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:	188BS23234
Project Site Address (Subject Property):	518 W. North Street, Kalamazoo, MI 49007
Date of Site Visit:	March 31, 2023
Asbestos Inspection Performed by:	Andrew DeLodder (A48677)
Asbestos Inspector's Signature:	Andrew DeLodder
Areas Not Accessible:	All Areas Accessible
Number of Floors:	2 Floors with Basement and Attic
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-TS-A,B,C	**Transite Siding- Exterior walls & pipe under rear porch**	**EA-1,2,3,4**	**1,890 SF**	**PLM 10% Chrysotile**	**MM**
7-EC-A,B,C	**Exterior Caulk- Gray, on transite (patches, seams, roofline)**	**EA-1,2,3,4**	**155 LF**	**PLM 4% Chrysotile**	**MM**
34-DW-A,B,C	**Duct Wrap- Over duct in attic ductwork, directly to the right after attic void door, may be located on risers in walls**	**FS-15**	**10 SF**	**PLM 50% Chrysotile**	**TSI**

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 Material- House asphalt shingle roof	EA-10	ND
2-TS-A,B,C	**Transite Siding- Exterior walls & pipe under rear porch**	**EA-1,2,3,4**	**PLM 10% Chrysotile**
3-VP-A,B,C	Vapor Paper- under wood siding (under transite siding)	EA-1,2,3,4	ND
4-VP-A,B,C	Vapor Paper- Black, under transite siding	EA-1,2,3,4	ND
5-VP-A,B,C	Vapor Paper- Black, under transite siding seam	EA-1,2,3,4	ND
6-EC-A,B,C	Exterior Caulk- Gray, on front porch wood siding/trim	EA-1	ND
7-EC-A,B,C	**Exterior Caulk- Gray, on transite (patches, seams, roofline)**	**EA-1,2,3,4**	**PLM 4% Chrysotile**
8-EC-A,B,C	Exterior Caulk- Beige, Perimeter of basement windows	EA-2, 4	ND

HA/ID#	MATERIAL	LOCATION	RESULT
9-WG-A,B,C	Window Glaze- Basement windows	EA-2, 4	ND
10-WG-A,B,C	Window Glaze- Multi-pane window (rear porch window)	EA-3	ND
11-PL-A,B,C	Plaster- on lath, in closets of bedrooms	FS-11,13	ND
12-WBS-A,B,C	Wallboard System- Wall	EA-1	ND
13-WBS-A,B,C	Wallboard System- Walls/ceiling	FS-4,5,7,8,9,10,11,12,13,14	ND
14-SC-A,B,C	Stack Cement- on stack	FS-2	ND
15-HS-A,B,C	Heat Shield- Light fixture	FS-4	ND
16-FS-A,B,C	Floor Sheeting- Kitchen	FS-7	ND
17-MLF-A,B,C	Multi-layer Floor- Rear porch	FS-16	ND
18-MLF-A,B,C	Multi-layer Floor- Dining room/ Living room	FS-9, 10	ND
19-FT-A,B,C	Floor Tile- Stack of 12" Blue & beige with rectangle pattern stick-on	FS-14	ND
20-BM-A,B,C	Brick Mortar- Red brick debris	EA-1	ND
21-BM-A,B,C	Brick Mortar- Exterior foundation, concrete block	EA-1,2,3,4	ND
22-BM-A,B,C	Brick Mortar- Stack	FS-2	ND
23-CC-A,B,C	Concrete Chip- Exterior	EA-1	ND
24-CC-A,B,C	Concrete Chip- Basement wall skim coat	FS-1	ND
25-CC-A,B,C	Concrete Chip- Basement floor	FS-1	ND
26-CC-A,B,C	Concrete Chip- Basement wall (Under skim coat)	FS-1	ND
27-BI-A,B,C	Blown-in-Insulation- Cellulose, attic & attic voids	FS-3, 15	ND
28-RI-A,B,C	Rolled-in-Insulation- White, packed in rat-wall, no backing paper	FS-1	ND
29-RI-A,B,C	Rolled-in-Insulation- White with backing paper black backing paper, attic voids	FS-3, 15	ND
30-RI-A,B,C	Rolled-in-Insulation- (1st & 2nd Floor) Red with brown backing paper- in exterior walls	EA-1,2,3,4	ND
31-IC-A,B,C	Interior Caulk- Gray, seams of HVAC ducts	FS-1	ND
32-IC-A,B,C	Interior Caulk- White, on interior wood trim	FS-4,5,6,7,8,9,10,11,13,14	ND
33-RI-A,B,C	Rolled-in-Insulation- Hot water heated tank insulation, Yellow with white vinyl wrap	FS-1	ND
34-DW-A,B,C	**Duct Wrap- Over duct in attic ductwork, directly to the right after attic void door, may be located on risers in walls**	**FS-15**	**PLM 50% Chrysotile**

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	FS-1 Furnace & Hot Water Heater	2
CRTs TV Screens/ Monitors/ Electronics	FS-1	1
*Automobile, Lawn Mower, Snow Blower	FS-9 Lawn Mower	1
Misc. Items (Glue, Solvents, Cleaners, etc.)	FS-1	15
Paint Cans	FS- 1, 14, 15	7
Security Alarms/ Systems	FS-1	1
Smoke Detectors	FS- 9, 10, 13, 14	5
Thermostats	FS-10	1
Natural Gas Regulator	FS-1	1
Tires	FS-1, EA-3	3

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

Table IV
Functional Space/ Exterior Area Designations

DESCRIPTION	DESIGNATION
Interior Functional Spaces	
First Floor	FS 4,5,6,7,8,9,10 &15
2nd Floor	FS 6,11,12,13,14 &15
Attic	FS 3
Stairs to Basement	FS 8
Basement	FS 1, 2 & 8
Stack	FS-2
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: 256487
Client Project: 188BS23234

Attention: Robert Smith
Project Location: 518 W North St.

