



FORMER STILES BUILDING, BASSANO, AB ASBESTOS BUILDING ASSESSMENT

Project# SQ1MH21048
APRIL 21, 2021

Updated: December 23, 2021

PREPARED FOR:

Craig Ambler
MPE Engineering
Lethbridge, AB

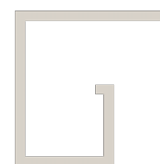
PREPARED BY:

Mike Anderson
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629 UPP 3rd Street SE
Medicine Hat, AB



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1.0 Introduction

Squareone Consulting Ltd. (Squareone) was authorized by Craig Ambler of MPE Engineering to conduct a Hazardous Materials Assessment on Former Stiles Building, Bassano, Alberta. The assessment was conducted from on March 26, 2021 by Squareone's Mike Anderson.

The intent of this assessment is to identify both building materials as well as general products that are considered to be hazardous to humans and/or the environment, then produce all findings in a comprehensive and user-friendly report. This will be achieved by not only displaying results and findings in tables but also using colour coded floorplans, charts, and links within the report.

Please note that this is a working document continuously being updated whenever a change in hazardous materials identified is made. All updates will be made in a RED font.

Last Updated: December 23, 2021

2.0 Scope of Work

The scope of work involved in the assessment conducted by Squareone Consulting consist of sampling and/or identifying the following:

- o Asbestos containing materials
- o Lead based materials
- o Mercury containing materials
- o Polychlorinated biphenyls (PCB's)
- o Radioactive components
- o Ozone depleting substances
- o Urea formaldehyde
- o Visible mould and water damage
- o Fecal or microbial

Once the field assessment had been completed, Squareone will compile all information into a comprehensive report. This report will include tables, graphs, photographs, and colour coded floorplans.

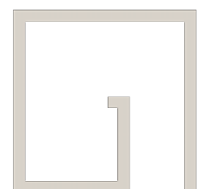
3.0 Methodology

For the completion of this assessment, sampling and/or identifying hazardous materials throughout the building was conducted following general standards outlined by the Alberta Occupational Health and Safety Code, Alberta Asbestos Abatement Manual – 2019 and National Institute for Occupational Safety and Health (NIOSH). This was a non-intrusive assessment so areas with little to no access were not inspected. Due do the different nature of each material assessed, below is an outline for all material's specific methodologies.

3.1 Asbestos Containing Materials

Suspected asbestos containing materials were sampled and sent for laboratory analysis. Once the sample was taken, it was documented with the following information:

- o Sample#
- o Specific identifying location
- o Specific material type



- o Material distribution throughout building

All asbestos samples were taken following guidelines outlined in the Alberta Asbestos Abatement Manual – 2019 Section 5.6.4.

All bulk asbestos samples are analysed at EMC Scientific Inc. using Polarized Light Microscopy (PLM) and dispersion staining techniques. All analytical procedures are in accordance with EPA 600/R-93/116 method.

3.2 Lead Based Materials

Materials suspected to contain lead were identified or sampled and sent for laboratory analysis. All lead bulk and paint samples were sent to IATL International Asbestos Testing Laboratories for analysis. All samples were analysed using the ASTM D3335-85A “Standard Method to Test for Low Concentration of lead in Paint by Atomic Absorption Spectrophotometry” method. All samples were then compared to standards provided by Work Safe Alberta of 0.009%.

3.3 Mercury Containing Materials

A visual inspection was conducted on all thermostats, light bulbs and tubes and pressure-sensing products to determine the presence of mercury. If found, the product was documented and photographed.

3.4 Polychlorinated Biphenyls (PCB's)

PCB's are most common in florescent light ballasts. Newer T-5 tubes will not work with ballasts containing PCB's, only fixtures with T-12 - T-8 lighting tubes need to have the ballasts checked. In accordance to the Alberta Occupational Health and Safety Act, ballasts are inaccessible in the fixture is not de-energized and tagged out. For this reason, only a visual inspection was conducted on all lighting fixtures.

