



HAZARDOUS MATERIALS ASSESSMENT
Government House
1 Terry Fox Drive,
Charlottetown, PE

Prepared For:

PEI Department of Transportation & Infrastructure
P.O. Box 2000
Charlottetown, PE

April 13, 2023

ALL-TECH Project No.: PE22400



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EXECUTIVE SUMMARY

ALL-TECH Environmental Services Limited was contracted by the PEI Department of Transportation & Infrastructure (DTI) to conduct a hazardous material assessment for Government House main residence as well as the site garage located at 1 Terry Fox Drive in Charlottetown, Prince Edward Island.

The purpose of the assessment was to identify hazardous materials within the building which may require safe handling procedures and disposal requirements in accordance with their applicable regulations prior to any planned work, renovations, or demolition and to assist in the Asbestos Management Plan (AMP) of any in place asbestos containing materials (ACM).

This report has been prepared to document the identities, usages and locations of any designated substances and hazardous materials identified within the building.

The on-site assessment was conducted in December 2022. During the assessment hazardous materials including asbestos and lead (paint) were sampled. In addition, lamp ballasts and electrical transformers were visually assessed for Polychlorinated Biphenyls (PCBs) and reported if identified.

Based on the findings from the Hazardous Materials Assessment, the following conclusions and recommendations are presented:

A summary of the Hazardous Materials identified within the building is provided below in Table A based on our assessment as well as safe handling requirements. Areas identified with visually same ACM materials are outlined in Appendix III Site drawing with ACM locations.

Assessment Summary of ACM conditions and action report is outlined in Appendix IV and shall be used in conjunction with PEI Department of Transportation & Infrastructure's Asbestos Management Plan (2023) and shall be subject to annual review.

Upon review of this report and based on any planned work, renovations or demolition, a full scope of work should be developed. This scope of work will be dependent upon which materials need to be disturbed or removed prior to the renovations. Should ACM not require disturbance or removal, then those identified shall remain in place and be part of the Management Plan.

TABLE A
Summary of Hazardous Materials
Government House

Hazardous Materials	Description / Comments	Safe Handling Requirements	Disposal Requirements
ASBESTOS	Vinyl sheet flooring	Licensed contractor to obtain work permit prior to handling from PEI Dept. of WCB/OSH Division and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I.	Regulatory approval from PEIELJ
	Drywall joint compounds		Disposal at approved facility such as EPWMF in Wellington, PEI
LEAD	<p align="center">Main Residence</p> <ul style="list-style-type: none"> - Green paint on exterior shutters - Grey paint on stairs to basement - White paint on wall of stairwell to basement - White paint on interior door trims <ul style="list-style-type: none"> - Blue wall paint in foyer - White wall paint in corridors - White door paint - White window trim paint 	<p align="center">TDG – manifest</p> <p>Trained personnel in the safe handling of lead coated surfaces and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I.</p>	<p>Regulatory approval from PEIELJ</p> <p>Additional analysis required for TCLP for disposal purposes, if required.</p>
MERCURY	mercury containing thermostats fluorescent lamp tubes (garage)	Do not break lamps or separate liquid mercury from components	Recycle and reclaim mercury from fluorescent lamps when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable Regulations.
SILICA	<p>Presumed in the following building components:</p> <p>Main Residence Concrete floors; stone; plasters; bricks and mortars.</p> <p>Garage Concrete floors</p>	Trained personnel in the safe handling of silica dust and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I.	Regulatory approval from PEIELJ

This summary should not be used alone. The report must be read in its entirety.



Larry Koughan, CET, CRSP
Project Principal
ALL-TECH Environmental Services Limited

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Appendix IV	Summary of ACM conditions report
Appendix V	Summary of other Hazardous Materials report

SITE / CLIENT INFORMATION

Project No:	PE22400
Assessment Date:	December 2022
Client Name:	PEI Department of Transportation & Infrastructure
Address:	Government House 1 Terry Fox Drive Charlottetown, PE

1 INTRODUCTION

ALL-TECH Environmental Services Limited was contracted by the PEI Department of Transportation & Infrastructure (DTI) to conduct a hazardous material assessment for Government House main residence as well as the site garage located at 1 Terry Fox Drive in Charlottetown, Prince Edward Island.

The purpose of the assessment was to identify hazardous materials within the building which may require safe handling procedures and disposal requirements in accordance with their applicable regulations prior to any planned work, renovations, or demolition and to assist in the Asbestos Management Plan (AMP) of any in place asbestos containing materials (ACM).

This report has been prepared to document the identities, usages and locations of any designated substances and hazardous materials identified within the building.

The on-site assessment was conducted in December 2022. During the assessment hazardous materials including asbestos and lead (paint) were sampled. In addition, lamp ballasts and electrical transformers were visually assessed for Polychlorinated Biphenyls (PCBs) and reported if identified.