Lab Sample Number	Client Sample Number	Sample Type	Completed
1483675	1-RM-A	Asbestos	04/07/2023
1483676	1-RM-B	Asbestos	04/07/2023
1483677	1-RM-C	Asbestos	04/07/2023
1483678	2-TS-A	Asbestos	04/07/2023
1483679	2-TS-B	Asbestos	04/07/2023
1483680	2-TS-C	Asbestos	04/07/2023
1483681	3-VP-A	Asbestos	04/07/2023
1483682	3-VP-B	Asbestos	04/07/2023
1483683	3-VP-C	Asbestos	04/07/2023
1483684	4-VP-A	Asbestos	04/07/2023
1483685	4-VP-B	Asbestos	04/07/2023
1483686	4-VP-C	Asbestos	04/07/2023
1483687	5-VP-A	Asbestos	04/07/2023
1483688	5-VP-B	Asbestos	04/07/2023
1483689	5-VP-C	Asbestos	04/07/2023
1483690	6-EC-A	Asbestos	04/07/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1483691	6-EC-B	Asbestos	04/07/2023
1483692	6-EC-C	Asbestos	04/07/2023
1483693	7-EC-A	Asbestos	04/07/2023
1483694	7-EC-B	Asbestos	04/07/2023
1483695	7-EC-C	Asbestos	04/07/2023
1483696	8-EC-A	Asbestos	04/07/2023
1483697	8-EC-B	Asbestos	04/07/2023
1483698	8-EC-C	Asbestos	04/07/2023
1483699	9-WG-A	Asbestos	04/07/2023
1483700	9-WG-B	Asbestos	04/07/2023
1483701	9-WG-C	Asbestos	04/07/2023
1483702	10-WG-A	Asbestos	04/07/2023
1483703	10-WG-B	Asbestos	04/07/2023
1483704	10-WG-C	Asbestos	04/07/2023
1483705	11-PL-A	Asbestos	04/07/2023
1483706	11-PL-B	Asbestos	04/07/2023
1483707	11-PL-C	Asbestos	04/07/2023
1483708	12-WBS-A	Asbestos	04/07/2023
1483709	12-WBS-B	Asbestos	04/07/2023
1483710	12-WBS-C	Asbestos	04/07/2023
1483711	13-WBS-A	Asbestos	04/07/2023
1483712	13-WBS-B	Asbestos	04/07/2023
1483713	13-WBS-C	Asbestos	04/07/2023
1483714	14-SC-A	Asbestos	04/07/2023
1483715	14-SC-B	Asbestos	04/07/2023
1483716	14-SC-C	Asbestos	04/07/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1483717	15-HS-A	Asbestos	04/07/2023
1483718	15-HS-B	Asbestos	04/07/2023
1483719	15-HS-C	Asbestos	04/07/2023
1483720	16-FS-A	Asbestos	04/07/2023
1483721	16-FS-B	Asbestos	04/07/2023
1483722	16-FS-C	Asbestos	04/07/2023
1483723	17-MLF-A	Asbestos	04/07/2023
1483724	17-MLF-B	Asbestos	04/07/2023
1483725	17-MLF-C	Asbestos	04/07/2023
1483726	18-MLF-A	Asbestos	04/07/2023
1483727	18-MLF-B	Asbestos	04/07/2023
1483728	18-MLF-C	Asbestos	04/07/2023
1483729	19-FT-A	Asbestos	04/07/2023
1483730	19-FT-B	Asbestos	04/07/2023
1483731	19-FT-C	Asbestos	04/07/2023
1483732	20-BM-A	Asbestos	04/07/2023
1483733	20-BM-B	Asbestos	04/07/2023
1483734	20-BM-C	Asbestos	04/07/2023
1483735	21-BM-A	Asbestos	04/07/2023
1483736	21-BM-B	Asbestos	04/07/2023
1483737	21-BM-C	Asbestos	04/07/2023
1483738	22-BM-A	Asbestos	04/07/2023
1483739	22-BM-B	Asbestos	04/07/2023
1483740	22-BM-C	Asbestos	04/07/2023
1483741	23-CC-A	Asbestos	04/07/2023
1483742	23-CC-B	Asbestos	04/07/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1483743	23-CC-C	Asbestos	04/07/2023
1483744	24-CC-A	Asbestos	04/07/2023
1483745	24-CC-B	Asbestos	04/07/2023
1483746	24-CC-C	Asbestos	04/07/2023
1483747	25-CC-A	Asbestos	04/07/2023
1483748	25-CC-B	Asbestos	04/07/2023
1483749	25-CC-C	Asbestos	04/07/2023
1483750	26-CC-A	Asbestos	04/07/2023
1483751	26-CC-B	Asbestos	04/07/2023
1483752	26-CC-C	Asbestos	04/07/2023
1483753	27-BI-A	Asbestos	04/07/2023
1483754	27-BI-B	Asbestos	04/07/2023
1483755	27-BI-C	Asbestos	04/07/2023
1483756	28-RI-A	Asbestos	04/07/2023
1483757	28-RI-B	Asbestos	04/07/2023
1483758	28-RI-C	Asbestos	04/07/2023
1483759	29-RI-A	Asbestos	04/07/2023
1483760	29-RI-B	Asbestos	04/07/2023
1483761	29-RI-C	Asbestos	04/07/2023
1483762	30-RI-A	Asbestos	04/07/2023
1483763	30-RI-B	Asbestos	04/07/2023
1483764	30-RI-C	Asbestos	04/07/2023
1483765	31-IC-A	Asbestos	04/07/2023
1483766	31-IC-B	Asbestos	04/07/2023
1483767	31-IC-C	Asbestos	04/07/2023
1483768	32-IC-A	Asbestos	04/07/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
1483769	32-IC-B	Asbestos	04/07/2023
1483770	32-IC-C	Asbestos	04/07/2023
1483771	33-RI-A	Asbestos	04/07/2023
1483772	33-RI-B	Asbestos	04/07/2023
1483773	33-RI-C	Asbestos	04/07/2023
1483774	34-DW-A	Asbestos	04/07/2023
1483775	34-DW-B	Asbestos	04/07/2023
1483776	34-DW-C	Asbestos	04/07/2023

Reviewed by:

Eleni Kiliaris

Summary

Method	Sample	Layer	Mastic
PLM	114	3	3

NVLAP LAB CODE 201028-0

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

Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
518 W North St.

