao
Date Analyzed : 02/24/2023
Sample Not Analyzed

1464106 5-WG-A	Window Glaze	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 95% Other	PLM 3% Chrysotile
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Analyst: Chris Canilao
Date Analyzed : 02/24/2023

1464107 5-WG-B		Positive Stop			
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Analyst: Chris Canilao
Date Analyzed : 02/24/2023
Sample Not Analyzed

1464108 5-WG-C		Positive Stop			
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Analyst: Chris Canilao
Date Analyzed : 02/24/2023
Sample Not Analyzed

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Novi, Michigan 48377

ETL Job : 255283

Client Project : N/A

Date Collected : 02/16/2023

Date Received : 02/22/2023

Location :

740 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464109 6-TPL-A	Textured Plaster	White Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464110 6-TPL-B	Textured Plaster	White Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464111 6-TPL-C	Textured Plaster	White Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464112 7-WBS-A	Wallboard System - Drywall	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464112 7-WBS-A	Mud	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-2 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464112 7-WBS-A	Tape	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Layer-3 Analyst: Chris Canilao Date Analyzed : 02/24/2023					

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Certificate of Analysis

Environmental Testing Laboratories, Inc.



37575 W Huron River Drive
Romulus, Michigan 48174
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi
46555 Humboldt Dr. Suite 100
Novi, Michigan 48377

ETL Job : 255283
Client Project : N/A
Date Collected : 02/16/2023
Date Received : 02/22/2023

Location :
740 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464113 7-WBS-B	Wallboard System - Drywall	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464113 7-WBS-B	Mud	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-2 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464113 7-WBS-B	Tape	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Layer-3 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464114 7-WBS-C	Wallboard System - Drywall	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464114 7-WBS-C	Mud	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-2 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464114 7-WBS-C	Tape	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Layer-3 Analyst: Chris Canilao Date Analyzed : 02/24/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464115 8-FRB-A	Fiberboard	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464116 8-FRB-B	Fiberboard	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464117 8-FRB-C	Fiberboard	Brown Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464118 9-FT-A	Floor Tile	Blue Non-Fibrous Non-Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464119 9-FT-B	Floor Tile	Blue Non-Fibrous Non-Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464120 9-FT-C	Floor Tile	Blue Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464121 10-FT-A	Floor Tile	Brown Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464122 10-FT-B	Floor Tile	Brown Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464123 10-FT-C	Floor Tile	Brown Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464124 11-FT-A	Floor Tile	Black Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464125 11-FT-B	Floor Tile	Black Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464126 11-FT-C	Floor Tile	Black Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464127 12-FT-A	Floor Tile	Green Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464128 12-FT-B	Floor Tile	Green Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464129 12-FT-C	Floor Tile	Green Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464130 13-CP-A	Ceiling Panel	Gray Fibrous Homogenous	PLM 80% Cellulose PLM 20% Fiberglass		PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464131 13-CP-B	Ceiling Panel	Gray Fibrous Homogenous	PLM 60% Cellulose PLM 20% Fiberglass	PLM 20% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464132 13-CP-C	Ceiling Panel	Gray Fibrous Homogenous	PLM 60% Cellulose PLM 20% Fiberglass	PLM 20% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464133 14-CP-A	Ceiling Panel	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464134 14-CP-B	Ceiling Panel	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464135 14-CP-C	Ceiling Panel	Yellow Fibrous Homogenous	PLM 90% Fiberglass	PLM 10% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464136 15-CA-A	Construction Adhesive	Orange Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464137 15-CA-B	Construction Adhesive	Orange Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464138 15-CA-C	Construction Adhesive	Orange Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					

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ETL Job : 255283
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Location :
740 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464139 16-BM-A	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464140 16-BM-B	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464141 16-BM-C	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464142 17-BM-A	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464143 17-BM-B	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464144 17-BM-C	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					