1.1 SURVEY OBJECTIVES

The scope of the survey was to conduct a non-destructive assessment to identify asbestos, lead, and PCBs within the subject building as well as any other suspect hazardous materials if encountered. ALL-TECH inspected both interior and exterior spaces of the subject building to determine whether designated substances and hazardous materials were present. Representative sampling for suspect asbestos and lead paint materials was conducted as required based on industry standards and the consultant's experience.

1.2 BACKGROUND BUILDING INFORMATION

TABLE 1 BUILDING FRAMEWORK	
Building Use	Lieutenant Governor residence
Number of Floors	Main Residence – 2 floors plus basement Garage - 2
Total Area	Main Residence – 1,693 m ² Garage – 194 m ²
Year of Construction	Main Residence -1834 Garage - 1900
Structure	Wood
Exterior Cladding	Main Residence – wood shingle Garage - wood shingle
HVAC	Main Residence -N/A Garage - N/A
Roof	Main Residence -Asphalt shingle Garage – Asphalt shingle
Flooring	Main Residence -hardwood; vinyl sheet Garage - concrete
Interior Walls	Main Residence – plaster; drywall Garage - wood
Ceilings	Main Residence – plaster; drywall Garage - wood

2 REGULATIONS & GUIDELINES

A summary table (Table 2) is provided for the applicable regulations, policies, codes, and / or guidelines of hazardous materials assessed for the purpose of this report. This information was used as reference to assess suspect hazardous materials and make recommendations based on the findings.

TABLE 2 SUMMARY OF REGULATORY FRAMEWORK	
ASBESTOS	<ul style="list-style-type: none"> ▪ <i>Occupational Health and Safety Act</i> R.S.P.E.I. 1988, Cap. O-1.01 General Regulations – Part 49 (Including any amendments to May 2021). ▪ Guide to Asbestos Management, Workers Compensation Board of PEI. ▪ <i>Environmental Protection Act Chapter E-9 Waste Management Regulations</i>, Prince Edward Island ▪ Transportation of Dangerous Goods Act (TDGA)

LEAD	<ul style="list-style-type: none"> ▪ Hazardous Products Act ▪ Prince Edward Island Department of Environment, Labour and Justice (PEIELJ) ▪ Transportation of Dangerous Goods Act (TDGA) ▪ The Environmental Abatement Council of Canada (EACC) Lead Guideline for Construction, Renovation, Maintenance or Repair. ▪ Surface Coating Materials Regulations, SOR/2016-193, Canada Consumer Product Safety Act.
PCB's	<ul style="list-style-type: none"> ▪ Environmental Contaminants Act, Chlorophenyl Regulations ▪ Environment Canada – "Identification of Lamp Ballasts Containing PCB's," report EPS 2/CC/2 (revised) August 1991 ▪ PCB Regulations, SOR/2008-273, Canadian Environmental Protection Act.

2.1 ASBESTOS

Asbestos materials can be found in one of two forms: friable asbestos or a non-friable type. Friable asbestos material refers to material that when dry, can be crumbled, pulverized, or reduced to a powder by hand pressure. This type of asbestos material is hazardous due to its potential to become airborne, if damaged or disturbed.

Friable asbestos building products used that have been used in the past are sprayed acoustic and fire protection insulation which were installed on mechanical room ceilings, building structures, ceiling finishes, etc., and mechanical insulation on piping, tanks, boilers, vessels, etc. Some non-friable building products are vinyl acoustic floor tiles, gaskets, transite panels, piping, and shingles.

Non-friable materials if handled improperly during removal or renovations, such as cutting transite panels with an electrical tool, can cause high fiber releases.

Asbestos is classified as a hazardous material under the TDGA and must adhere to specific requirements for transfer including but not limited to waste transfer manifests and proper placards. All asbestos waste must be disposed of at an approved municipal solid waste disposal site. Recent changes from the Prince Edward Island's Department of Environment's Environmental Protection Act, Waste Resource Management Regulations have defined asbestos as "special waste" as asbestos containing materials containing 1% or greater by weight for the purpose of disposal.

All work should be carried out by personnel trained and licensed with the provincial department of the Workers Compensation Board / Occupational Health and Safety Division for asbestos abatement.

2.2 LEAD

Lead in paints is regulated under the Canadian Environmental Protection Act (CEPA) as published in Canada Gazette Part II. The lead content limit has been set to 600 mg/kg (0.06 percent by weight) for surface coating materials.

Any disturbance or removal of lead-based materials which may generate lead dust shall have to conform to the federal and provincial Occupational Health and Safety Act and Regulations. All work should be carried out by personnel trained in the safe handling of lead-based paint coatings and shall be trained in the use of respirators and be properly fit tested.