3.5 Radioactive Components

A visual inspection was conducted throughout the building to determine the presence of radioactive products. If found, the product was documented and photographed.

3.6 Ozone Depleting Substances

A visual inspection was conducted throughout the building for products and systems that usually containing Ozone Depleting Substances. If found, the product was documented and photographed.

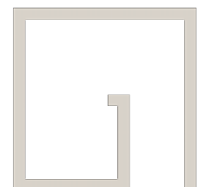
3.7 Urea Formaldehyde

A visual inspection was conducted throughout the building to determine the presence of Urea Formaldehyde. If found, the product was documented and photographed.

3.8 Visible Mould and Water Damage

A visual inspection was conducted throughout the building to determine the presence of visible mould and water damage suggesting possible mould growth. If found, the product was documented and photographed. If mould growth was suspected, a swab sample was taken to determine any mould growth.

All swab samples were analysed using the method: Direct Microscopy Examination based on “CBS Laboratory Manual Series – Food and Indoor Fungi (2010)”.



3.9 Fecal or microbial

A visual inspection was conducted throughout the building to determine the presence of Fecal or Microbial Contamination. If found, the product was documented and photographed.

4.0 Results and Discussion

All results from any laboratory analysis will be shown using a table to display all information pertaining to that sampling.

All Laboratory Certificate of Analysis will be displayed in the corresponding Appendix as stated at the top of the Table.

4.1 Asbestos Containing Materials

Sample #	Location	Description	Asbestos Type & %
A1	Basement	Elbow Insulation	Chrysotile—60
A2	Basement	Pipe Run Insulation	Chrysotile—70
A3	Basement	Wall Plaster	N/A
A4	Front Room Interior Wall	Wall Plaster	N/A
A5	Back Exterior Wall	Wall Plaster	N/A
A6	2 nd Floor	Wall Plaster	N/A
A7	Bathroom 2 nd Floor	Wall Plaster	N/A
A8	2 nd Floor; Front Exterior Wall	Wall Plaster	N/A
A1 (SQ1MH21303)	Back Entrance; Top Layer	Vinyl Flooring	Chrysotile—50
A2 (SQ1MH21303)	Back Entrance; 2 nd layer	Floor Tile	Chrysotile—2
		Black Mastic	N/A

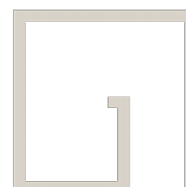
Note:

☐ highlight indicates sample came back positive for asbestos content

N/A indicated that the sample was negative, so the information was not applicable

Blank sample number Indicates additional layering of above sample

Sample# Indicates complete removal of material



Sample #	Location	Description	Asbestos Type & %
A3 (SQIMH21303)	Main Floor Prep Room	Vinyl Flooring	Chrysotile - 50
A4 (SQIMH21303)	Top of Mezzanine	Vinyl Flooring	N/A
		Brown Mastic	N/A
A5 (SQIMH21303)	2 nd Floor Landing	Vinyl Flooring	N/A
		Grey Vinyl Backing	N/A
		Brown Mastic	N/A
A6 (SQIMH21303)	2 nd Floor Addition	Vinyl Flooring	N/A
		Colourless Mastic	N/A
A7 (SQIMH21303)	2 nd Floor Hallway; Top Layer	Vinyl Flooring	N/A
		Yellow Mastic	N/A
A8 (SQIMH21303)	2 nd Floor Hallway; 2 nd Layer	Green Floor Tile	Chrysotile - 1
		Brown Mastic	N/A
A9 (SQIMH21303)	2 nd Floor Back Room	Red Vinyl Flooring	N/A
		Black Backing	N/A
		Brown Backing	N/A

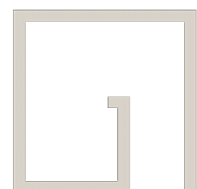
Note:

☐ Highlight indicates sample came back positive for asbestos content

N/A indicated that the sample was negative, so the information was not applicable

Blank sample number Indicates additional layering of above sample

Sample# Indicates complete removal of material



Sample #	Location	Description	Asbestos Type & %
A10 (SQIMH21303)	2 nd Floor; Top of Front Stairs	Vinyl Flooring	N/A
		Brown Mastic	N/A
A11 (SQIMH21303)	2 nd Floor; Bathroom	Vinyl Flooring	Chrysotile—50
		Grey Mastic	N/A
A12 (SQIMH21303)	Main Floor Bathroom	Joint Compound	N/A
A13 (SQIMH21303)	2 nd Floor NW Bedroom; East Wall	Joint Compound	N/A
A14 (SQIMH21303)	Basement Plumbing	Pipe Joint Packing	N/A

Note:

☐ highlight indicates sample came back positive for asbestos content

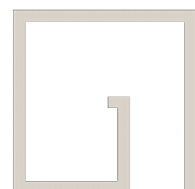
N/A indicated that the sample was negative, so the information was not applicable

Blank sample number Indicates additional layering of above sample

Sample# Indicates complete removal of material

4.2 Lead Based Materials

A total of three (3) paint samples were collected for analysis from throughout the building. Results from the laboratory analysis show that all three (3) of the samples returned with a concentration in excess of 0.009% (90 mg/kg) by weight. Meaning that all three (3) samples are to be considered lead containing as stated by Work Safe Alberta. Due to the toxicity of lead and the chance of lead release during renovations, Squareone Consulting suggests that all precautions be taken during any removal or renovations.



The following table is a representation of the sampling results. For lab results see the attached document in Appendix II.

Sample #	Location	Description	Concentration (% by weight)
L1	Main Floor; Tin Roof	White Paint	0.513
L2	2 nd Floor; Ceiling	White Paint	0.0171
L3	2 nd Floor; Bathroom	Blue Paint	0.25

Notes:

☐ highlight indicates sample came back higher than the 0.5%

All samples are represented in lead by weight %.

4.3 Mercury Containing Materials

During the building assessment mercury containing lighting tubes were found.

- Approximately 25 fluorescent lighting tubes were counted throughout the building.



Mercury Containing Fluorescent lighting tubes

4.4 Polychlorinated Biphenyls (PCB's)

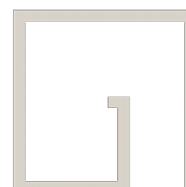
During the assessment, approximately ~~six (6)~~ fluorescent lighting fixtures were observed. All fixtures contain fluorescent T-12 lighting tubes which work with ballasts that contain PCB's.

4.5 Radioactive Components

During the assessment no products are considered to contain radioactive components.

4.6 Ozone Depleting Substances

During the assessment no products are considered to contain ozone depleting substances.



4.7 Urea Formaldehyde

During the assessment no products are considered to contain urea formaldehyde.

4.8 Visible Mould and Water Damage

During the assessment visible water damage was observed and noted throughout the building. No visible mould was observed but is suspected.

- o The east doorway of the street sweeper garage



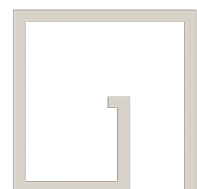
4.9 Fecal or microbial

Remediation Complete

During the assessment large amounts of pigeon fecal contamination was observed. Approximately 30 dead pigeons were also observed throughout the building.



Remediation: Throughout September – November 2021 the town of Bassano acquired the remediation services of Remediclean to remove and decontaminate the entire building of dead pigeons and pigeon waste.