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NVLAP LAB CODE 240220

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Date Collected : 02/16/2023
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Location :
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464145 18-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464146 18-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464147 18-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Chris Canilao Date Analyzed : 02/24/2023					
1464148 19-CC-A	Concrete Chip, Poured Concrete Slab Foundation	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464149 19-CC-B	Concrete Chip, Poured Concrete Slab Foundation	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464150 19-CC-C	Concrete Chip, Poured Concrete Slab Foundation	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed : 02/24/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464151 20-EJ-A	Expansion Joint, Between CMU Seam	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464152 20-EJ-B	Expansion Joint, Between CMU Seam	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464153 20-EJ-C	Expansion Joint, Between CMU Seam	Black Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464154 21-RI-A	Rolled In Insulation	Pink Fibrous Homogenous	PLM 97% Fiberglass	PLM 3% Other	PLM None Detected
Layer-1 Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464154 21-RI-A	Foil Backing	Black Fibrous Homogenous	PLM 50% Fiberglass	PLM 50% Other	PLM None Detected
Layer-2 Analyst: OJ Ivey Date Analyzed : 02/24/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464155 21-RI-B	Rolled In Insulation	Pink Fibrous Homogenous	PLM 99% Fiberglass	PLM 1% Other	PLM None Detected
Layer-1 Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464155 21-RI-B	Foil Backing	Black Fibrous Homogenous	PLM 70% Fiberglass	PLM 30% Other	PLM None Detected
Layer-2 Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464156 21-RI-C	Rolled In Insulation	Pink Fibrous Homogenous	PLM 91% Fiberglass	PLM 9% Other	PLM None Detected
Layer-1 Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464156 21-RI-C	Foil Backing	Black Fibrous Homogenous	PLM 65% Fiberglass	PLM 35% Other	PLM None Detected
Layer-2 Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464157 22-RI-A	Rolled In Insulation	Yellow Fibrous Homogenous	PLM 100% Fiberglass		PLM None Detected
Layer-1 Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464157 22-RI-A	Paper Backing	Silver Fibrous Homogenous	PLM 55% Fiberglass	PLM 45% Other	PLM None Detected
Layer-2 Analyst: OJ Ivey Date Analyzed : 02/24/2023					

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 740 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464158 22-RI-B Layer-1 Analyst: OJ Ivey Date Analyzed : 02/24/2023	Rolled In Insulation	Yellow Fibrous Homogenous	PLM 98% Fiberglass	PLM 2% Other	PLM None Detected
1464158 22-RI-B Layer-2 Analyst: OJ Ivey Date Analyzed : 02/24/2023	Paper Backing	Silver Fibrous Homogenous	PLM 53% Fiberglass	PLM 47% Other	PLM None Detected
1464159 22-RI-C Layer-1 Analyst: OJ Ivey Date Analyzed : 02/24/2023	Rolled In Insulation	Yellow Fibrous Homogenous	PLM 97% Fiberglass	PLM 3% Other	PLM None Detected
1464159 22-RI-C Layer-2 Analyst: OJ Ivey Date Analyzed : 02/24/2023	Paper Backing	Silver Fibrous Homogenous	PLM 50% Fiberglass	PLM 50% Other	PLM None Detected
1464160 23-GBG-A Analyst: OJ Ivey Date Analyzed : 02/24/2023	Glass Block, Window Grout	Light Grey Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1464161 23-GBG-B Analyst: OJ Ivey Date Analyzed : 02/24/2023	Glass Block, Window Grout	Light Grey Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected

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Certificate of Analysis

Environmental Testing Laboratories, Inc.
 37575 W Huron River Drive
 Romulus, Michigan 48174
 (734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi
 46555 Humboldt Dr. Suite 100
 Novi, Michigan 48377

ETL Job : 255283
 Client Project : N/A
 Date Collected : 02/16/2023
 Date Received : 02/22/2023

Location :
 740 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464162 23-GBG-C	Glass Block, Window Grout	Light Grey Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464163 24-RM-A	Roofing Materials, Asphalt Shingle	Black Fibrous Homogenous	PLM 25% Fiberglass	PLM 75% Other	PLM None Detected
Layer-1 Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464163 24-RM-A	Felt	Black Fibrous Homogenous	PLM 15% Fiberglass	PLM 85% Other	PLM None Detected
Layer-2 Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464164 24-RM-B	Roofing Materials, Asphalt Shingle	Black Fibrous Homogenous	PLM 25% Fiberglass	PLM 75% Other	PLM None Detected
Layer-1 Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464164 24-RM-B	Felt	Black Fibrous Homogenous	PLM 15% Fiberglass	PLM 85% Other	PLM None Detected
Layer-2 Analyst: OJ Ivey Date Analyzed : 02/24/2023					

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Polarized Light Microscopy Asbestos Analysis Report

To : Atlas - Novi
46555 Humboldt Dr. Suite 100
Novi, Michigan 48377

ETL Job : 255283
Client Project : N/A
Date Collected : 02/16/2023
Date Received : 02/22/2023

Location :
740 E Vine Street, Kalamazoo, MI 49001

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1464165 24-RM-C	Roofing Materials, Asphalt Shingle	Black Fibrous Homogenous	PLM 35% Fiberglass	PLM 65% Other	PLM None Detected
Layer-1 Analyst: OJ Ivey Date Analyzed : 02/24/2023					
1464165 24-RM-C	Felt	Black Fibrous Homogenous	PLM 15% Fiberglass	PLM 85% Other	PLM None Detected
Layer-2 Analyst: OJ Ivey Date Analyzed : 02/24/2023					

Edwin Wilkins
Lab Supervisor/Other Signatory

Analyst:

Chris Canilao
Chris Canilao

OJ Ivey
OJ Ivey

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")
Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples
Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples
EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials
EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples
A % Asbestos result of "Trace" indicates that the analyzed material was found to contain less than 1% asbestos and would not be considered an Asbestos Containing Material (ACM).