PEIELJ has established guidelines that restrict hazardous materials from municipal landfills and Construction and Demolition (C&D) waste disposal sites which potentially may migrate / leach into groundwater and cause adverse environmental impacts. Lead coated surfaces may leach from their base materials into soil and subsequent groundwater. PEIELJ has established guidelines that materials containing 1000 mg/kg or 0.1% lead by weight shall be classified as lead-based paints. If materials are found to be above this guideline and require removal and disposal, then the materials must undergo leachate testing to assess total concentrations which could potentially leach into the ground soil and groundwater. Presently provincial requirements for lead leachate testing shall not exceed 5 mg/L. Disposal criteria for lead containing paints are based on total and leachable concentrations are as follows:

- Materials with total lead concentrations below the applicable Total guidelines can be disposed of at any C&D disposal site.
- Materials with *total lead concentrations above* the applicable Total guidelines and *leachable lead concentrations below* the applicable Leachate guidelines must be disposed of at an approved municipal solid waste landfill that has a composite liner and leachate collection system (i.e., East Prince Waste Management Facility in Wellington, PEI). A waste generator permit must first be approved and obtained by PEIELJ.
- Materials with total and leachable lead concentrations above provincial guidelines must be transported to an approved hazardous waste disposal site.

Materials with leachable lead concentrations above provincial guidelines must be manifested as dangerous goods during transport under the federal TDGA. Hazardous materials that are being disposed of out of province must comply with Interprovincial Movement of Hazardous Waste Regulations under the Canadian Environmental Protection Act (CEPA).

2.3 POLYCHLORINATED BIPHENYLS (PCB's)

In 1976, the Canadian Environment Contaminants Act passed regulations which prohibited the use of PCBs in transformer equipment. Under the same Act, the Chlorophenyl Regulations No. 1, states that PCBs cannot be used as a constituent of electrical capacitors, electrical transformers and associated electrical equipment manufactured in or imported into Canada after July 1, 1980.

There is currently no regulatory requirement to remove in-use PCBs from service. However, should suspect PCB containing light ballasts be removed from service, they should be treated as PCB waste or if confirmed to contain PCB oil in excess of 0.5 kg.

3 METHODOLOGY

The scope of work for the survey was to visually identify controlled hazardous materials for the safe handling and disposal for the on-going management of any hazardous materials identified. Where visual identification of asbestos containing materials and lead based paints were suspected but unable to be determined, samples were collected and sent to an approved laboratory for analysis.

There was limited destructive testing of structural members (i.e., walls, flooring) during the assessment. Where accessible, areas above ceiling cavities and behind walls were visually assessed to identify potentially concealed hazardous materials.

3.1 ASBESTOS

Using standard bulk sampling methodologies, representative suspect asbestos containing materials were sampled from ceiling & wall finishes, floor coverings, located throughout the building. Samples were placed in sealed plastic bags, labelled and a chain of custody form completed to be forwarded to IATL Laboratory via courier for analysis.

The asbestos assessment involved a visual investigation of suspect materials for the presence of asbestos containing materials. If these materials were suspected to contain asbestos, a bulk sample was collected of the representative material to be analysed with Polarized Light Microscopy.

It should be noted that asbestos containing materials may be present behind unrevealed areas. During demolition of these materials, precautions should be taken such as the use of personal protective equipment in the event of exposing concealed asbestos materials. If suspect materials are revealed, have them tested immediately.

3.2 LEAD

During the assessment, suspect lead-based paints were sampled from surfaces as determined by the consultant. Where practical, all layers of paint were removed and placed in sealed plastic bags, labelled and a chain of custody form completed to be forwarded to IATL Laboratory via courier for analysis.

3.3 POLYCHLORINATED BIPHENYLS

During the assessment, suspect PCB containing light ballasts were examined for PCB identification or by recording serial numbers for reference. Ballasts were inspected and manufacturers name, date and serial numbers were recorded when visible. The manufacturers identification numbers were then compared to Environment Canada's "Identification of Lamp Ballasts Containing PCB's," Report EPS 2/CC/2 9(revised), August 1991.

It should be noted that the assessment did not include the sampling / testing or analysis of the suspect PCB containing materials.

4 ASSESSMENT FINDINGS

4.1 ASBESTOS

During the survey, the consultant collected individual bulk material samples of suspect ACMs within the structure. Laboratory analysis certificates are presented in Appendix I.

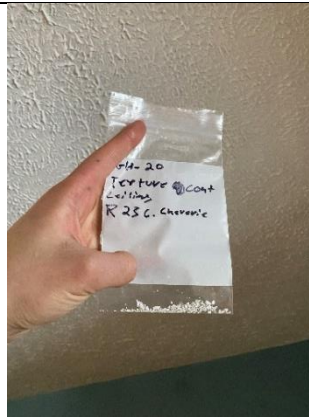
A total of thirty (30) bulk material samples were collected within the main residence building during the survey. Some of these samples such as tile floor coverings were separated and a total of forty-seven (47) samples were analyzed. Of the 47 samples analyzed, four (4) were found to be asbestos containing.

