



Hazardous Building Materials Assessment (Pre-construction)

Exterior Masonry, Door, and
Window Renovations
Fort Henry
1 Fort Henry Dr, Kingston,
Ontario

Prepared for:

**John G. Cooke and Associates
Ltd.**

17 Fitzgerald Road, Suite 200
Ottawa, Ontario, K2H 9G1

October 18, 2022

Pinchin File: 315071



Issued to: John G. Cooke and Associates Ltd.
Issued on: October 18, 2022
Pinchin File: 315071
Issuing Office: Kingston, ON

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EXECUTIVE SUMMARY

John G. Cooke and Associates Ltd. (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment at Fort Henry located at 1 Fort Henry Dr, Kingston, Ontario. Pinchin performed the assessment on September 21, 2022.

The objective of the assessment was to identify specified hazardous building materials in preparation for building renovations. The proposed work as identified by the Client includes planned exterior wall renovations to Blocks 1, 2, and 11. The renovations include repairs to windows, doors, and masonry.

Results of this assessment are intended for use with a properly developed scope of work or performance specifications and safe work procedures.

SUMMARY OF FINDINGS

The following is a summary of significant findings; refer to the body of the report for detailed findings:

Asbestos:

- Caulking on exterior window frames.

Lead:

- Lead is present in paints.

Silica: Crystalline silica is present in concrete, masonry and mortar.

Mercury: Mercury-containing devices were not observed.

Polychlorinated Biphenyls (PCBs): PCBs were not found in the assessed area.

Mould and Water Damage: Visible mould growth and water damage was not observed.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations:

1. Remedial work is recommended regardless of the planned construction work due to the condition of the material. Refer to Section 5.2 for details.
2. Prepare a scope of work or specifications and safe work procedures for the hazardous materials removal required for the planned work.



3. Do not disturb suspected hazardous building materials discovered during the planned work, which have not been identified in this report and arrange for further evaluation and testing.
4. Remove and properly dispose of asbestos-containing materials prior to renovation activities.
5. Follow appropriate safe work procedures when handling or disturbing asbestos, lead, and silica.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.



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1.0 INTRODUCTION AND SCOPE

John G. Cooke and Associates Ltd. (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment at Fort Henry located at 1 Fort Henry Dr, Kingston, Ontario.

Pinchin performed the assessment on September 21, 2022. The surveyors were unaccompanied during the assessment. The assessed area was occupied at the time of the assessment.

The objective of the assessment was to identify specified hazardous building materials in preparation for building renovation activities. The proposed work as identified by the Client includes planned exterior wall renovations to Blocks 1, 2, and 11. The renovations include repairs to windows, doors, and masonry.

The results of this assessment are intended for use with a properly developed scope of work or performance specification.

1.1 Scope of Assessment

The **assessed area** is limited to the portion(s) of the exterior of the building to be renovated, including exterior and perimeter interior walls as described by the Client, and identified in the drawings in Appendix I.

The assessment was performed to establish the type of specified hazardous building materials, locations and approximate quantities incorporated in the structure(s) and its finishes.

For the purpose of the assessment and this report, hazardous building materials are defined as follows:

- Asbestos
- Lead
- Silica
- Mercury
- Polychlorinated Biphenyls (PCBs)
- Mould

The following Designated Substances are not typically found in building materials in a composition/state that is hazardous and were not included in this assessment:

- Arsenic
- Acrylonitrile
- Benzene
- Coke oven emissions



- Ethylene oxide
- Isocyanates
- Vinyl chloride monomer

2.0 METHODOLOGY

A room-by-room assessment (rooms, corridors, service areas, exterior, etc.) will be conducted to identify the hazardous building materials as defined in the scope.

The assessment included limited demolition of walls to view concealed conditions at representative areas as permitted by the current building use. Demolition of exterior building finishes, masonry walls (chases, shafts etc.), and structural surrounds was not conducted.

Sampling of roofing materials was not conducted.

For further details on the methodology including test methods, refer to Appendix III.

3.0 BACKGROUND INFORMATION

3.1 Building Description

Description Item	Details
Use	Museum and Park
Number of Floors	The building is 2 storeys plus 1 level below grade
Total Assessed Area	The assessed area is approximately 30,000 square feet
Year of Construction	The building was constructed in 1832
Structure	Limestone block and wood
Exterior Cladding	Limestone block and wood
HVAC	Outside of scope
Roof	Wood shingles (outside of scope)
Flooring	Limestone block
Interior Walls	Limestone block
Ceilings	Wood

4.0 FINDINGS

The following section summarizes the findings of the assessment and provides a general description of the hazardous building materials identified. For details on approximate quantities, condition, friability, accessibility, and locations of hazardous building materials; refer to the Hazardous Material Summary / Sample Log and All Data Report in Appendices V and VI.

Any quantities listed in this report or data tables are estimated based on visual approximations only and are subject to variation.

4.1 Asbestos

4.1.1 Pipe Insulation

Pipes were not found in the assessed area.

4.1.2 Duct Insulation and Mastic

Ducts were not found in the assessed area.

4.1.3 Mechanical Equipment Insulation



Mechanical equipment was not found in the assessed area.


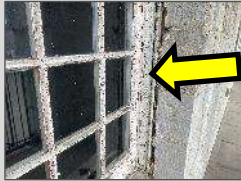
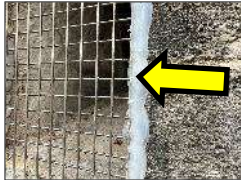
4.1.4 Vermiculite

Loose fill vermiculite was not observed in the spaces and areas inspected. Destructive testing was not performed due to the scope of the project, and vermiculite may be present within, and above solid ceilings or other void space.

4.1.5 Sealants, Caulking, and Putty

The following is a summary of sealants, caulking, and putties sampled. For a complete list of locations, refer to Appendix V.