ETL Job : 256487
Client Project : 188BS23234
Date Collected : 03/31/2023
Date Received : 04/05/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483675 1-RM-A	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483675 1-RM-A	Roofing Material	Black Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483676 1-RM-B	Roofing Material	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483676 1-RM-B	Roofing Material	Black Fibrous Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483677 1-RM-C	Roofing Material	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483677 1-RM-C	Roofing Material	Black Fibrous Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483678 2-TS-A	Transite Siding	Gray Non-Fibrous Homogenous	PLM 25% Cellulose	PLM 65% Other	PLM 10% Chrysotile
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483679 2-TS-B		Positive Stop			
Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023 Sample Not Analyzed					
1483680 2-TS-C		Positive Stop			
Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023 Sample Not Analyzed					
1483681 3-VP-A	Vapor Paper	Black Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483682 3-VP-B	Vapor Paper	Black Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483683 3-VP-C	Vapor Paper	Black Fibrous Homogenous	PLM 20% Cellulose	PLM 80% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483684 4-VP-A	Vapor Paper	Black Fibrous Homogenous	PLM 8% Cellulose	PLM 92% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483685 4-VP-B	Vapor Paper	Black Fibrous Homogenous	PLM 6% Cellulose	PLM 94% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483686 4-VP-C	Vapor Paper	Black Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483687 5-VP-A	Vapor Paper	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483688 5-VP-B	Vapor Paper	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483689 5-VP-C	Vapor Paper	Black Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Location :
518 W North St.

ETL Job : 256487
Client Project : 188BS23234
Date Collected : 03/31/2023
Date Received : 04/05/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483690 6-EC-A	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483691 6-EC-B	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483692 6-EC-C	Exterior Caulk	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483693 7-EC-A	Exterior Caulk	Gray Non-Fibrous Non-Homogenous	PLM 3% Cellulose	PLM 93% Other	PLM 4% Chrysotile
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483694 7-EC-B		Positive Stop			
Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023 Sample Not Analyzed					
1483695 7-EC-C		Positive Stop			
Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023 Sample Not Analyzed					

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

Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
518 W North St.

ETL Job : 256487
Client Project : 188BS23234
Date Collected : 03/31/2023
Date Received : 04/05/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483696 8-EC-A	Exterior Caulk	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483697 8-EC-B	Exterior Caulk	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483698 8-EC-C	Exterior Caulk	Beige Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483699 9-WG-A	Window Glaze	White Non-Fibrous Non-Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483700 9-WG-B	Window Glaze	White Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483701 9-WG-C	Window Glaze	White Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483702 10-WG-A	Window Glaze	Gray Non-Fibrous Non-Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483703 10-WG-B	Window Glaze	Gray Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483704 10-WG-C	Window Glaze	Gray Non-Fibrous Non-Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483705 11-PL-A	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483705 11-PL-A	Skim Coat	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483706 11-PL-B	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483706 11-PL-B	Skim Coat	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483707 11-PL-C	Plaster	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483707 11-PL-C	Skim Coat	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483708 12-WBS-A	Drywall	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483708 12-WBS-A	Tape	White Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483708 12-WBS-A	Mud	White Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-3 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483709 12-WBS-B	Drywall	White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483709 12-WBS-B	Tape	White Fibrous Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483709 12-WBS-B	Mud	White Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-3 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483710 12-WBS-C	Drywall	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483710 12-WBS-C	Tape	White Fibrous Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483710 12-WBS-C	Mud	White Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-3 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483711 13-WBS-A	Drywall	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483711 13-WBS-A	Tape	White Fibrous Homogenous	PLM 20% Cellulose	PLM 80% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483711 13-WBS-A	Mud	White Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-3 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483712 13-WBS-B	Drywall	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483712 13-WBS-B	Tape	White Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483712 13-WBS-B	Mud	White Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-3 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483713 13-WBS-C	Drywall	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483713 13-WBS-C	Tape	White Fibrous Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483713 13-WBS-C	Mud	White Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-3 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483714 14-SC-A	Stack Cement	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483715 14-SC-B	Stack Cement	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483716 14-SC-C	Stack Cement	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483717 15-HS-A	Heat Shield	White Fibrous Homogenous	PLM 2% Cellulose PLM 60% Fiberglass	PLM 38% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483718 15-HS-B	Heat Shield	White Fibrous Homogenous	PLM 1% Cellulose PLM 50% Fiberglass	PLM 49% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483719 15-HS-C	Heat Shield	White Fibrous Homogenous	PLM 1% Cellulose PLM 40% Fiberglass	PLM 59% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483720 16-FS-A	Floor Sheeting	Beige Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483721 16-FS-B	Floor Sheeting	Beige Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483722 16-FS-C	Floor Sheeting	Beige Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483723 17-MLF-A	Multi-layer Floor	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483723 17-MLF-A	Floor Sheeting	Brown Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483724 17-MLF-B	Multi-layer Floor	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483724 17-MLF-B	Floor Sheeting	Brown Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483725 17-MLF-C	Multi-layer Floor	Beige Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483725 17-MLF-C	Floor Sheeting	Brown Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483726 18-MLF-A	Multi-layer Floor	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483726 18-MLF-A	Mastic	Brown Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483727 18-MLF-B	Multi-layer Floor	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483727 18-MLF-B	Mastic	Brown Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483728 18-MLF-C	Multi-layer Floor	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483728 18-MLF-C	Mastic	Brown Non-Fibrous Non-Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-2 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483729 19-FT-A	Floor Tile	Tan Non-Fibrous Non-Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483730 19-FT-B	Floor Tile	Tan Non-Fibrous Non-Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483731 19-FT-C	Floor Tile	Tan Non-Fibrous Non-Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483732 20-BM-A	Brick Mortar	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483733 20-BM-B	Brick Mortar	Black Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483734 20-BM-C	Brick Mortar	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483735 21-BM-A	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483736 21-BM-B	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483737 21-BM-C	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483738 22-BM-A	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483739 22-BM-B	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483740 22-BM-C	Brick Mortar	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483741 23-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483742 23-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483743 23-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483744 24-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483745 24-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483746 24-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483747 25-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483748 25-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483749 25-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483750 26-CC-A	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483751 26-CC-B	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483752 26-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483753 27-BI-A	Blown-in Insulation	Beige Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483754 27-BI-B	Blown-in Insulation	Beige Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Date Received : 04/05/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483755 27-BI-C	Blown-in Insulation	Beige Fibrous Homogenous	PLM 20% Cellulose	PLM 80% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483756 28-RI-A	Rolled-in Insulation	White Fibrous Homogenous	PLM 2% Cellulose PLM 15% Fiberglass	PLM 83% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483757 28-RI-B	Rolled-in Insulation	White Fibrous Homogenous	PLM 1% Cellulose PLM 15% Fiberglass	PLM 84% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483758 28-RI-C	Rolled-in Insulation	White Fibrous Homogenous	PLM 2% Cellulose PLM 20% Fiberglass	PLM 78% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483759 29-RI-A	Rolled-in Insulation	White Fibrous Homogenous	PLM 6% Cellulose PLM 30% Fiberglass	PLM 64% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483760 29-RI-B	Rolled-in Insulation	White Fibrous Homogenous	PLM 5% Cellulose PLM 40% Fiberglass	PLM 55% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