No suspect asbestos containing materials were encountered within the garage.

Individual items sampled and ACM materials identified are itemized in each sub-section below.

4.1.1 Texture Coat Finishes

Texture coat ceiling finish was observed and sampled in Room 236. The material was reported as non-asbestos containing.



4.1.2 Pipe Insulation

Straight runs of pipe insulation noted as fiberglass insulation. No parging cement was noted or reported during the assessment.



4.1.3 Duct Insulation

Flexible duct insulation observed in attic. No asbestos suspect materials considered for sampling.



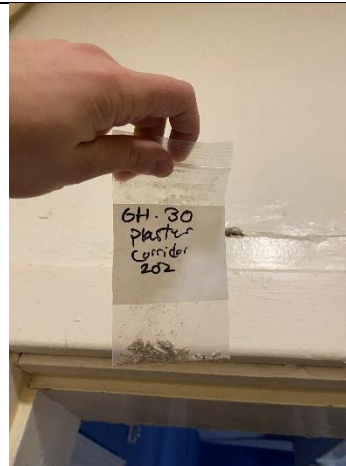
4.1.4 Mechanical Equipment Insulation

Modern boiler system in place. No suspect mechanical insulation was observed or reported.



4.1.5 Plaster

Plaster walls and ceilings were noted and sampled in various random locations throughout the building. Representative sampling was completed on each floor of the building. A total of twelve (12) plaster samples were collected during the assessment. None of the samples were found to be asbestos containing.

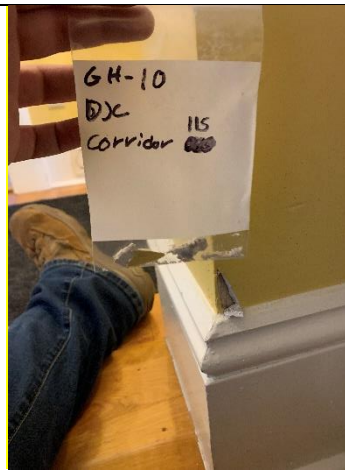


4.1.6 Drywall Joint Compound

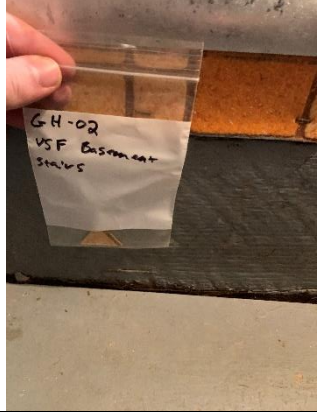
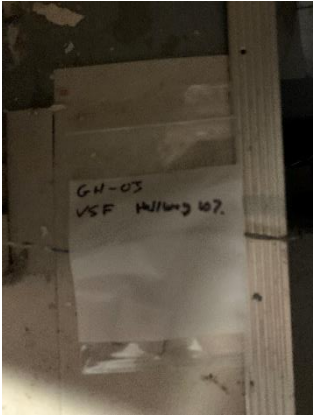
Drywall joint compound walls and ceilings were noted and sampled in various random locations throughout the main residence building.

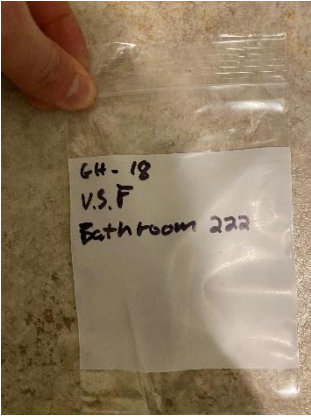
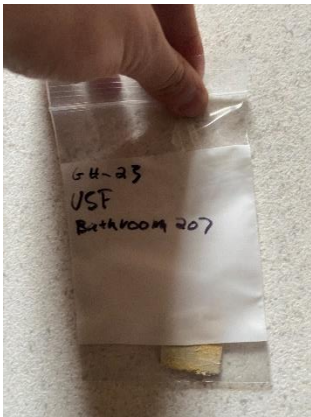
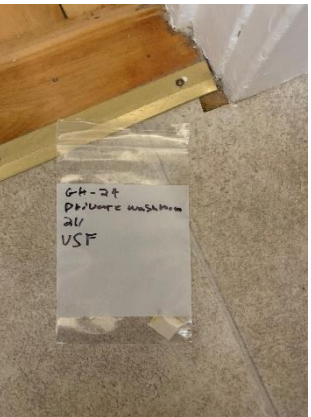
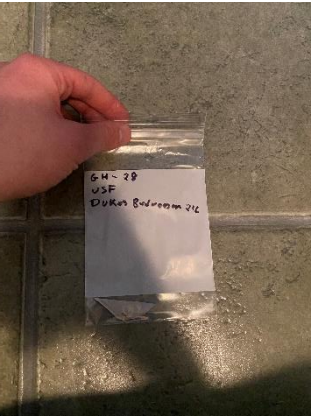
Representative sampling was completed within the building.