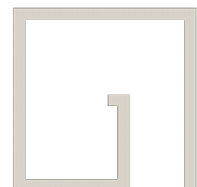
5.0 Conclusions

Based on all observations, documentation and laboratory analysis, Squareone Consulting has collected enough information to make the following conclusions:

5.1 Asbestos Containing Materials

Results show that multiple samples returned positive for asbestos content. Due to the friable nature of the asbestos containing materials and chance that the asbestos fibres may become air born. Squareone Consulting suggests that all appropriate measures be taken to limit the amount of disturbance to the asbestos containing materials; the appropriate measures can be found in the Alberta Abatement Manual. Below is a list of all asbestos containing materials identified:

- Elbow Insulation/Basement (SQIMH21303)
- Pipe Run Insulation/Basement (SQIMH21303)
- Vinyl Flooring /Back Entrance, Prep Room, 2nd Floor Bathroom (SQIMH21303)
- Floor Tile/Throughout Main Floor, 2nd Floor Hallway (SQIMH21303)



5.2 Lead Containing Materials

Paint with lead levels exceeding 0.009% by weight is considered to be “lead containing” by Safety Alberta.

Alberta Occupational Health and Safety does not regulate the concentration of lead in paint, but they do have an 8-hour Occupational Exposure Limit of 0.1 ppm. Below is a list of all paint samples that returned greater than 0.009%. If any of the materials below will be altered either during renovations or demolition, all precautions should be taken to limit the amount of lead release and to ensure air levels never exceed the Occupational Exposure Limit.

- ~~○ White Paint – Tin Roof~~
- ~~○ White Paint – 2nd Floor Ceiling~~
- Blue Paint – 2nd Floor Bathroom

5.3 Mercury Containing Materials

Fluorescent lighting tubes and thermostats that were identified during the assessment should be disposed of in accordance to the Waste Control Regulations under the Alberta Environmental Protection and Enhancement Act.

All lighting tubes and thermostats have been removed and disposed.

5.4 Polychlorinated Biphenyls (PCB's)

Fluorescent lighting may contain PCB containing ballasts. Any disposal should be in accordance to the Waste Control Regulations under the Alberta Environmental Protection and Enhancement Act.

All PCB ballasts have been removed and disposed.

5.5 Radioactive Components

At this moment there are no concerns for radioactive components.

5.6 Ozone Depleting Substances

At this moment there are no concerns for Ozone depleting substances.

5.7 Urea Formaldehyde

At this moment there is no concern for urea formaldehyde.

5.8 Visible Mould and Water Damage

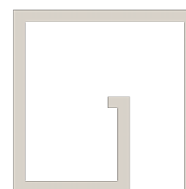
Visible water damage is a clear indication that there could be mould present. All areas where water damage was observed was then inspected closer for possible mould growth. If suspected mould growth is present, sampling can be used for identification.

All water damaged materials have been removed and disposed of. Sqrareone can not comment on the water tightness of the building.

5.9 Fecal or Microbial

Vast quantities of pigeon feces and deceased pigeons are present throughout the building. Both pigeon feces and deceased pigeons are suspected to contain multiple types of diseases and pathogens. Extreme caution should be taken when disturbing and/or removing either. Detailed removal and decontamination procedures should be put in place before dealing with pigeon feces or deceased pigeons.

All dead pigeon and pigeon waste has been removed and disposed of. All areas of the building have been disinfected and encapsulated with a fine aerosol glue material.



6.0 Closure

Squareone Consulting Ltd produced this assessment report for the sole purposes of MPE Engineering. All use of this report must be made with the acknowledgment of MPE Engineering. It is a statement that the presence of all hazardous materials as outlined in the report and as observed on the date this survey was conducted. The conclusions and recommendations contained in this assessment report are based upon professional opinion about the subject matter. These opinions are in accordance with accepted hygiene assessment standards and practices applicable to these locations and are subject to the following inherent limitations:

The data and findings in this assessment report are valid as of the date of the investigation. The passage of time, manifestation of latent conditions may warrant further exploration at the properties, analysis of data, and re-evaluation of the findings, observations, and conclusions expressed in this report.

The data reported and the findings, observations and conclusions expressed in this report are limited by the Scope of Work. The Scope of Work was defined by but not limited to: the requests of the client, the time and budgetary constraints, and availability of access to the site.