Material, Description and Application	Sample Location (Location #)	Sample Number	Asbestos	Photo
Putty, white, exterior window liners	South West Wall (Location 1)	S0002A-C	No	
Caulking, off white, exterior window frames	South West Wall (Location 1)	S0003A-C	No	

Material, Description and Application	Sample Location (Location #)	Sample Number	Asbestos	Photo
Putty, white, exterior door window liners	South West Wall (Location 1)	S0004A-C	No	
Caulking, brittle grey, exterior window frames	South Side Wall (Location 2)	S0005A-C	Yes	
Caulking, silicone, exterior window frames	Not sampled	N/A	No*	

*Presumed to be non-asbestos based on the composition of the material (silicone).

4.1.6 Other Building Materials

The following is a summary of other materials sampled. For a complete list of locations, refer to Appendix V.

Description	Sample Location (Location #)	Sample Number	Asbestos	Photo
Mortar, perimeter limestone walls	South West Wall (Location 1) South Side Wall (Location 2)	S0001A-G	No	
Mortar, perimeter limestone walls	North West Wall (Location 3)	S0006A-G	No	



4.1.7 Excluded Materials

The following is a list of materials which may contain asbestos and was excluded from the assessment. These materials are presumed to contain asbestos until otherwise proven by sampling and analysis:

- Vermiculite
- Materials concealed or outside of the assessed area

4.2 Lead

4.2.1 Paints and Surface Coatings

The following table summarizes the analytical results of paints sampled:

Sample Number	Colour, Substrate Description	Sample Location	Lead (%)
L0001	White, exterior window frames	South West Wall (Location 1) South Side Wall (Location 2) Composite samples	0.626
L0002	Grey, exterior door	South West Wall (Location 1) South Side Wall (Location 2) Composite samples	0.0711

The federal Surface Coating Materials Regulations restricts lead in paint and surface coatings to 0.009%. In general, paints containing lead >0.009% may require work procedures if disturbed. In order to determine which controls and personal protective equipment is required for a particular operation, any disturbance of paint will require a risk assessment conducted by a qualified person.

Paint containing less than 0.009% (90 mg/kg) lead is assumed to be insignificant.

4.2.2 Lead Products and Applications

Mortar present at the joints of exterior limestone masonry walls contains insignificant amounts of lead (samples L0003 and L0004).

4.3 Silica

Crystalline silica is assumed to be a component of the following materials where present in the building:

- Concrete
- Masonry and mortar



4.4 Mercury

4.4.1 Lamps

Mercury-containing lamps were not found during the assessment.

4.4.2 Mercury-Containing Devices

Mercury-containing devices were not found during the assessment.

4.5 Polychlorinated Biphenyls

4.5.1 Caulking and Sealants

The following table presents a summary of caulking sampled:

Material, Colour, Application	Sample Location (Location #)	Sample Number	PCB (mg/kg)
Putty, exterior window and door window liners	South West Wall (Location 1) South Side Wall (Location 2) Composite sample	P0001	<5
Caulking, brittle grey, exterior window frames	South Side Wall (Location 2)	P0002	<5
Caulking, soft beige, exterior window frames	South West Wall (Location 1)	P0003	<5
Caulking, silicone, exterior window frames	Not sampled	N/A	None*

*Presumed to be non-PCB based on the composition of the material (silicone).

Caulking in the table above is considered a non-PCB solid based on the threshold (50 mg/kg).

4.5.2 Transformers

Transformers were not found during the assessment.

4.6 Mould and Water Damage

Visible mould growth and water damage was not found during the assessment.

5.0 RECOMMENDATIONS

5.1 General

1. Prepare scope of work or performance specifications for hazardous material removal required for the planned work. The specifications should include safe work practices, personal protective equipment, respiratory protection, and disposal of waste materials.



2. If suspected hazardous building materials are discovered during the planned work, which are not identified in this report, do not disturb, and arrange for further testing and evaluation.
3. Provide this report and the detailed plans and specifications to the contractor prior to bidding or commencing work.
4. Retain a qualified consultant to specify, observe and document the successful removal of hazardous materials.

5.2 Building Renovation Work

The following recommendations are made regarding renovation involving the hazardous materials identified:

Material, Quantity & Condition	Location	Recommended Procedure
White paint on window trim, 1000 square feet, poor condition	South West Wall (Location 1) South Side Wall (Location 2)	Remove in accordance with EACC Class 2A Lead Abatement Procedures

5.2.1 Asbestos

Remove asbestos-containing materials (ACM) prior to renovation, alteration, or maintenance if ACM may be disturbed by the work. If the identified ACM will not be removed prior to commencement of the work, any potential disturbance of ACM must follow asbestos precautions appropriate for the type of work being performed.

Asbestos-containing materials must be disposed of at a landfill approved to accept asbestos waste.

5.2.2 Lead

Construction disturbance of lead in paint and coatings (or other materials) may result in exposure to lead dust or fumes and safe work procedures are required. Project specific work procedures, engineering controls and personal protective equipment will need to be assessed and developed as per applicable regulations and guidelines.

Items painted with paints containing elevated levels of lead may be a hazardous waste. Test lead-painted materials for leachable lead and other metals prior to disposal. Metallic components coated with lead paint do not require leachate testing and can be disposed of as non-hazardous construction and demolition (C&D) waste.