NVLAP LAB CODE 201028-0

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

Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
518 W North St.

ETL Job : 256487
Client Project : 188BS23234
Date Collected : 03/31/2023
Date Received : 04/05/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483761 29-RI-C	Rolled-in Insulation	White Fibrous Homogenous	PLM 5% Cellulose PLM 30% Fiberglass	PLM 65% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483762 30-RI-A	Rolled-in Insulation	Pink Fibrous Homogenous	PLM 2% Cellulose PLM 20% Fiberglass	PLM 78% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483763 30-RI-B	Rolled-in Insulation	Pink Fibrous Homogenous	PLM 2% Cellulose PLM 10% Fiberglass	PLM 88% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483764 30-RI-C	Rolled-in Insulation	Pink Fibrous Homogenous	PLM 2% Cellulose PLM 20% Fiberglass	PLM 78% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483765 31-IC-A	Interior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483766 31-IC-B	Interior Caulk	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483767 31-IC-C	Interior Caulk	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483768 32-IC-A	Interior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483769 32-IC-B	Interior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483770 32-IC-C	Interior Caulk	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483771 33-RI-A	Rolled-in Insulation	Yellow Fibrous Homogenous	PLM 2% Cellulose PLM 10% Fiberglass	PLM 88% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483772 33-RI-B	Rolled-in Insulation	Yellow Fibrous Homogenous	PLM 1% Cellulose PLM 10% Fiberglass	PLM 89% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					

NVLAP LAB CODE 201028-0

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Location :
518 W North St.

ETL Job : 256487
Client Project : 188BS23234
Date Collected : 03/31/2023
Date Received : 04/05/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1483773 33-RI-C	Rolled-in Insulation	Yellow Fibrous Homogenous	PLM 2% Cellulose PLM 10% Fiberglass	PLM 88% Other	PLM None Detected
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483774 34-DW-A	Duct Wrap	Gray Fibrous Homogenous	PLM 1% Cellulose	PLM 49% Other	PLM 50% Chrysotile
Layer-1 Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023					
1483775 34-DW-B		Positive Stop			
Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023 Sample Not Analyzed					
1483776 34-DW-C		Positive Stop			
Analyst: Shelby Fogelsong Date Analyzed : 04/07/2023 Sample Not Analyzed					

Madeline Palmer
Lab Supervisor/Other Signatory

Analyst:
Shelby Fogelsong
Shelby Fogelsong

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).

ENVIRONMENTAL TESTING LABORATORIES, INC
38900 Huron River Drive
Romulus, Michigan 48174
(734) 955-6600
Fax: (734) 992-2261
www.2etl.com

Bulk Asbestos Chain of Custody

ETL Project #: 256487

518 W North St
(LP)

Client: ATC Group Services	Contact: Rob Smith	Project Location/name: ~~740 E Vine Street, Kalamazoo, Michigan 49007 / City of Kalamazoo ACM Survey~~	
Address: 46555 Humboldt Dr. Ste. 100 Novi, MI 48377	Phone: 248-669-5140	Client Project #:	188BS23234
	Fax: 248-669-5147	Date Sampled:	3.31.2023
	E-mail: robert.smith@atcgs.com		

Please Provide Results: x Email ☐ Fax ☐ Verbal ☐ Other _____

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

PLM Instructions (Check all that apply)	
X PLM EPA600/R-93/116, 1993 (Standard method)	X Stop at 1st Positive - Clearly mark Homogenous Group
Point Counting: ☐ 400 Points* ☐ NYSDOH ELAP 198.1, 2002*	
☐ 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
1483675	1-RM-A,B,C 676,677	Roofing material - house asphalt shingle roof	EA-10	1050 SF
678,679	2-TS-A,B,C 680	Transite siding - on exterior walls and pipe under rear porch	EA-1,2,3,4	1,890 SF
681,682	3-VP-A,B,C 683	Vapor paper - under wood siding (under transite siding)	EA-1,2,3,4	1,890 SF
684,685	4-VP-A,B,C 686	Vapor paper - black, under transite siding	EA-1,2,3,4	1,890 SF
687,688	5-VP-A,B,C 689	Vapor paper - black, under transite siding seam	EA-1,2,3,4	630 SF
690,691	6-EC-A,B,C 692	Exterior caulk - grey, on front porch wood siding/trim	EA-1	15 LF
693,694	7-EC-A,B,C 695	Exterior caulk - grey, on transite (patches, seams, roofline)	EA-1,2,3,4	155 LF
696,697	8-EC-A,B,C 698	Exterior caulk - beige, perimeter of basement windows	EA-2,4	35 LF
699,700	9-WG-A,B,C 701	Window glaze - basement windows	EA-2,4	4 windows
702,703	10-WG-A,B,C 704	Window glaze - multi-pane window (rear porch window)	EA-3	1 window