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 FAX: (734) 992-2261
 www.2ell.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: **255283**

Client: ATC Group Services	Contact: Rob Smith Phone: 248-669-6140	Project Location/Name: 740 E VINE STREET, KALAMAZOO, MICHIGAN 49001
Address: 46556 Humboldt Dr. Ste. 100 Novi, MI 48377	Fax: 248-669-5147 E-mail: rsmith@atc.com	Client Project #:
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		Date Sampled: 2.16.2023

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3-5 days) Other 72 hours

PLM Instructions
 (Check all that apply)

PLM EPA500/R-93/116, 1993 (Standard method) Stop at 1st Positive -
 Point Counting: 400 Points* NYSDOH ELAP 198.1, 2002* *Clearly mark Homogeneous Group*

Gravimetric Reduction* NYSDOH ELAP 198.6, 2010*

PLM Non-Building Material (Dust, Wipe, Tape) Soil or Vermiculite Analysis*

* Additional charge and turnaround may be required

Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
146, 4094	1-RM-A,B,C 0915, 0916	Roofing materials - Flat roof	EA-5	2,050 SF
097, 098	2-EC-A,B,C 09A	Exterior caulk - off-white, around window frames. Note that some windows can only be accessed via building interior due to patching	EA-1,2,3,4	5 windows
100, 101, 102	3-EC-A,B,C	Exterior caulk - grey, around window void	EA-2	15 LF
103, 104, 105	4-EC-A,B,C	Exterior caulk - white, around metal door frame	EA-4	20 LF
106, 107, 108	5-WG-A,B,C	Window Glaze - beige, on window interior	EA-1,2,3,4	5 windows
109, 110, 111	6-TPL-A,B,C	Textured plaster - rough/popcorn mixture (material applied to small section of wall. Appears to be a test spot)	FS-3 (first-west corner wall by bay door)	30 SF
112, 113, 114	7-WBS-A,B,C	Wallboard system - building interior walls	FS-1,2,3,4,5,6	1,650 SF
115, 116, 117	8-FRB-A,B,C	Fiberboard - ceiling	FS-1,2,3,4,5,6	2,650 SF
118, 119, 120	9-FT-A,B,C	Fiber tile - 12" stick-on, diamond pattern (boxes of tile, not applied to floor)	FS-1	3 boxes
121, 122, 123	10-FT-A,B,C	Fiber tile - 12" stick-on, four wood pattern (boxes of tile, not applied to floor)	FS-1	3 boxes

Requested (Name/Organization)	Received (Name/ETL)	Sample Log (Name/ETL)	Stereoscopic/Sample Analysis (Name/ETL)	Results (Name/ETL)	QA/QC Review (Name/ETL)	Date	Time
Andrew Detelder JASys Technical Consultants	Rovena S. Park	Rovena S. Park	Cobalt	Cobalt		2/20/23	11:00 AM
						2-22-23	11:30 AM
						2-22-23	12:20 PM
						2-24-23	1:00 PM
						2-24-23	1:00 PM
						2-27-23	09:30 AM

Special Instructions: 1st Positive Stop;
 • Composite all drywall/joint compound/mud samples (if any layer of system is GREATER than 1% asbestos);
 • Point Count ALL PLASTER samples. Trace to 1% asbestos content
 • Point Count ALL SAMPLES Trace to 1% asbestos content

Remarks:

***IN ORDER TO ENSURE RESULTS BY SPECIFIED TAT, THE LAB MUST BE EMAILED/CALLED WITH THE QUANTITY OF SAMPLES TO BE SHIPPED OR DROPPED OFF

ATTACHMENT B
PHOTOGRAPHS

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
740 E. VINE STREET
KALAMAZOO, MI 49001



Street view of the building located at 740 E. Vine Street (EA-1) and roof (EA-5)



View of the left side of the building (EA-2)

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
740 E. VINE STREET
KALAMAZOO, MI 49001



View of the rear of the building (EA-3)



View of the right side of the building (EA-4)

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
740 E. VINE STREET
KALAMAZOO, MI 49001