5.2.3 Silica

Construction disturbance of silica-containing products may result in excessive exposures to airborne silica, especially if performed indoors and dry. Cutting, grinding, drilling or demolition of materials containing silica should be completed only with proper respiratory protection and other worker safety precautions that comply with applicable regulations and guidelines.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.
2. Designated Substances, Ontario Regulation 490/09.
3. Lead on Construction Projects, Ministry of Labour Guidance Document.
4. The Environmental Abatement Council of Canada (EACC) Lead Guideline for Construction, Renovation, Maintenance or Repair.
5. Ministry of the Environment Regulation, R.R.O. 1990 Reg. 347 as amended.
6. Ministry of the Environment Regulation, R.R.O. 1990 Reg. 362 as amended.
7. Silica on Construction Projects, Ministry of Labour Guidance Document.
8. Alert – Mould in Workplace Buildings, Ontario Ministry of Labour.
9. PCB Regulations, SOR/2008-273, Canadian Environmental Protection Act.
10. Surface Coating Materials Regulations, SOR/2016-193, Canada Consumer Product Safety Act.



Hazardous Building Materials Assessment (Pre-construction)

Fort Henry, 1 Fort Henry Dr, Kingston, Ontario
John G. Cooke and Associates Ltd.

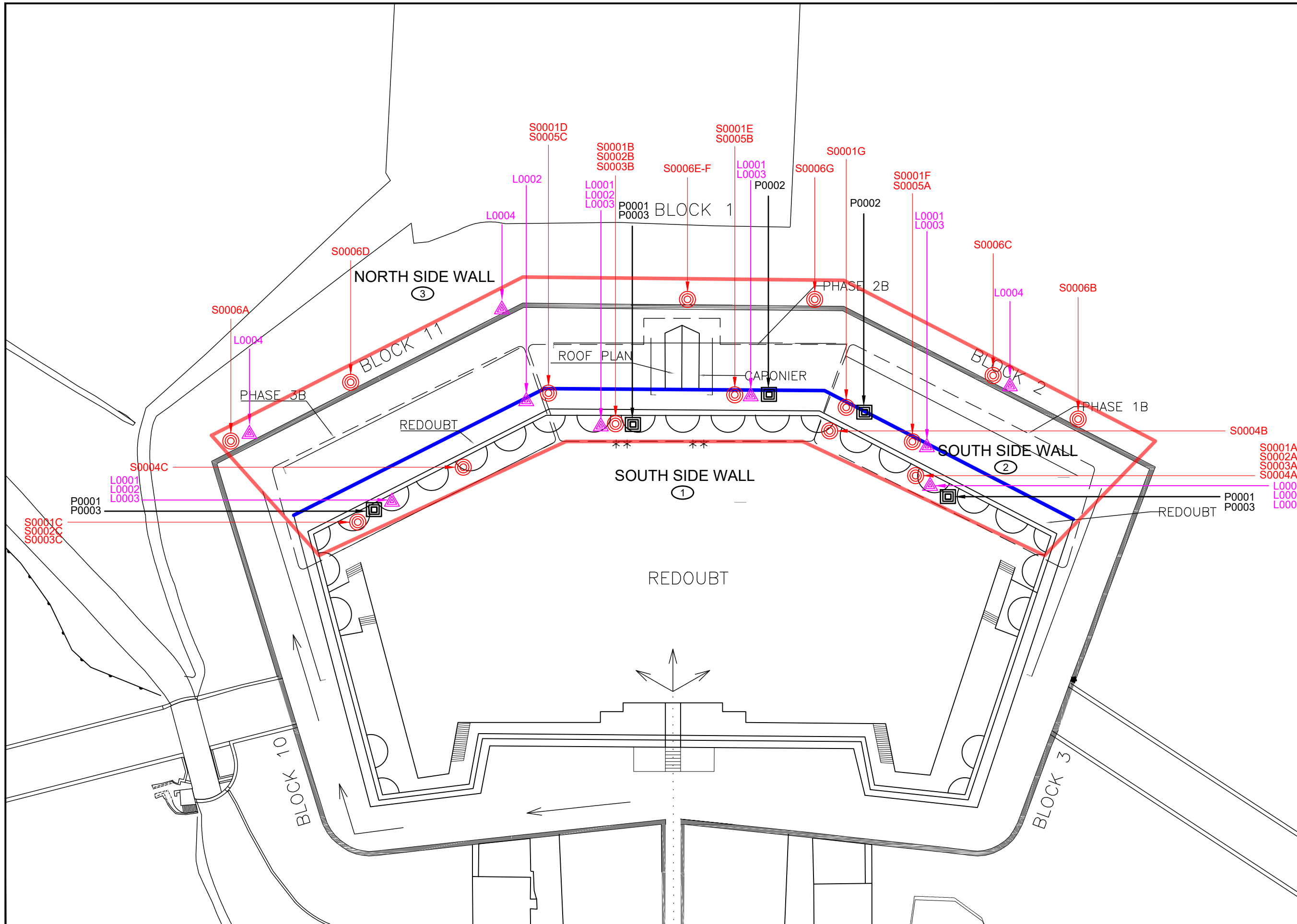
October 18, 2022
Pinchin File: 315071


11. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.
12. Canada Occupational Health and Safety Regulation, SOR/86-304.

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Template: Master Report for Hazardous Materials Assessment (Pre-Construction), HAZ, September 9, 2022

APPENDIX I
Drawing





LEGEND

- X PINCHIN LOCATION NUMBER
- ⊙ ASBESTOS BULK SAMPLE
- ▲ LEAD BULK SAMPLE
- PCB BULK SAMPLE
- SURVEY BOUNDARY/ASSESSED AREA

ASBESTOS-CONTAINING MATERIALS:

- BRITTLE GREY CAULKING (WINDOW)


NOTE:

- ASBESTOS-CONTAINING CAULKING IS PRESENT ON THE WINDOWS OF THE SECOND FLOOR.

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

BASE PLAN PROVIDED BY CLIENT.



PROJECT NAME:
HAZARDOUS MATERIALS BUILDING ASSESSMENT

CLIENT NAME:
JOHN G. COOKE AND ASSOCIATES LTD.