		Date	Time
Relinquished (Name/Organization):	Andrew DeLodder / Atlas Technical Consultants	4.4.2023	12:00 PM
Received (Name/ETL):	[signature]	4.5.23	10:45 am/pm
Sample Login (Name/ETL):	[signature]	4/7/23	2:45 am/pm
Stereoscopical/Sample Analysis (Name/ETL)	[signature]	4/7/23	6:00 am/pm
Results (Name/ETL):	[signature]	4/7/23	6:00 am/pm
QA/QC Review (Name/ETL):	[signature]	4-10-23	9:00 am/pm

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 3% 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

1/2

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Bulk Asbestos
Chain of Custody

ETL Project #: 256487

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
1483705	11-PL-A,B,C	706, 707 Plaster - on lath, in closets of bedrooms	FS-11, 13	150 SF
708, 709	12-WBS-A,B,C	710 Wallboard system - wall	EA-1	150 SF
711, 712	13-WBS-A,B,C	713 Wallboard system - walls/ceiling	FS-4,5,7,8,9,10,11,12,13,14	4,270 SF
714, 715	14-SC-A,B,C	716 Stack cement - on stack	FS-2	5 SF
717, 718	15-HS-A,B,C	719 Heat shield - light fixture	FS-4	1 SF
720, 721	16-FS-A,B,C	722 Floor sheeting - kitchen	FS-7	135 SF
723, 724	17-MLF-A,B,C	725 Multi-layer floor - rear porch	FS-16	60 SF
726, 727	18-MLF-A,B,C	728 Multi-layer floor - dinning room / living room	FS-9,10	340 SF
729, 730	19-FT-A,B,C	731 Floor tile - stack of 12" blue and beige with rectangle pattern stick-on	FS-14	1 stack (50 tiles)
732, 733	20-BM-A,B,C	734 Brick mortar - red brick debris	EA-1	40 SF
735, 736	21-BM-A,B,C	737 Brick mortar - exterior foundation, concrete block	EA-1,2,3,4	810 SF
738, 739	22-BM-A,B,C	740 Brick mortar - Stack	FS-2	150 SF
741, 742	23-CC-A,B,C	743 Concrete chip - exterior	EA-1	30 SF
744, 745	24-CC-A,B,C	746 Concrete chip - basement wall skim coat	FS-1	810 SF
747, 748	25-CC-A,B,C	749 Concrete chip - basement floor	FS-1	980 SF
750, 751	26-CC-A,B,C	752 Concrete chip - basement walls (under skim coat)	FS-1	810 SF
753, 754	27-BI-A,B,C	755 Blown-in insulation -cellulose, attic and attic voids	FS-3, 15	800 SF
756, 757	28-RI-A,B,C	758 Rolled-in insulation - white, packed in rat-wall, no backing paper	FS-1	80 SF
759, 760	29-RI-A,B,C	761 Rolled-in insulation - white with black backing paper, attic voids	FS-3, 15	120 SF
762, 763	30-RI-A,B,C	764 Rolled-in insulation - red with brown backing paper - in exterior walls (1st and 2nd fl)	EA-1,2,3,4	1,890 SF
765, 766	31-IC-A,B,C	767 Interior caulk - grey, seams of HVAC ducts	FS-1	5 SF
768, 769	32-IC-A,B,C	770 Interior caulk - White, on interior wood trim	FS-4,5,6,7,8,9,10,11,13,14	175 LF
771, 772	33-RI-A,B,C	773 Rolled-in insulation - hot water heater tank insulation, yellow with white vinyl wrap	FS-1	60 SF
774, 775	34-DW-A,B,C	776 Duct wrap, over duct in attic ductwork, directly to the right after attic void door, may be located on risers in walls	FS-15	10 SF
	NA	NA	NA	NA
	NA	NA	NA	NA
	NA	NA	NA	NA

2/2

ATTACHMENT B

PHOTOGRAPHS

Street view of the house located at 518 N West Street (EA-1) / (EA-5)