View of FS-1



View of FS-2

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
740 E.VINE STREET
KALAMAZOO, MI 49001



View of FS-3



View of FS-4

ASBESTOS-CONTAINING MATERIAL SURVEY
VACANT COMMERCIAL PROPERTY
740 E. VINE STREET
KALAMAZOO, MI 49001

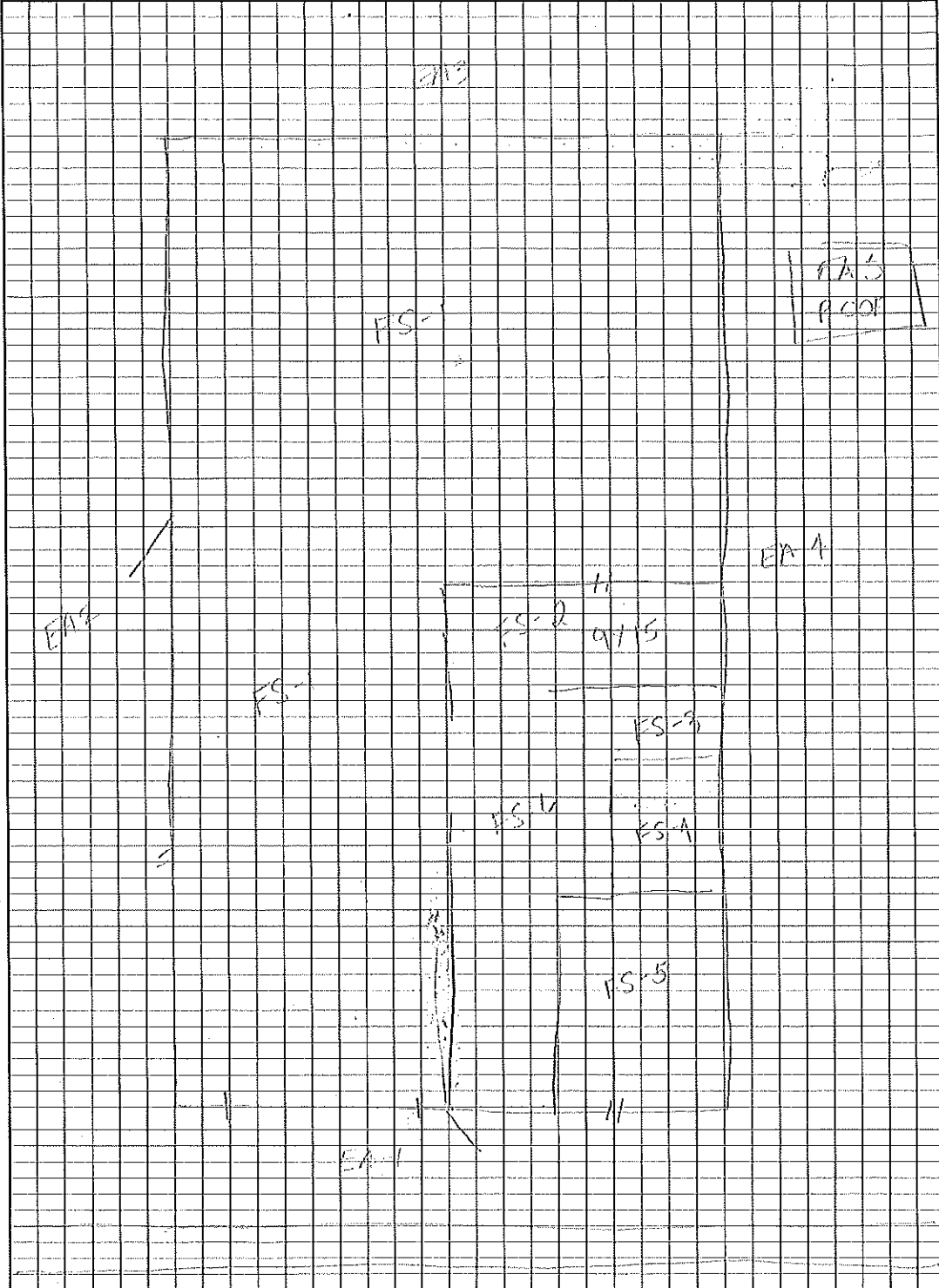


View of FS-5

View of FS-6

ATTACHMENT C
FUNCTIONAL SPACE MAPS

Circle: (Attic) (1st Floor) (2nd Floor) (Basement) (Garage)



Street Address: 740 E Vine Street, Kalamazoo, Michigan 49001

31'

Inaccessible


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