A total of eleven (11) joint compound samples were collected during the assessment. **Three (3) of the samples were found to contain 1.2% chrysotile asbestos.**

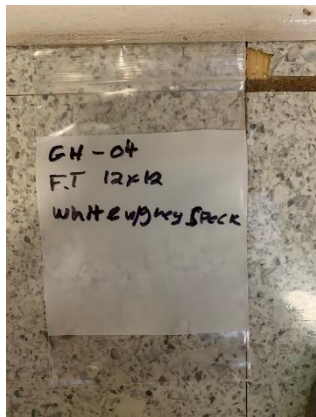


4.1.7 Vinyl Sheet Flooring

Sample No.:	Flooring Description	Location	Asbestos Type / Content (%)	Photo
GH-02	Tan vinyl sheet flooring	Basement stairs	15% Chrysotile	
GH-03	Off-white vinyl sheet flooring with yellow mastic	Corridor 107	None Detected in flooring or mastic.	

GH-18	Off-white vinyl sheet flooring	Bathroom 222	None Detected	
GH-23	White vinyl sheet flooring	Bathroom 206	None Detected	
GH-24	Off-white vinyl sheet flooring	Bathroom 211	None Detected	
GH-18	Green vinyl sheet flooring with white mastic	Bedroom 216	None Detected in flooring or mastic	

4.1.8 Vinyl Floor Tiles

Sample No.:	Flooring Description	Location	Asbestos Type / Content (%)	Photo
GH-04	12" x 12" white with grey speckles floor tile with yellow mastic	Corridor 106	None Detected in floor tile or mastic	

4.1.9 Ceiling Tiles

No inlay acoustic ceiling tiles were observed within the main residence.

One area was noted with fixed 12" ceiling tiles in the entry area. The material was sampled and reported as non-asbestos containing tile.



4.1.10 Other Materials

Attic insulation visibly identified as fiberglass insulation.

Water damage roof membrane sheathing with visible mould staining.



4.1.11 Excluded Asbestos Materials

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

- Roofing felts and tar

4.2 LEAD-BASED PAINTS

The following is a breakdown of material sample collection for each building based on suspect materials encountered for each:

Main Residence

A total of seventeen (17) painted surface coatings were sampled within the main residence building and sent to the laboratory for analysis for lead in paint.

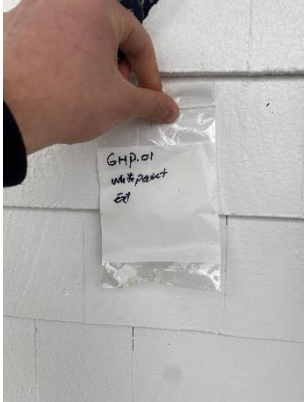

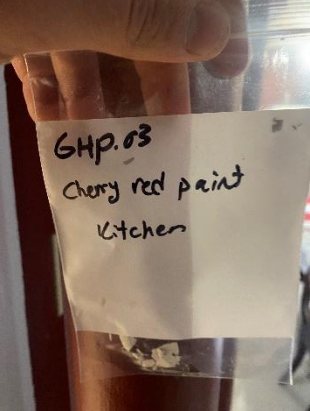
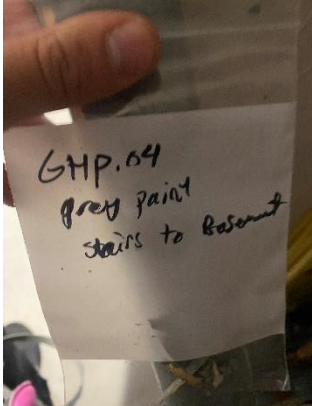
Based on the assessment findings, eight (8) of the paint layers sampled exceeded CEPA guidelines of 0.06 percent by weight for surface coating materials. Exceedances are noted in bold red in table below.

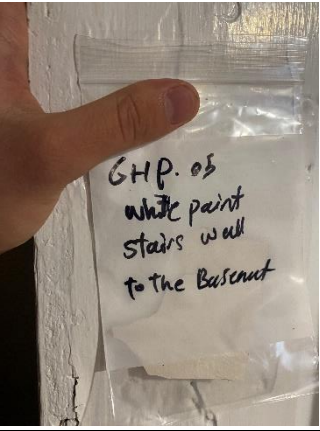
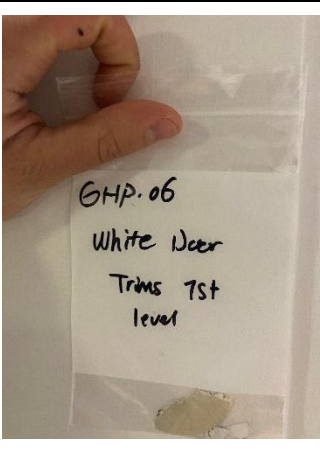
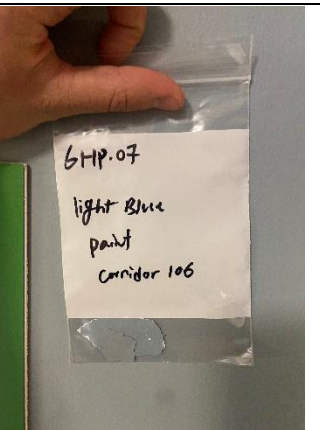