PROJECT LOCATION:
**FORT HENRY
1 FORT HENRY DRIVE
KINGSTON, ONTARIO**

FIGURE NAME:
SITE PLAN

PROJECT NUMBER: 315071	SCALE: NOT TO SCALE
DRAWN BY: AL	REVIEWED BY: HM
DATE: OCTOBER 2022	FIGURE NUMBER: 1 OF 1

APPENDIX II-A
Asbestos Analytical Certificates



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project No.: 0315071.000
Prepared For: A. Lazette / L. Skoblenick

Lab Reference No.: b279204
Analyst(s): T. Ly

Date Received: September 21, 2022 **Samples Submitted:** 26
Date Analyzed: September 28, 2022 **Phases Analyzed:** 34

The Pinchin Ltd. Mississauga asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

This report relates only to the items tested and is valid only when signed with a protected, authorized, electronic signature. This report may not be reproduced, except in full, without the written approval of Pinchin Ltd. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government. Internal verification studies, quality assurance / control data and laboratory documentation on measurement uncertainty are available upon request.



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project No.: 0315071.000
Prepared For: A. Lazette / L. Skoblenick

Lab Reference No.: b279204
Date Analyzed: September 28, 2022

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0001A Wall, Mortar, Loc: 1, South Side Wall	Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0001B Wall, Mortar, Loc: 1, South Side Wall	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0001C Wall, Mortar, Loc: 1, South Side Wall	Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0001D Wall, Mortar, Loc: 2, South Side Wall	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0001E Wall, Mortar, Loc: 2, South Side Wall	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0001F Wall, Mortar, Loc: 2, South Side Wall	Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project No.: 0315071.000
Prepared For: A. Lazette / L. Skoblenick

Lab Reference No.: b279204
Date Analyzed: September 28, 2022

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0001G Wall,Mortar,Loc:2,South Side Wall	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0002A Wall,Window,Putty,Loc:1,South Side Wall	Homogeneous, off-white, consolidated material.	None Detected	Non-Fibrous Material > 75%
S0002B Wall,Window,Putty,Loc:1,South Side Wall	Homogeneous, off-white, consolidated material.	None Detected	Non-Fibrous Material > 75%
S0002C Wall,Window,Putty,Loc:2,South Side Wall	Homogeneous, off-white, consolidated material.	None Detected	Non-Fibrous Material > 75%
S0003A Wall,Window,Caulking,Off White,Loc:1,South Side Wall	Homogeneous, light grey, granular, rubbery material.	None Detected	Non-Fibrous Material > 75%
S0003B Wall,Window,Caulking,Off White,Loc:1,South Side Wall	Homogeneous, light grey, granular, rubbery material.	None Detected	Non-Fibrous Material > 75%
S0003C Wall,Window,Caulking,Off White,Loc:1,South Side Wall	Homogeneous, light grey, granular, rubbery material.	None Detected	Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project No.: 0315071.000
Prepared For: A. Lazette / L. Skoblenick

Lab Reference No.: b279204
Date Analyzed: September 28, 2022

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0004A Wall,Door,Putty,Loc:1,South Side Wall	Homogeneous, off-white, consolidated material.	None Detected	Non-Fibrous Material > 75%
S0004B Wall,Door,Putty,Loc:1,South Side Wall	Homogeneous, off-white, consolidated material.	None Detected	Non-Fibrous Material > 75%
S0004C Wall,Door,Putty,Loc:2,South Side Wall	Homogeneous, off-white, consolidated material.	None Detected	Non-Fibrous Material > 75%
S0005A Wall,Window,Caulking,Brittle Grey,Loc:2,South Side Wall	Homogeneous, grey, cementitious, caulking material.	Chrysotile 5-10%	Non-Fibrous Material > 75%
S0005B Wall,Window,Caulking,Brittle Grey,Loc:2,South Side Wall			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
S0005C Wall,Window,Caulking,Brittle Grey,Loc:2,South Side Wall			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project No.: 0315071.000
Prepared For: A. Lazette / L. Skoblenick

Lab Reference No.: b279204
Date Analyzed: September 28, 2022

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0006A Wall, Mortar, Loc:3, North Side Wall	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0006B Wall, Mortar, Loc:3, North Side Wall	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0006C Wall, Mortar, Loc:3, North Side Wall	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0006D Wall, Mortar, Loc:3, North Side Wall	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

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BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0006E Wall, Mortar, Loc:3, North Side Wall	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0006F Wall, Mortar, Loc:3, North Side Wall	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0006G Wall, Mortar, Loc:3, North Side Wall	Homogeneous, light grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%

Reviewed by:

Digitally signed by
Elizabeth DeCurtis
Date: 2022.09.28
14:15:04-04'00'

Reporting Analyst:

Digitally signed by
Elizabeth DeCurtis
Date: 2022.09.28
14:15:19-04'00'

Analyzed by: TR
 Reviewed by: KTB
 Report Sent by: [Signature]

Pinchin Ltd. - Asbestos Laboratory Internal Asbestos Bulk Sample Chain of Custody

Client Name:		Project Address:	
Portfolio/Building No:		Pinchin File:	315071
Submitted by:	Adam Lazette	Email:	alazette@pinchin.com
CC Results to:	Laura Skoblenick	CC Email:	lskoblenick@pinchin.com
Date Submitted:	September 20 2022	Required by:	September 27 2023
# of Samples:	26	Priority:	5 Day Turnaround
Year of Building Construction (Mandatory, Years ONLY):	1832		
Do NOT Stop on Positive (Sample Numbers):	S0001A-G, S0006A-G		
Pinchin Group Company (Mandatory Field):	Pinchin		
HMIS2 Building Reference #:	110418/202282086786362		

To be Completed by Lab Personnel Only: b2792040

Lab Reference #:	SEP 21 2022	Time:	24 hour clock
Received by:	TL	Date:	Month Day Year
Name(s) of Analyst(s):			9 28 21