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

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

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

View of FS-1

View of FS-2

View of FS-3

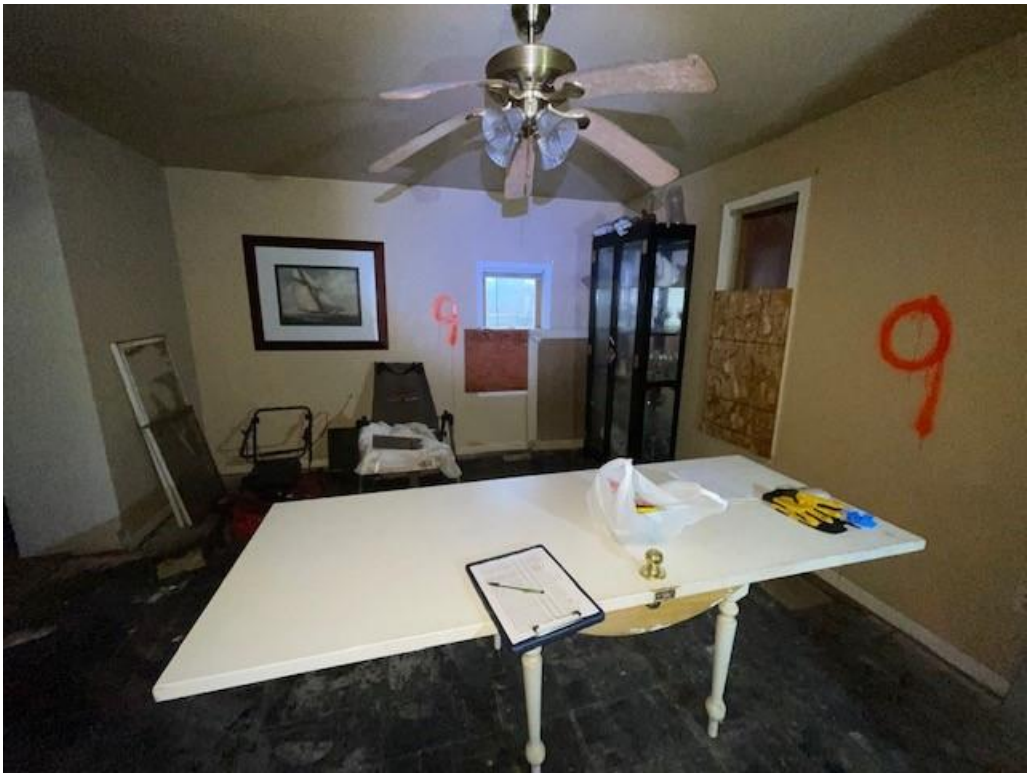
View of FS-4

View of FS-5

View of FS-6

View of FS-7

View of FS -8



View of FS-9

View of FS-10

View of FS-11

View of FS-12

View of FS-13