Garage

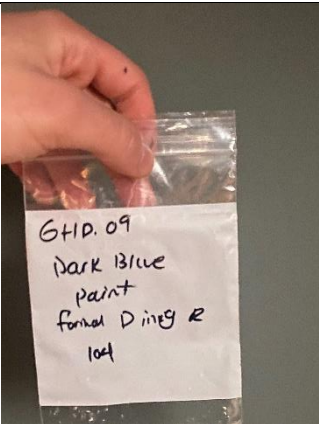
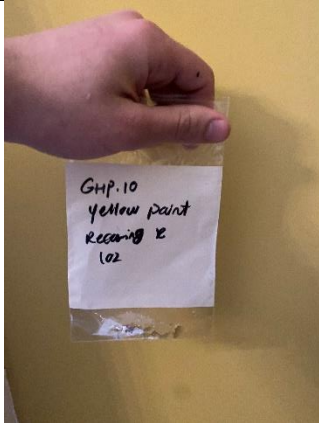
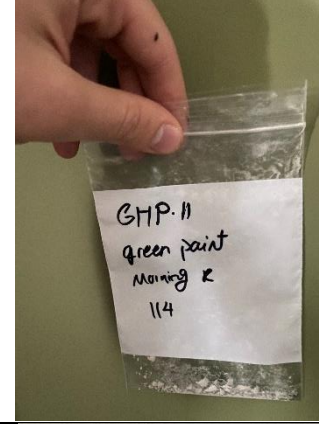
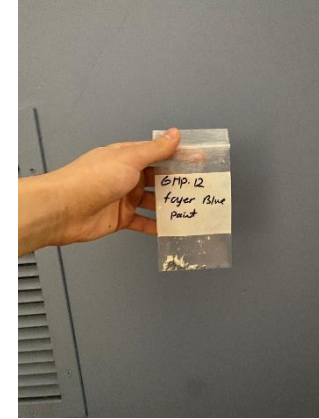
A total of three (3) painted surface coatings were sampled within the garage building and sent to the laboratory for analysis for lead in paint.


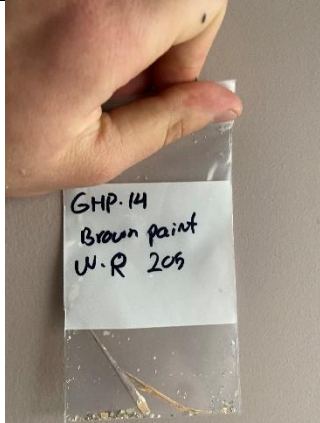

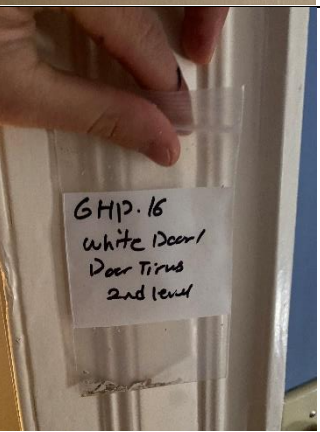
Based on the assessment findings, none (0) of the paint layers sampled exceeded CEPA guidelines of 0.06 percent by weight for surface coating materials.

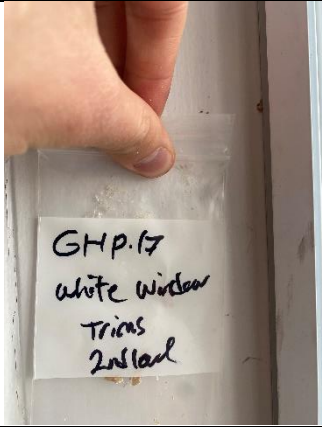
Laboratory analysis certificate is presented in Appendix II.