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0001	A	Wall, Mortar, Loc:1, South Side Wall ND
S	0001	B	Wall, Mortar, Loc:1, South Side Wall a) ND b) ND
S	0001	C	Wall, Mortar, Loc:1, South Side Wall ND
S	0001	D	Wall, Mortar, Loc:2, South Side Wall a) ND b) ND
S	0001	E	Wall, Mortar, Loc:2, South Side Wall a) ND b) ND
S	0001	F	Wall, Mortar, Loc:2, South Side Wall ND
S	0001	G	Wall, Mortar, Loc:2, South Side Wall a) ND b) ND
S	0002	A	Wall, Window, Putty, Loc:1, South Side Wall ND

12 + 9 + 3 = 34

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0002	B	Wall,Window,Putty,Loc:1,South Side Wall ND
S	0002	C	Wall,Window,Putty,Loc:2,South Side Wall ND
S	0003	A	Wall,Window,Caulking,Off White,Loc:1,South Side Wall ND
S	0003	B	Wall,Window,Caulking,Off White,Loc:1,South Side Wall ND
S	0003	C	Wall,Window,Caulking,Off White,Loc:1,South Side Wall ND
S	0004	A	Wall,Door,Putty,Loc:1,South Side Wall ND
S	0004	B	Wall,Door,Putty,Loc:1,South Side Wall ND
S	0004	C	Wall,Door,Putty,Loc:2,South Side Wall ND
S	0005	A	Wall,Window,Caulking,Brittle Grey,Loc:2,South Side Wall CHS-10
S	0005	B	Wall,Window,Caulking,Brittle Grey,Loc:2,South Side Wall -NA-
S	0005	C	Wall,Window,Caulking,Brittle Grey,Loc:2,South Side Wall -NA-
S	0006	A	Wall,Mortar,Loc:3,North Side Wall a)ND b)ND
S	0006	B	Wall,Mortar,Loc:3,North Side Wall a)ND b)ND
S	0006	C	Wall,Mortar,Loc:3,North Side Wall a)ND b)ND
S	0006	D	Wall,Mortar,Loc:3,North Side Wall a)ND b)ND
S	0006	E	Wall,Mortar,Loc:3,North Side Wall a)ND b)ND

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0006	F	Wall, Mortar, Loc:3, North Side Wall a)ND b)ND
S	0006	G	Wall, Mortar, Loc:3, North Side Wall ND

3

b279204⁹.

APPENDIX II-B
Lead Analytical Certificates

Certificate of Analysis

Pinchin Ltd. (Kingston)

1456 Centennial Drive, Suite 2
Kingston, ON K7P 0K4
Attn: Adam Lazette

Client PO:
Project: 315071
Custody:

Report Date: 26-Sep-2022
Order Date: 21-Sep-2022

Order #: 2239247

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Parcel ID	Client ID
2239247-01	L0001 - White, window, Loc 1,2
2239247-02	L0002 - Grey, door, Loc 1,2
2239247-03	L0003 - Mortar, block wall, Loc 1,2
2239247-04	L0004 - Mortar, block wall, Loc 3

Approved By:



Dale Robertson, BSc
Laboratory Director

Any use of these results implies your agreement that our total liability in connection with this work, however arising shall be limited to the amount paid by you for this work, and that our employees or agents shall not under circumstances be liable to you in connection with this work

Certificate of Analysis
Client: **Pinchin Ltd. (Kingston)**
Client PO:

Report Date: 26-Sep-2022
Order Date: 21-Sep-2022
Project Description: **315071**

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Metals, ICP-MS	EPA 6020 - Digestion - ICP-MS	23-Sep-22	23-Sep-22

Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

n/a: not applicable
ND: Not Detected
MDL: Method Detection Limit
Source Result: Data used as source for matrix and duplicate samples
%REC: Percent recovery.
RPD: Relative percent difference.

Certificate of Analysis
 Client: Pinchin Ltd. (Kingston)
 Client PO:

Report Date: 26-Sep-2022
 Order Date: 21-Sep-2022
 Project Description: 315071

Sample Results

Lead						Matrix: Other
Parcel ID	Client ID	Sample Date	Units	MDL	Result	
2239247-03	L0003 - Mortar, block wall, Loc 1,2	20-Sep-22	% by Wt.	0.0001	0.0032	
2239247-04	L0004 - Mortar, block wall, Loc 3	20-Sep-22	% by Wt.	0.0001	0.0005	

Lead						Matrix: Paint
Parcel ID	Client ID	Sample Date	Units	MDL	Result	
2239247-01	L0001 - White, window, Loc 1,2	20-Sep-22	% by Wt.	0.0005	0.626	
2239247-02	L0002 - Grey, door, Loc 1,2	20-Sep-22	% by Wt.	0.0005	0.0711	

Laboratory Internal QA/QC

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Matrix Blank									
Lead	ND	0.0001	% by Wt.						
Matrix Duplicate									
Lead	0.00667	0.0005	% by Wt.	0.00793			17.30	50	
Matrix Spike									
Lead	46.4	5.00	% by Wt.	3.2	86.5	70-130			



Parcel ID: 2239247



Fee
St. Laurent Blvd
Ontario K1G 4J8
719-1947
www.paracelabs.com

Parcel Order Number
(Lab Use Only)

2239247

Chain Of Custody
(Lab Use Only)

Page 1 of 1

Client Name: Pinchin Ltd.
Contact Name: Adam Lazette
Address: 1456 Centennial Drive, Suite 2, Kingston
Telephone: 613.541.1013

Project Ref:
Quote #: Standing Offer
PO #: 315071
E-mail: alazette@pinchin.com
cwright@pinchin.com

Turnaround Time
 1 day 3 day
 2 day Regular
Date Required: Sept 27/2022

REG 153/04 REG 406/19
 Table 1 Res/Park Med/Fine
 Table 2 Ind/Comm Coarse
 Table 3 Agri/Other
 Table _____
For RSC: Yes No