Because of the limitations stated above, the findings, observations and conclusions expressed by Squareone Consulting Ltd. in this report are not, and should not, be considered an opinion concerning compliance of any past or present owner or operator of the site with any federal, provincial or local laws or regulations.

No warranty or guarantee, whether expressed or implied, is made with respect to the data or the report findings, observations, and conclusions, which are based solely upon site conditions in existence at the time of investigation.

If you have any questions, comments, or are in need of further assistance please contact me directly.

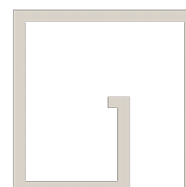
Sincerely,



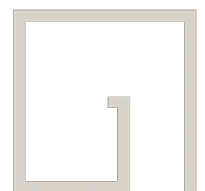
Mike Anderson
President & CEO
Squareone Consulting Ltd.

Appendices:

Appendix I	Sample Photographs
Appendix II	Laboratory Results
Appendix III	Sample/Analysis Floor Plan



Appendix I



A1- Elbow Insulations/Basement



A2- Pipe Insulation/Basement



A3- Wall Plaster/ Basement



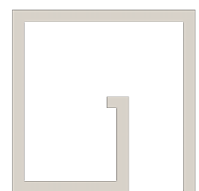
A4- Wall Plaster/ Front Room Interior Wall



Sample A5- Wall Plaster/ Back Exterior Wall



Sample A6- Wall Plaster/ 2nd Floor



A7- Wall Plaster/ Bathroom 2nd Floor



A8- Wall plaster 2nd Floor; Front Exterior Wall



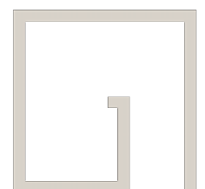
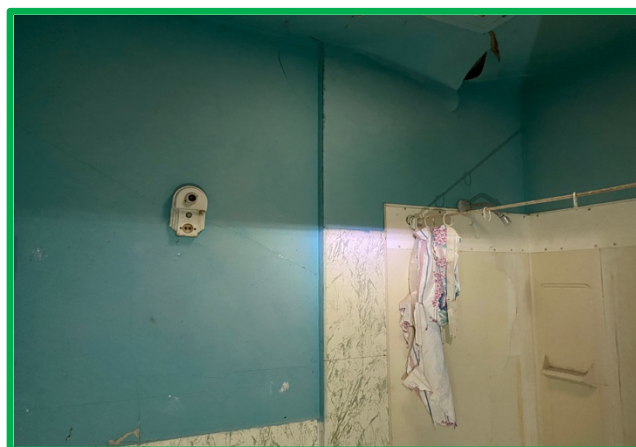
L1- White Paint / Bathroom 2nd Floor



A8- Wall plaster 2nd Floor; Front Exterior Wall



A7- Wall Plaster/ Bathroom 2nd Floor



A1 Vinyl Flooring/Back Entrance; Top Layer



A2 Floor Tile/Back Entrance; 2nd Layer



A3- Vinyl Flooring/Main Floor Prep Area



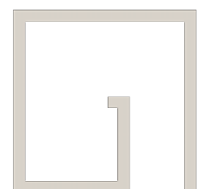
A4- Vinyl Flooring/Top of Mezzanine



Sample A5- Vinyl Flooring/2nd Floor Landing



Sample A6- Floor Tile/Addition



A7- Vinyl Flooring/2nd Floor Hallway; Top Layer



~~A8- Floor Tile/2nd Floor Hallway; 2nd Layer~~



A9- Vinyl Flooring/Back Bedroom



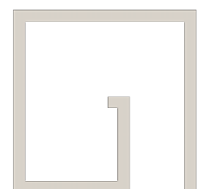
A10 – Vinyl Flooring/2nd Floor; Top of Front Stairs