View of FS-14

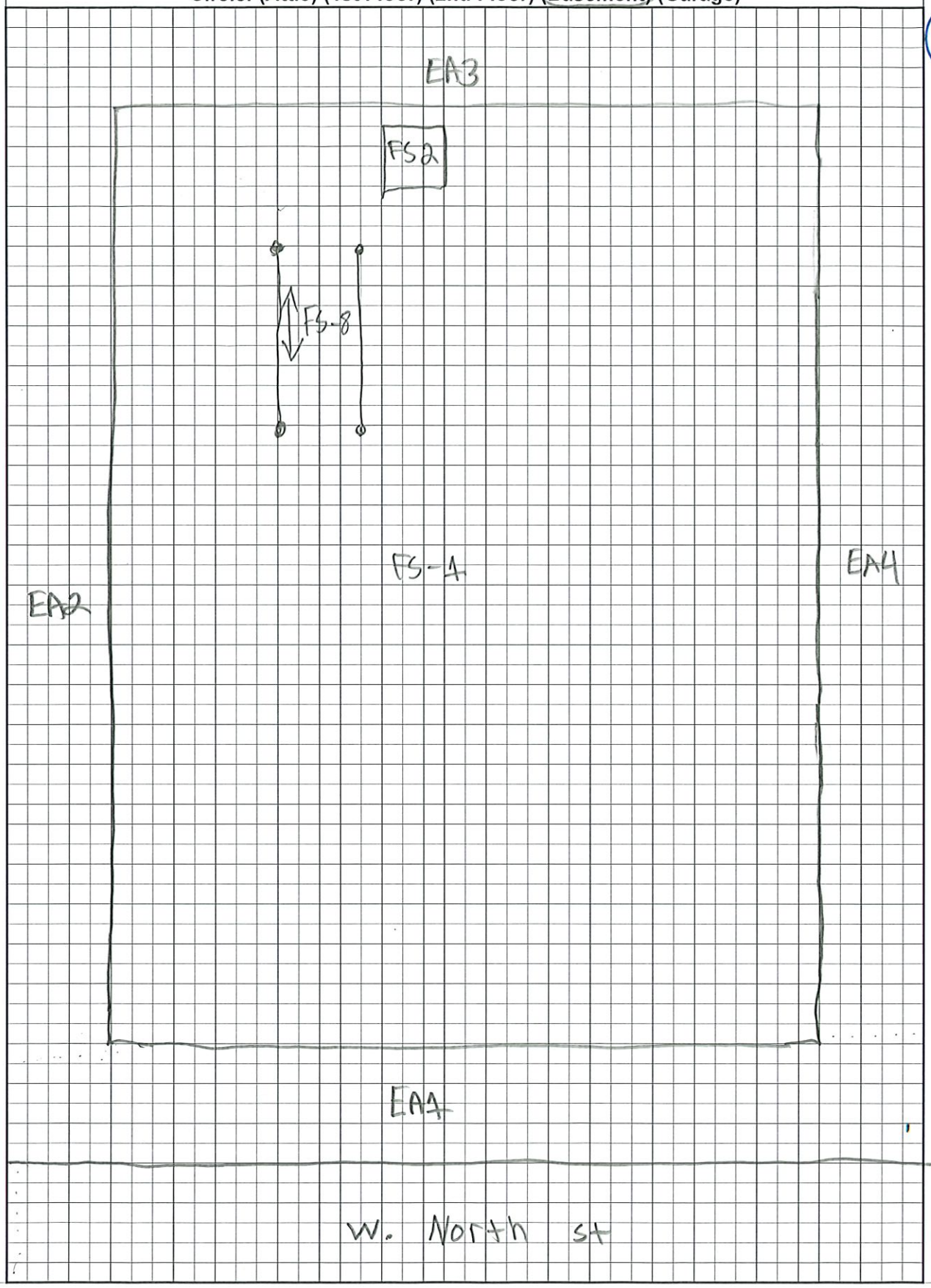
View of FS-15

View of FS-16

ATTACHMENT C

FUNCTIONAL SPACE MAPS

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



EA3
1200f

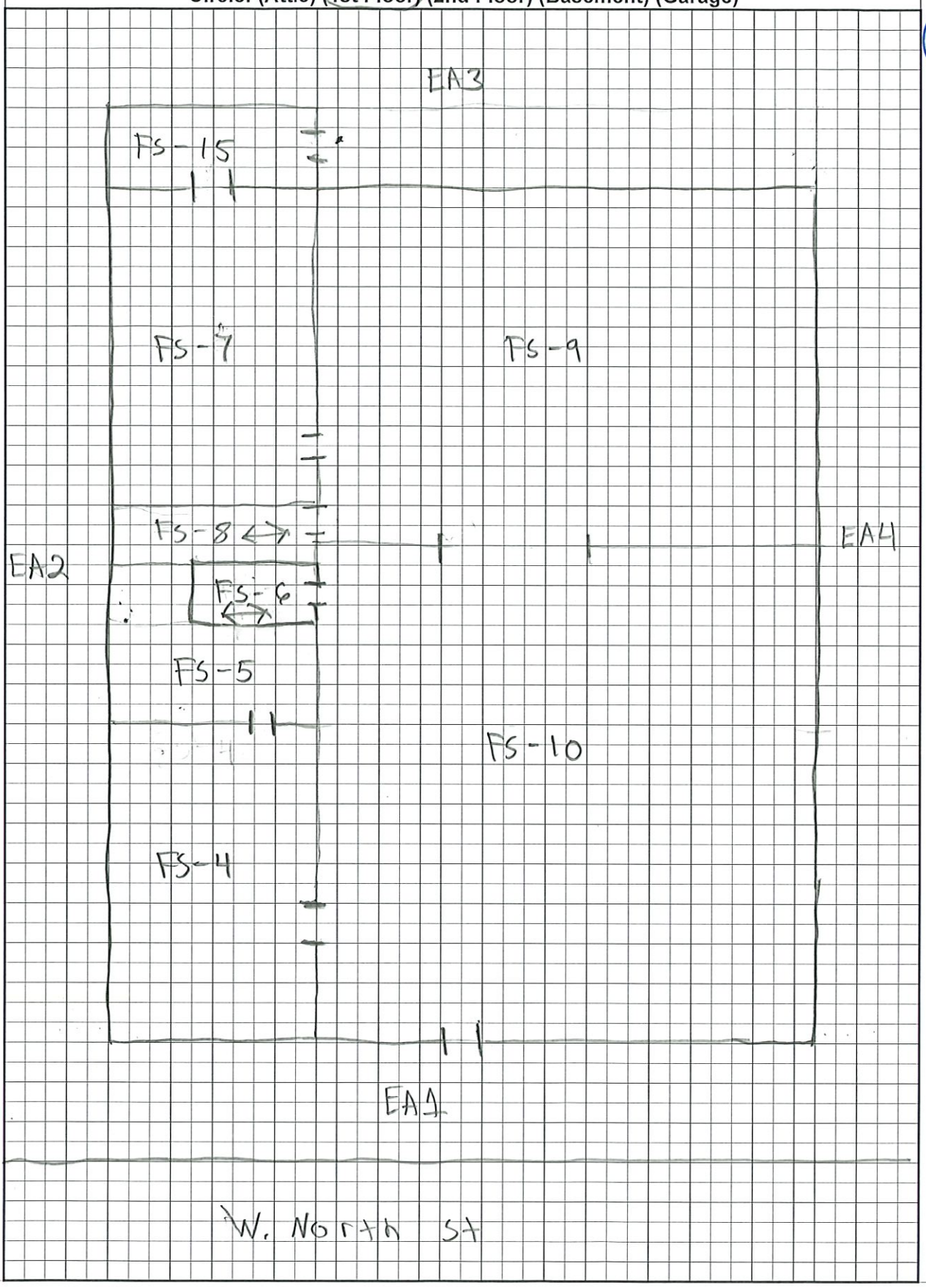
37

2a

Street Address: 518 W North Street, Kalamazoo, Michigan

Inacessible

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



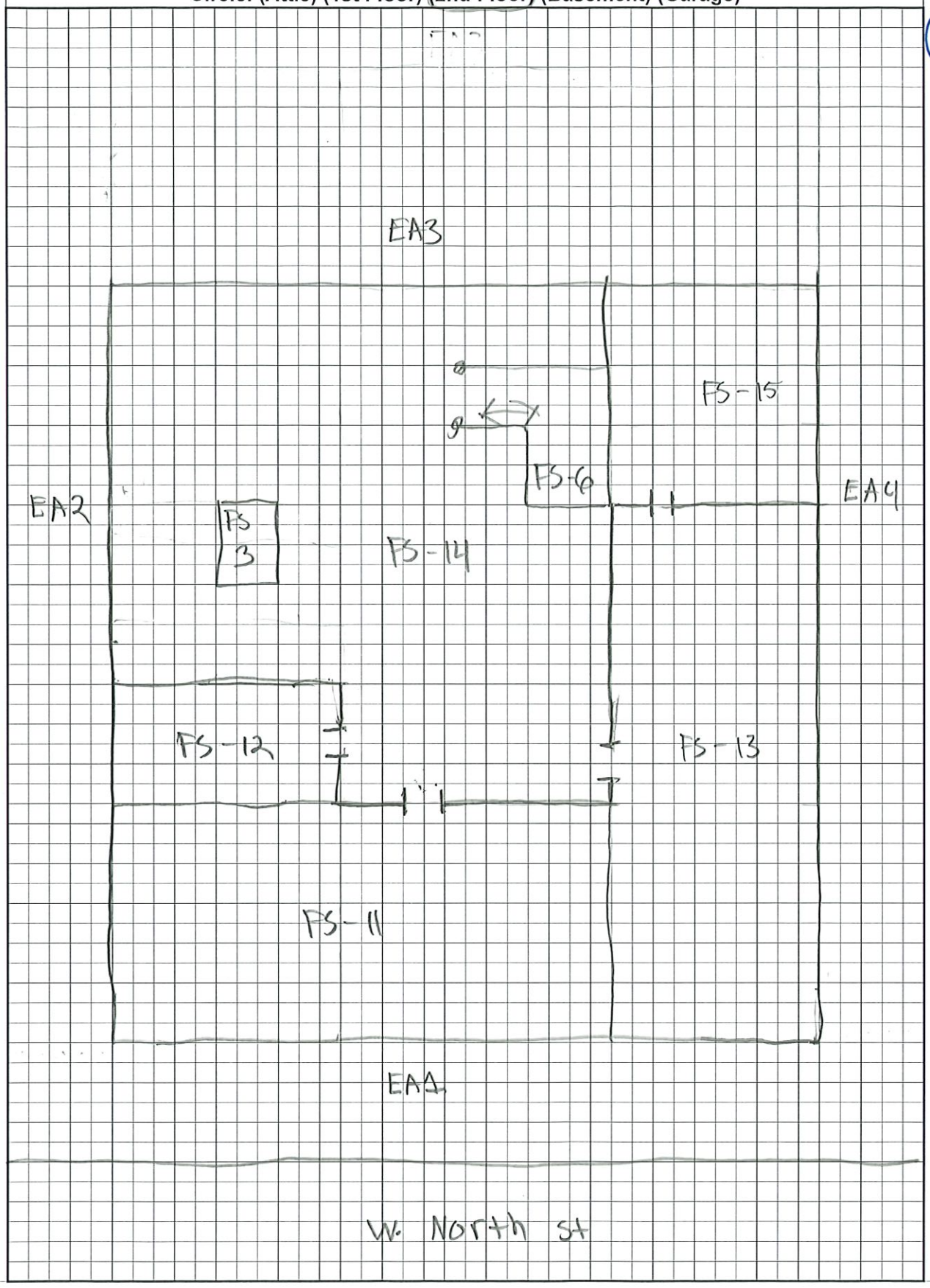