Other Regulation
 REG 558 PWQO
 CCME MISA
 SU - Sani SU - Storm
Mun: _____
 Other: _____

Matrix Type: S (Soil/Sed.) GW (Ground Water)
SW (Surface Water) SS (Storm/Sanitary Sewer)
P (Paint) A (Air) O (Other)

Required Analysis

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		LEAD	Required Analysis													
				Date	Time															
1 L0001 - White, window, Loc. 1, 2	p		1	Sept 20 2022	AM	✓														
2 L0002 - Grey, door, Loc. 1, 2	p		1	Sept 20 2022	AM	✓														
3 L0003 - Mortar, block wall, Loc. 1, 2	p		1	Sept 20 2022	AM	✓														
4 L0004 - Mortar, block wall, Loc. 3	p		1	Sept 20 2022	AM	✓														
5																				
6																				
7																				
8																				
9																				
10																				

Comments: cc lskoblenick@pinchin.com with results
Please report results in percent

Method of Delivery:
Purolator

Relinquished By (Sign): *A. Lazette* Received By Driver/Depot: _____ Received at Lab: *Suneeporn Dohmai* Verified By: *[Signature]*
Relinquished By (Print): Adam Lazette Date/Time: _____ Date/Time: *SEP 21 2022 10:00* Date/Time: *SEP 21 2022*
Date/Time: Sept 20 2022 Temperature: _____ °C Temperature: _____ pH Verified: By: *[Signature]*

APPENDIX II-C
PCB Analytical Certificates

Certificate of Analysis

Pinchin Ltd. (Kingston)

1456 Centennial Drive, Suite 2
Kingston, ON K7P 0K4
Attn: Adam Lazette

Client PO:
Project: 315071
Custody:

Report Date: 28-Sep-2022
Order Date: 21-Sep-2022

Order #: 2239241

This Certificate of Analysis contains analytical data applicable to the following samples as submitted :

Parcel ID	Client ID
2239241-01	P0001 - Putty, window, Loc. 1.2
2239241-02	P0002 - Caulking, brittle grey, Loc. 2
2239241-03	P0003 - Caulking, soft beige, Loc. 1

Approved By:



Dale Robertson, BSc
Laboratory Director

Certificate of Analysis
Client: Pinchin Ltd. (Kingston)
Client PO:

Report Date: 28-Sep-2022
Order Date: 21-Sep-2022
Project Description: 315071

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
PCBs, total	SW846 8082A - GC-ECD	22-Sep-22	28-Sep-22

Certificate of Analysis
 Client: Pinchin Ltd. (Kingston)
 Client PO:

Report Date: 28-Sep-2022
 Order Date: 21-Sep-2022
 Project Description: 315071

Client ID:	P0001 - Putty, window, Loc. 1.2	P0002 - Caulking, brittle grey, Loc. 2	P0003 - Caulking, soft beige, Loc. 1	-
Sample Date:	20-Sep-22 00:00	20-Sep-22 00:00	20-Sep-22 00:00	-
Sample ID:	2239241-01	2239241-02	2239241-03	-
MDL/Units	Other	Other	Other	-

PCBs

PCBs, total	5 ppm	<5	<5	<5	-
Decachlorobiphenyl	Surrogate	114%	112%	113%	-

Certificate of Analysis
 Client: Pinchin Ltd. (Kingston)
 Client PO:

Report Date: 28-Sep-2022
 Order Date: 21-Sep-2022
 Project Description: 315071

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	ND	5	ppm						
Surrogate: Decachlorobiphenyl	6.40		ppm		128	60-140			

Certificate of Analysis
 Client: Pinchin Ltd. (Kingston)
 Client PO:

Report Date: 28-Sep-2022
 Order Date: 21-Sep-2022
 Project Description: 315071

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	ND	5	ppm	ND			NC	40	
Surrogate: Decachlorobiphenyl	5.77		ppm		115	60-140			

Certificate of Analysis

Report Date: 28-Sep-2022

Client: Pinchin Ltd. (Kingston)

Order Date: 21-Sep-2022

Client PO:

Project Description: 315071

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	23	5	ppm	ND	116	60-140			
Surrogate: Decachlorobiphenyl	5.80		ppm		116	60-140			

Certificate of Analysis

Client: Pinchin Ltd. (Kingston)

Client PO:

Report Date: 28-Sep-2022

Order Date: 21-Sep-2022

Project Description: 315071

Qualifier Notes:

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

APPENDIX III
Methodology



1.0 GENERAL

An inspection was conducted to identify the type of Hazardous Building Materials incorporated in the structure and its finishes.

Information regarding the location and condition of hazardous building materials encountered and visually estimated quantities were recorded. The locations of any samples collected were recorded on small-scale plans. As-built drawings and previous reports were referenced where provided.

Sample collection was conducted in accordance with our Standard Operating Procedures.

1.1 Asbestos

The inspection for asbestos included friable and non-friable asbestos-containing materials (ACM). A friable material is a material that when dry can be crumbled, pulverized or powdered by hand pressure.

A separate set of samples was collected of each type of homogenous material suspected to contain asbestos. A homogenous material is defined by the US EPA as material that is uniform in texture and appearance, was installed at one time, and is unlikely to consist of more than one type or formulation of material. The homogeneous materials were determined by visual examination and available information on the phases of construction and prior renovations.

Samples were collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy was also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM. In some cases, manufactured products such as asbestos cement pipe were visually identified without sample confirmation.

The asbestos analysis was completed using a stop-positive approach. Only one result meeting the regulated criteria was required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stopped analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material were analyzed if no asbestos is detected. In some cases, all samples were analyzed in the sample set regardless of result.

The analysis was performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, July 1993.