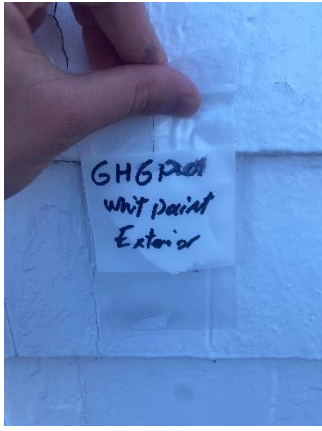
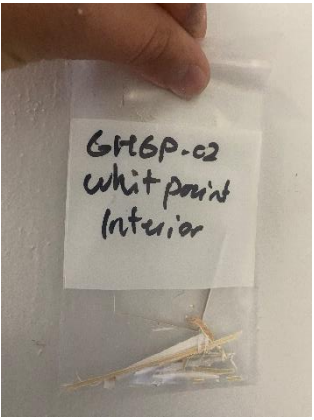
Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Main Residence				
GHP-01	White paint / Wood siding	Exterior	0.058	
GHP-02	Green paint / Exterior shutters	Exterior	0.42	
GHP-03	Cherry red paint / Wood	Kitchen	0.012	
GHP-04	Grey paint / Wood trim	Stairs to basement	2.3	


GHP-05	White paint / Wall	Stairs to basement	0.2	
GHP-06	White paint / Wood door trim	Main floor	2.4	
GHP-07	Light blue paint / Wall surface	Corridor 106	< 0.0068	
GHP-08	Light brown / Wall surface	Living room 105	< 0.0065	

GHP-09	Dark blue paint / Wall surface	Dining room 104	0.0085	
GHP-10	Yellow paint / Wall surface	Room 102	< 0.0067	
GHP-11	Green paint / Wall surface	Morning room 119	< 0.0080	
GHP-12	Blue paint / Wall surface	Foyer	0.15	

GHP-13	White paint / Wall surface	Corridor 202	0.22	
GHP-14	Brown paint / Wall surface	Washroom 205	0.036	
GHP-15	Light orange paint / Wall surface	Bedroom 207	< 0.011	
GHP-16	White paint / Wood door trim	Upper level	19	

GHP-17	White paint / Wood window trim	Upper level	10	
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Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Garage				
GHGP-01	White paint / Exterior wood siding	Exterior	0.031	
GHGP-02	White paint / Interior walls	Main area	0.047	

GHGP-03	Light blue paint / Door trim	Main area	0.038	
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4.3 POLYCHLORINATED BIPHENYLS (PCB's)

Suspect fluorescent light fixtures were not observed or reported within the main residence. Lights present within the buildings were noted as incandescent lighting without lamp ballasts. Through observations it was determined that PCB containing lamp ballasts are not present.

4.3.1 Lighting Lamp Ballasts

<p>Limited fluorescent light fixtures observed in garage. Philips lamp ballasts marked as non-PCB's.</p>		
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4.3.2 Transformers

Electrical transformers were not found or reported during the assessment.

4.4 SILICA

Crystalline silica is a presumed component of the following materials:

Main Residence

Concrete floors; stone; plasters; bricks and mortars



Photo 1 – Concrete floors / stone

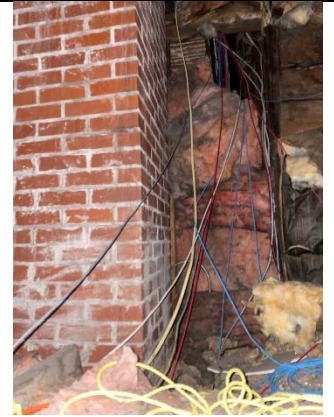


Photo 2 – Bricks / mortar

Garage

Concrete floors



Photo 3 – Concrete floors

4.5 MERCURY

4.5.1 Lighting

Mercury vapour is present in fluorescent lamp tubes in garage.

4.5.2 Mercury Containing Devices

Mercury containing thermostats were observed within the main residence and garage buildings.



Photo 1 – Main residence



Photo 2 - Garage

5 SUMMARY OF HAZARDOUS MATERIALS

A summary of the Hazardous Materials identified within the building is provided below in Table 3 based on our assessment as well as safe handling requirements. Areas identified with visually same ACM materials are outlined in Appendix III Site drawing with ACM locations.

Assessment Summary of ACM conditions and action report is outlined in Appendix IV and shall be used in conjunction with PEI Department of Transportation & Infrastructure's Asbestos Management Plan (2023) and shall be subject to annual review.

Upon review of this report and based on any planned work, renovations or demolition, a full scope of work should be developed. This scope of work will be dependent upon which materials need to be disturbed or removed prior to the renovations. Should ACM not require disturbance or removal, then those identified shall remain in place and be part of the Management Plan.