37

26

Street Address: 518 W North Street, Kalamazoo, Michigan

Inacessible

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



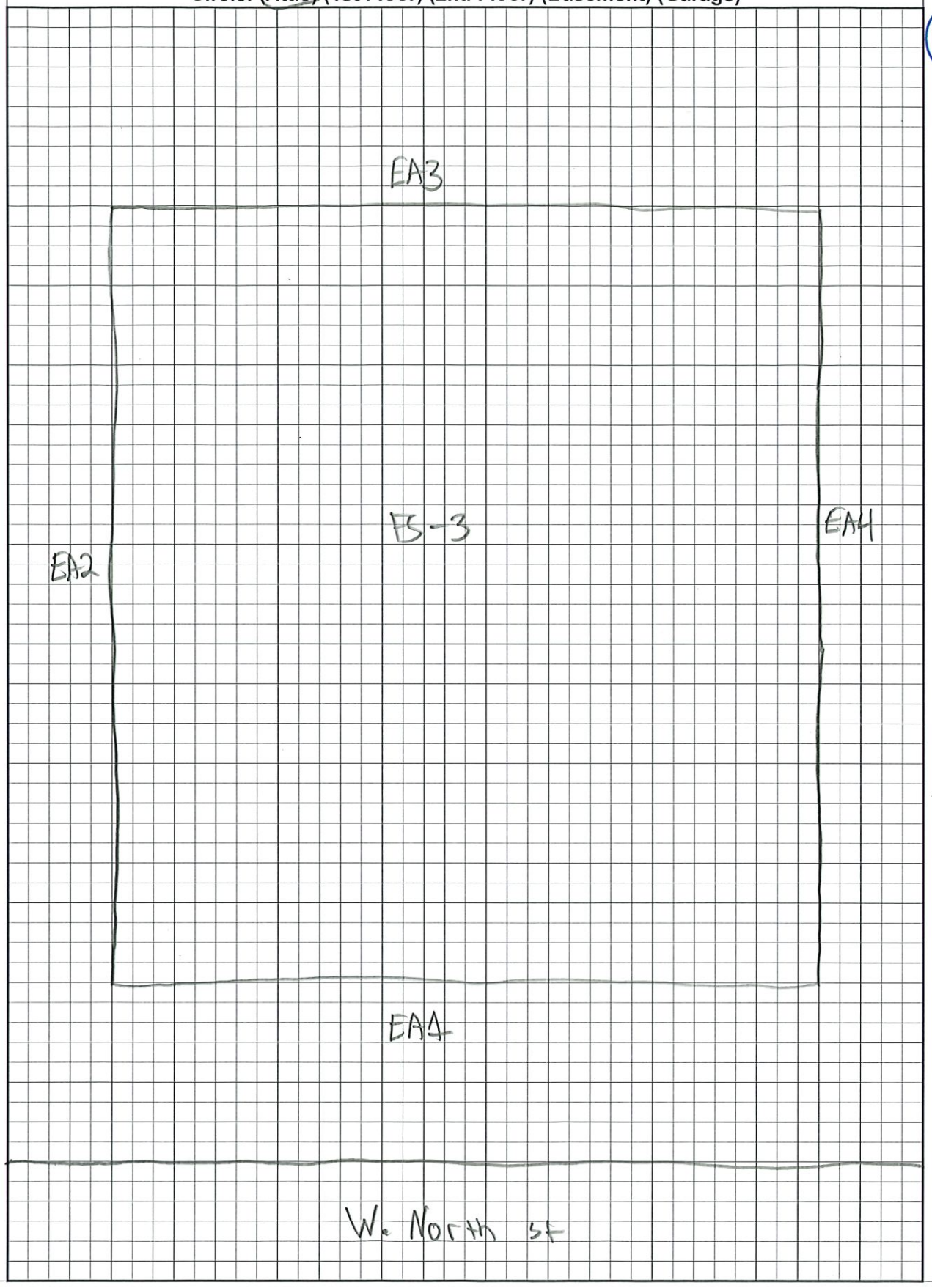
26

27

Street Address: 518 W North Street, Kalamazoo, Michigan

Inacessible

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



EA5
Roof

Street Address: 518 W North Street, Kalamazoo, Michigan

Inacessible