Analytical results were compared to the following criteria.

Jurisdiction*	Friable	Non-Friable
Ontario	0.5%	0.5%
Federal	1%	1%

* If there is a conflict between federal and provincial criteria, the more stringent will apply.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation. Additionally, these terms are used for materials which historically are known to not include asbestos in their manufacturing.

1.2 Lead

Samples of distinctive paint finishes, and surface coatings present in more than a limited application, where removal of the paint is possible was collected. The samples were collected by scraping the painted finish to include base and covering applications.

Analysis for lead in paints or surface coatings was performed in accordance with EPA Method No. 3050B/Method No. 7420; flame atomic absorption, or equivalent.

Analytical results were compared to the following criteria.

Jurisdiction*	Units (%)	Units (ppm) / (mg/kg)
Ontario	0.1	1000
Federal	0.009	90

* If there is a conflict between federal and provincial criteria, the more stringent will apply.

Other lead building products (e.g. batteries, lead sheeting, flashing) were identified by visual observation only.

1.3 Silica

Building materials known to contain crystalline silica (e.g. concrete, cement, tile, brick, masonry, mortar) were identified by visual inspection only. Pinchin did not perform sampling of these materials for laboratory analysis of crystalline silica content.

1.4 Mercury

Building materials, products or equipment (e.g. thermostats, barometers, pressure gauges, lamp tubes), suspected to contain mercury was identified by visually inspection only. Dismantling of equipment



suspected of containing mercury was not performed. Sampling of these materials for laboratory analysis of mercury content was not performed.

1.5 Polychlorinated Biphenyls

The potential for light ballast and oil filled transformers to contain PCBs was based on the age of the building, a review of maintenance records and examination of labels or nameplates on equipment, where present and accessible. The information was compared to known ban dates of PCBs and Environment Canada publications.

Dry type transformers were presumed to be free of dielectric fluids and hence non-PCB.

Fluids (mineral oil, hydraulic, Aroclor or Askarel) in transformers or other equipment were not sampled for PCB content.

Caulking, sealants, or paints were sampled and submitted for PCB analysis following EPA 3550C/8082A.

Sample results are compared to the criteria of 50 mg/kg for solids as stated in the PCB Regulation, SOR/2008-273.

1.6 Visible Mould

The presence of mould or water damage was determined by visual inspection of exposed building surfaces. If any mould growth or water damage was concealed within building cavities it was not addressed in this assessment.

Template: Methodology for Hazardous Building Materials Assessment, HAZ, November 23, 2021

APPENDIX IV
Location Summary Report

Client: Parks Canada

Site: 1 Fort Henry Drive, Kingston, ON

Building Name: Fort Henry

Survey Date:

Last Re-Assessment:

Location No.	Name or Description	Area ft ²	Floor No.	Bldg. Phase	Notes
1	South West Wall	7500	1	A	Ground Floor
2	South Side Wall	7500	2	A	Second Floor
3	North Side Wall	15000	1	A	

APPENDIX V

Hazardous Materials Summary Report / Sample Log

Client: Parks Canada

Site: 1 Fort Henry Drive, Kingston, ON

Building Name: Fort Henry

Survey Date:

HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive	Friability
Asbestos	S0001 ABCDEFGF	Wall Mortar	1,2	A	0	15000	0	0	None Detected	No	
Asbestos	S0002 ABC	Wall Window Putty White	1	A	0	2500	0	0	None Detected	No	
Asbestos	S0003 ABC	Wall Window Caulking Off White	1	A	0	2500	0	0	None Detected	No	
Asbestos	S0004 ABC	Wall Door Putty White	1	A	0	2500	0	0	None Detected	No	
Asbestos	S0005 ABC	Wall Window Caulking Brittle Grey	2	A	300	0	0	0	Chrysotile	Yes	NF
Asbestos	S0006 ABCDEFGF	Wall Mortar	3	A	0	15000	0	0	None Detected	No	
Asbestos	V0000	Wall Window Caulking Silicone	3	A	800	0	0	0	Non Asbestos	No	
Paint	L0001	Wall Wood White, Window Trim	1,2	A	0	5000	0	0	Lead	Yes	-
Paint	L0002	Wall Wood Grey, Door	1,2	A	0	5000	0	0	Lead	Yes	-
Paint	L0003	Wall Masonry Mortar	1,2	A	0	15000	0	0		No	-
Paint	L0004	Wall Masonry Mortar	3	A	0	15000	0	0		No	-
PCB	P0001	Caulking Window Putty	1,2	A	5000	0	0	0	-	No	-
PCB	P0002	Caulking Brittle Grey	2	A	300	0	0	0	-	No	-
PCB	P0003	Caulking Window	1	A	2500	0	0	0	-	No	-
PCB	V0000	Caulking	3	A	0	0	0	100	-	No	-

Legend:

Sample number		Units			
S####	Asbestos sample collected	SF	Square feet	NF	Non Friable material.
L####	Paint sample collected	LF	Linear feet	F	Friable material
P####	PCB sample collected	EA	Each	PF	Potentially Friable material
M####	Mould sample collected	%	Percentage		
V####	Material visually similar to numbered sample collected				
V0000	Known non Hazardous Material				
V9000	Material is visually identified as Hazardous Material				
V9500	Material is presumed to be Hazardous Material				
[Loc. No.]	Abated Material				

APPENDIX VI
HMIS All Data Report

Client: Parks Canada
Location: #1 : South West Wall
Survey Date: 2022-09-20

Site: 1 Fort Henry Drive, Kingston, ON
Floor: 1

Building Name: Fort Henry
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 7500

