

October 6, 2021

Adan Solis
Renovation Systems

Techtron Engineering
2040 N Ferry St.
Anoka, MN 55303
Phone 763.712.9502
Fax 763.712.9504

Re: Bulk sample asbestos testing results
200 Winthrop Street S
Saint Paul, MN 55119
Techtron No. 18216

www.techtronengineering.com

Dear Adan Solis,

Techtron Engineering, Inc. was retained to perform bulk asbestos sampling and analysis at the referenced property.

Site work was performed by Shawn Kearney, a Minnesota licensed Asbestos Inspector (See Appendix I), on October 5, 2021.

Scope of Study

Sampling was limited to materials in six units and adjacent common hallways which may be disturbed during upcoming remediation.

Bulk Asbestos Sampling

Bulk samples were collected by wetting the material in question with amended water. A small portion of this material was then removed and placed directly into a sealed container.

Bulk Asbestos Analysis

Techtron Engineering performed analysis of these samples, in accordance to EPA methodology. This method detects asbestos in volumetric concentrations of 1% or greater. The bulk samples were checked for the following asbestiform minerals: chrysotile, amosite, crocidolite, anthophyllite, and tremolite-actinolite.

Bulk Sample Results

Sixteen (16) samples were taken from the apartment and analyzed for asbestos. No asbestos was identified in the sheetrock, joint compound, or ceiling texture at the property.

Analytical results are in Appendix II.

Conclusions/Recommendations

No asbestos was identified in the tested materials.

There is no guarantee, implied or otherwise, that all asbestos containing materials have been identified. If suspect materials are encountered during renovation and/or demolition that have not been addressed in this report, the materials must not be disturbed until they are positively identified.

Closing

Please call Mike Bodnar at (763) 712-9502 for further assistance.

Prepared by:



Shawn Kearney # AII3827

Reviewed by:



Michael Bodnar, PE, CIH

--APPENDIX I--

**LICENSES &
CERTIFICATIONS**



m ASBESTOS
DEPARTMENT OF HEALTH INSPECTOR

Certified by:
State of Minnesota
Department of Health

Expires: 12/08/2021

Shawn Kearney
8207 Virginia Circle S
St Louis Park, MN 55426

[Signature]
Director, Env. Health Div.

No. A113827

Issued: 02/02/2021

--APPENDIX II--

**BULK SAMPLE
LABORATORY RESULTS**

October 6, 2021

Attn: Shawn Kearney
Techtron Engineering

2040 N Ferry St.
Anoka, MN 55303
Phone 763.712.9502
www.techtronengineering.com

Project Location: 200 Winthrop Street S, Saint Paul, MN

Client Project #: 18216
Techtron Project #: 18231

Sampled by: Shawn Kearney
Date Sampled: 10/5/2021
Date Samples Received Laboratory: 10/5/2021

Analyzed by: Ginny Hemmila
Date Analyzed: 10/6/2021
Number of Samples Analyzed: 16

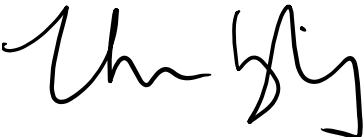
Test Report: Asbestos Bulk Materials Identification by PLM

Following are the results of material samples obtained for asbestos identification analysis. Samples were observed at 42X magnification and suspect fibers were isolated from the bulk samples for observation under polarized light microscopy. The fibers were then evaluated under polarized light microscopy for extinction angle, sign of elongation, and morphology. Dispersion staining was performed using Cargille dispersion oils to observe color changes of fibers at various orientations.

Analysis was performed according to EPA method 600/R-93/116. This method has a reporting limit to <1% asbestos, in volumetric concentrations. Bulk samples were checked for the following types of asbestiform minerals: chrysotile, amosite, crocidolite, anthophyllite, and tremolite-actinolite.

Laboratory is ISO/IEC 17025:2017 accredited.

All sample details and results are listed in the table below.



Theresa Erpelding
Laboratory Manager

Client Sample #	Lab Sample #	Sample Location	Material Description	Layers	Results
1A	18231-1	Unit 247, Living Room, Wall	White Joint Compound		NAFD
1B	18231-2	Unit 347, Living Room, Ceiling	White Joint Compound		NAFD
1C	18231-3	Unit 447, Living Room, Wall	White Joint Compound		NAFD
1D	18231-4	Unit 447, Kitchen, Wall	White Joint Compound		NAFD
1E	18231-5	2nd Floor, Common Hallway, Hall	White Joint Compound		NAFD
2A	18231-6	Unit 247, Living Room, Wall	White Joint Compound/White Sheetrock (Composite Sample)		NAFD
2B	18231-7	Unit 347, Living Room, Ceiling	White Joint Compound/White Sheetrock (Composite Sample)		NAFD
2C	18231-8	Unit 447, Living Room, Wall	White Joint Compound/White Sheetrock (Composite Sample)		NAFD
2D	18231-9	Unit 447, Kitchen, Wall	White Joint Compound/White Sheetrock (Composite Sample)		NAFD
2E	18231-10	2nd Floor, Common Hallway, Wall	White Joint Compound/White Sheetrock (Composite Sample)		NAFD
3	18231-11	3rd Floor, Common Hallway, Hall	White Sheetrock		NAFD
4A	18231-12	Unit 247, Living Room, Ceiling	White Popcorn Ceiling Texture		NAFD
4B	18231-13	Unit 347, Living Room, Ceiling	White Popcorn Ceiling Texture		NAFD
4C	18231-14	Unit 447, Living Room, Ceiling	White Popcorn Ceiling Texture		NAFD

NAFD = No Asbestos Fibers Detected
 NAPS = Not Analyzed Positive Stop

*No asbestos was detected. However, due to the uncertainty with existing testing techniques for vermiculite insulation, the Environmental Protection Agency and Agency for Toxic Substances and Disease Registry strongly recommend that all vermiculite insulation be assumed to contain asbestos. Therefore, Techtron Engineering recommends that this material be assumed to contain asbestos in quantities less than one percent.

Reporting Limit: <1%. Some samples reported as NAFD may contain asbestos fibers in quantities below 1%. Detection limits are dependent upon the sample size, matrix, and any interferences that may be present in the sample. Point counting is recommended for samples that require more precise quantification when samples contain low volumes of asbestos fibers (i.e. 1-5%). Uncertainty data available in EPA 600 R-93 116. Results are based on field sampling information provided by the client and are only valid for samples tested. Samples are stored for 30 days unless other arrangements are made by the client. Samples received in good condition unless otherwise noted. This report shall not be reproduced except in full, without the written approval of Techtron Engineering. AIHA-LAP, LLC Lab #101106. PJLA ISO 17025 Accreditation No. 108481.

Techtron Project #: 18231

Project Location: 200 Winthrop Street S, Saint Paul, MN

Client Sample #	Lab Sample #	Sample Location	Material Description	Layers	Results
4D	18231-15	2nd Floor, Common Hallway, Ceiling	White Popcorn Ceiling Texture		NAFD
4E	18231-16	3rd Floor, Common Hallway, Ceiling	White Popcorn Ceiling Texture		NAFD

End of Report

NAFD = No Asbestos Fibers Detected

NAPS = Not Analyzed Positive Stop

*No asbestos was detected. However, due to the uncertainty with existing testing techniques for vermiculite insulation, the Environmental Protection Agency and Agency for Toxic Substances and Disease Registry strongly recommend that all vermiculite insulation be assumed to contain asbestos. Therefore, Techtron Engineering recommends that this material be assumed to contain asbestos in quantities less than one percent.

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