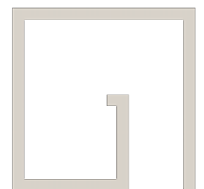
Sample A11- Vinyl Flooring/2nd Floor Bathroom



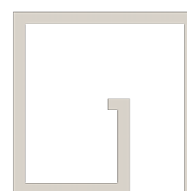
Sample A12- Joint Compound/Main Bathroom



Sample A13 – Joint Compound/2nd Floor NW Bedroom A14- Pipe Joint Packing/Basement Plumbing



Appendix II



Laboratory Analysis Report

To:

Mike Anderson
Squareone Consulting
629 UPP 3rd Street South East
Medicine Hat, Alberta
T1A 0H4

EMC LAB REPORT NUMBER: A67939

Job/Project Name:

Analysis Method: Polarized Light Microscopy – EPA 600

Date Received: Apr 13/21

Date Analyzed: Apr 13/21

Analyst: Chengming Li, *Analyst*

Reviewed By: Malgorzata Sybydlo, *Laboratory Manager*

Job No: SQ1MH21

Number of Samples: 8

Date Reported: Apr 13/21

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
A1	A67939-1	Elbow insulation / basement	Grey, parging cement	Chrysotile	60		40
A2	A67939-2	Pipe insulation / basement	Grey, paper	Chrysotile	70	20	10
A3	A67939-3	Wall plaster / basement stairs	Grey, plaster	ND			100
A4	A67939-4	Wall plaster / front rm; interior wall	Grey, plaster	ND			100
A5	A67939-5	Wall plaster / back exterior wall	Grey, plaster	ND			100
A6	A67939-6	Wall plaster / 2 nd floor	Grey, plaster	ND			100
A7	A67939-7	Wall plaster / bathroom; 2 nd floor	Grey, plaster	ND			100
A8	A67939-8	Wall plaster / 2 nd floor; front exterior wall	Grey, plaster	ND			100

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The limit of quantification (LOQ) is 1%.

C.O.C.: ---

REPORT No. B21-10741

Report To:

EMC Scientific Inc.

5800 Ambler Dr. #100,
Mississauga ON L4W 4J4 Canada

Attention: Alister Haddad

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 16-Apr-21

JOB/PROJECT NO.: SQ1MH21048

DATE REPORTED: 16-Apr-21

P.O. NUMBER:

SAMPLE MATRIX: Paint Chips

WATERWORKS NO.

Parameter			Lead				
Units			% by wt				
R.L.			0.0005				
Reference Method			EPA 6010				
Date Analyzed/Site			16-Apr-21/O				
Client I.D.	Sample I.D.	Date Collected					
L1 White/ Main Floor, Tin Roof	B21-10741-1	18-Jan-21	0.513				
L2 White/2nd Floor Ceiling	B21-10741-2	18-Jan-21	0.0171				
L3 Blue/2nd Floor, Bathroom	B21-10741-3	18-Jan-21	0.25				

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from



Greg Clarkin, BSc., C. Chem
Lab Manager - Ottawa District

Laboratory Analysis Report

To:

Mike Anderson
Squareone Consulting
629 UPP 3rd St SE
Medicine Hat, Alberta
T1A 0J7

EMC LAB REPORT NUMBER: A73093

Job/Project Name:

Analysis Method: Polarized Light Microscopy – EPA 600

Date Received: Oct 1/21

Date Analyzed: Oct 1/21

Analyst: Chengming Li

Reviewed By: Malgorzata Sybydlo, *Laboratory Manager*

Job No: SQ1MH21303

Number of Samples: 11

Date Reported: Oct 1/21

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
A1	A73093-1	Vinyl flooring/ back entrance; top layer	Grey, vinyl sheet backing	Chrysotile	50	10	40
A2	A73093-2	Floor tile/ back entrance; 2 nd layer	2 Phases: a) Beige, vinyl floor tile b) Black, mastic	Chrysotile ND	2		98 100
A3	A73093-3	Vinyl flooring/ main floor bathroom	Grey, vinyl sheet backing	Chrysotile	50	10	40
A4	A73093-4	Vinyl flooring/ top of mezzanine	2 Phases: a) Grey, floor backing b) Brown, mastic	ND ND		60	40 100
A5	A73093-5	Vinyl flooring/ 2 nd floor landing	3 Phases: a) Green, vinyl flooring b) Grey, vinyl backing c) Brown, mastic	ND ND ND		60	100 40 100
A6	A73093-6	Floor tile/ addition	2 Phases: a) Off white, vinyl floor tile b) Colourless, mastic	ND ND			100 100
A7	A73093-7	Vinyl flooring/ 2 nd floor hallway; top layer	2 Phases: a) Grey, vinyl sheet backing b) Yellow mastic	ND ND		60	40 100
A8	A73093-8	Floor tile/ 2 nd floor hallway; 2 nd layer	2 Phases: a) Green, vinyl flooring b) Brown, mastic	Chrysotile ND	1		99 100

EMC Scientific Inc. 5800 Ambler Drive • Suite 100 • Mississauga • Ontario • L4W 4J4 • T. 905 629 9247 • F. 905 629 2607

EMC Scientific Inc. is Accredited by NVLAP (NVLAP Code 201020-0) for Bulk Asbestos Analysis

EMC LAB REPORT NUMBER: A73093
Client's Job/Project Name/No.: SQ1MH21303
Analyst: Chengming Li

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
A9	A73093-9	Vinyl flooring/ back bedroom	3 Phases: a) Red, vinyl flooring b) Black, vinyl backing c) Brown, mastic	ND ND ND		60	100 40 100
A10	A73093-10	Vinyl flooring/ 2 nd floor; top of front stairs	2 Phases: a) Grey, vinyl flooring b) Brown, mastic	ND ND			100 100
A11	A73093-11	Vinyl flooring/ 2 nd floor bathroom	2 Phases: a) Brown, vinyl flooring b) Grey, vinyl backing	ND Chrysotile	50	10	100 40

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The limit of quantification (LOQ) is 1%.
5. Vinyl floor tiles may contain very fine asbestos fibres which the PLM method cannot detect. TEM analysis may be necessary to confirm the absence of asbestos.

Laboratory Analysis Report

To:

Mike Anderson
Squareone Consulting
629 UPP 3rd St SE
Medicine Hat, Alberta
T1A 0J7

EMC LAB REPORT NUMBER: A73247

Job/Project Name:

Analysis Method: Polarized Light Microscopy – EPA 600

Date Received: Oct 7/21

Date Analyzed: Oct 7/21

Analyst: Jayoda Perera

Reviewed By: Chengming Li, *Analyst*

Job No: SQ1MH21303

Number of Samples: 2

Date Reported: Oct 7/21



Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
A12	A73247-1	Joint compound/ main floor bathroom	White and off white, joint compound	ND		100
A13	A73247-2	Joint compound/ 2 nd floor NW bedroom; east wall	Off white, joint compound	ND		100

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The limit of quantification (LOQ) is 1%.

Laboratory Analysis Report

To:

Mike Anderson
Squareone Consulting
629 UPP 3rd St SE
Medicine Hat, Alberta
T1A 0J7

EMC LAB REPORT NUMBER: A73731

Job/Project Name:

Analysis Method: Polarized Light Microscopy – EPA 600

Date Received: Oct 25/21

Date Analyzed: Oct 25/21

Analyst: Chengming Li

Reviewed By: Malgorzata Sybydlo, *Laboratory Manager*

Job No: SQ1MH21303

Number of Samples: 1

Date Reported: Oct 25/21

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
A14	A73731-1	Pipe Joint Packing/ Basement Plumbing	Brown, compressed fibrous material	ND		70	30

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The limit of quantification (LOQ) is 1%.

Appendix III

Floor Plan with Sampling Locations and Results