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Wall		Mortar			A	Y		7500			SF	S0001ABC	None Detected	N.D.	None	
Wall	All	Masonry			A	Y										
Wall	Door	Putty, White			A	Y		2500			SF	S0004ABC	None Detected	N.D.	None	
Wall	Window	Caulking, Off white			A	Y		2500			SF	S0003ABC	None Detected	N.D.	None	
Wall	Window	Putty, White			A	Y		2500			SF	S0002ABC	None Detected	N.D.	None	

Ground Floor

Client: Parks Canada
Location: #1 : South West Wall
Survey Date: 2022-09-20

Site: 1 Fort Henry Drive, Kingston, ON
Floor: 1

Building Name: Fort Henry
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 7500

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Wood	2000	500	SF	L0001	White, Window trim	Pb: 0.626 %	Lead	
Wall	Wood	2500		SF	L0002	Grey, Door	Pb: 0.0711 %	Lead	
Wall	Masonry	7500		SF	L0003	Mortar	Pb: 0.0032 %	No	

Ground Floor

Client: Parks Canada
Location: #1 : South West Wall
Survey Date: 2022-09-20

Site: 1 Fort Henry Drive, Kingston, ON
Floor: 1

Building Name: Fort Henry
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 7500

PCB						
Component	Quantity	Unit	Sample	Sample Description	Amount	PCB
Caulking	2500	LF	P0001	Window putty	<5 mg/kg	No
Caulking	2500	LF	P0003	Window	<5 mg/kg	No

Ground Floor

Client: Parks Canada
Location: #2 : South Side Wall
Survey Date: 2022-09-20

Site: 1 Fort Henry Drive, Kingston, ON
Floor: 2

Building Name: Fort Henry
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 7500

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Wall		Mortar			A	Y		7500			SF	S0001DEF G	None Detected	N.D.	None	
Wall	All	Masonry			A	Y										
Wall	Window	Caulking, Brittle grey			A	Y		300(7)			LF	S0005ABC	Chrysotile	5-10%	Confirmed Asbestos	NF

Second Floor

Client: Parks Canada
Location: #2 : South Side Wall
Survey Date: 2022-09-20

Site: 1 Fort Henry Drive, Kingston, ON
Floor: 2

Building Name: Fort Henry
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 7500

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Wood	2000	500	SF	L0001	White, Window trim	Pb: 0.626 %	Lead	
Wall	Wood	2500		SF	L0002	Grey, Door	Pb: 0.0711 %	Lead	
Wall	Masonry	7500		SF	L0003	Mortar	Pb: 0.0032 %	No	

Second Floor

Client: Parks Canada
Location: #2 : South Side Wall
Survey Date: 2022-09-20

Site: 1 Fort Henry Drive, Kingston, ON
Floor: 2

Building Name: Fort Henry
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 7500

PCB						
Component	Quantity	Unit	Sample	Sample Description	Amount	PCB
Caulking	300	LF	P0002	Brittle grey	<5 mg/kg	No
Caulking	2500	LF	P0001	Window putty	<5 mg/kg	No

Second Floor

Client: Parks Canada
Location: #3 : North Side Wall
Survey Date: 2022-09-20

Site: 1 Fort Henry Drive, Kingston, ON
Floor: 1

Building Name: Fort Henry
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 15000

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Wall		Mortar			A	Y		15000			SF	S0006ABC DEFG	None Detected	N.D.	None	
Wall	All	Masonry			A	Y										
Wall	Window	Caulking, Silicone			A	Y		800			LF	V0000	Non-Asbestos		None	

Client: Parks Canada
Location: #3 : North Side Wall
Survey Date: 2022-09-20

Site: 1 Fort Henry Drive, Kingston, ON
Floor: 1

Building Name: Fort Henry
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 15000

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	15000		SF	L0004	Mortar	Pb: 0.0005 %	No	

Client: Parks Canada
Location: #3 : North Side Wall
Survey Date: 2022-09-20

Site: 1 Fort Henry Drive, Kingston, ON
Floor: 1

Building Name: Fort Henry
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 15000

PCB						
Component	Quantity	Unit	Sample	Sample Description	Amount	PCB
Caulking	100	%	V0000	Silicone		No

Legend:



Sample number		Units		Other	
S####	Asbestos sample collected	SF	Square feet	A	Access
L####	Paint sample collected	LF	Linear feet	V	Visible
P####	PCB sample collected	EA	Each	AP	Air Plenum
M####	Mould sample collected	%	Percentage	F	Friable material
V####	Material is visually identified to be identical to S####	LF	Linear feet	NF	Non Friable material
V0000	Known non hazardous material			PF	Potentially Friable material
V9000	Material visually identified as a Hazardous Material			Pb	Lead
V9500	Material is presumed to be a hazardous material			Hg	Mercury
				As	Arsenic
				Cr	Chromium

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Visible	
Y	The material is visible when standing on the floor of the room, without the removal or opening of other building components (e.g. ceiling tiles or access panels).
N	The material is not visible to view when standing on the floor of the room and requires the removal of a building component (e.g. ceilings tiles or access panels) to view and access. Includes rarely entered crawlspaces, attic spaces, etc. Observations will be limited to the extent visible from the access points.

Air Plenum	
Yes or No	The material is in a return air plenum or in a direct airstream or there is evidence of air erosion (e.g. duct for heating or cooling blowing directly on or across an ACM). This field is only completed where Air Plenum consideration is required by regulation.

Colour Coding	
	The material is known to contain regulated concentrations of asbestos; either by analytical results or visible identification (use of the V9000 code).
	The material is presumed to contain asbestos; based on visual appearances; typically a material known to historically contain asbestos; however, not sampled due to limited access or the destructive nature of the sampling.

Action					
(1)	Clean up of ACM Debris	(2)	Precautions for Access Which may Disturb ACM Debris	(3)	ACM removal
(4)	Precautions for Work Which may Disturb ACM in Poor Condition	(5)	Proactive ACM removal (Minimum repair required for fair condition)	(6)	ACM repair
(7)	Management program and surveillance				