TABLE 3 Summary of Hazardous Materials Government House			
Hazardous Materials	Description / Comments	Safe Handling Requirements	Disposal Requirements
ASBESTOS	Vinyl sheet flooring	Licensed contractor to obtain work permit prior to handling from PEI Dept. of WCB/OSH Division and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I.	Regulatory approval from PEIELJ
	Drywall joint compounds		Disposal at approved facility such as EPWMF in Wellington, PEI
LEAD	Main Residence - Green paint on exterior shutters - Grey paint on stairs to basement - White paint on wall of stairwell to basement - White paint on interior door trims - Blue wall paint in foyer - White wall paint in corridors - White door paint - White window trim paint	TDG – manifest Trained personnel in the safe handling of lead coated surfaces and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I.	Regulatory approval from PEIELJ Additional analysis required for TCLP for disposal purposes, if required.
MERCURY	mercury containing thermostats fluorescent lamp tubes (garage)	Do not break lamps or separate liquid mercury from components	Recycle and reclaim mercury from fluorescent lamps when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable Regulations.

<p>SILICA</p>	<p>Presumed in the following building components:</p> <p>Main Residence Concrete floors; stone; plasters; bricks and mortars.</p> <p>Garage Concrete floors</p>	<p>Trained personnel in the safe handling of silica dust and all other pertinent sections of the <i>Occupational Health and Safety Act R.S.P.E.I</i></p>	<p>Regulatory approval from PEIELJ</p>
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6 ON-GOING MANAGEMENT & MAINTENANCE

The following recommendations are made regarding on-going management and maintenance work involving the hazardous materials identified.

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include destructive testing (e.g., coring and/or removal of building finishes and components), and other materials not previously tested (e.g., roofing materials).

6.1 Asbestos

Ensure policies and procedures outlined in the buildings Asbestos Management Plan (AMP) are followed when conducting asbestos-related work at this facility.

Perform a re-assessment of asbestos-containing materials (ACM) on an annual basis. The next reassessment of ACM should be performed prior to April 2024 to remain in compliance.

Remove ACM prior to alteration or maintenance work if ACM may be disturbed by the work. Follow appropriate asbestos precautions for the classification of work being performed.

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

Update the asbestos inventory upon completion of the abatement and removal of asbestos-containing materials and any other relevant findings.

6.2 Lead

For lead-containing or lead-based paints (i.e., greater than the CEPA guidelines of 600 mg/kg (0.06 percent by weight) for surface coating materials, work procedures, engineering controls and personal protective equipment should be assessed on a site-specific basis to comply with Occupational Health and Safety regulations and Lead guidelines.

Dispose of painted materials exceeding the criteria for leachable lead as hazardous waste.

6.3 Mercury

Do not break lamps or separate liquid mercury from components. Recycle and reclaim mercury from fluorescent lamps and thermostats when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable regulations.

6.4 Silica

Disturbance of silica-containing products during maintenance activities 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.

7 DISCLAIMER

The recommendations detailed in this report were carried out in a manner consistent with the level of care and skill normally exercised by reasonable members of the environmental and industrial hygiene consulting profession currently practicing under similar conditions in the area.

In preparing this report, ALL-TECH Environmental Services Limited relied on information supplied by others, including independent laboratories, and testing services. Except as expressly set out in this report, we have not made any independent verification of such information.

The recommendations in this report have been made in the context of existing industry accepted guidelines which were in place at the date of this report.

We trust this information is beneficial for assisting you in better understanding the process that has been carried out as well as the benefits and limitations of air sample results.

Should you have any questions or concerns pertaining to this report, please contact the undersigned directly.



Larry G. Koughan, CET, CRSP
Senior Project Consultant



APPENDIX I

Laboratory Certificate of Analysis – Asbestos PLM Samples

Main Residence

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited 20 Duke St., Suite 109 Bedford NS B4A 2Z5	Report Date: 1/6/2023 Report No.: 675577 - PLM Project: Government House (Main Residence) Project No.: PE22400
Client: ALL131	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7547040 Client No.: GH-01	Analyst Observation: Off-White Joint Compound Client Description: Drywall Joint Compound	Location: Basement Stairs Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547040(L2) Client No.: GH-01	Analyst Observation: Beige Plaster Client Description: Drywall Joint Compound	Location: Basement Stairs Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98

Lab No.: 7547040(L3) Client No.: GH-01	Analyst Observation: Off-White Wallboard Client Description: Drywall Joint Compound	Location: Basement Stairs Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 98 Cellulose	<u>Percent Non-Fibrous Material:</u> 2

Lab No.: 7547041 Client No.: GH-02	Analyst Observation: Tan Vinyl Sheet Flooring Client Description: Vinyl Sheet Flooring	Location: Basement Stairs Facility:
<u>Percent Asbestos:</u> <i>15 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 7 Cellulose	<u>Percent Non-Fibrous Material:</u> 78

Lab No.: 7547042 Client No.: GH-03	Analyst Observation: Grey/Off-White Vinyl Sheet Flooring Client Description: Vinyl Sheet Flooring	Location: Hallway 107 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547043 Client No.: GH-04	Analyst Observation: Off-White Floor Tile Client Description: 12x12 White W/Grey Speckles Floor Tile	Location: Corridor 106 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/30/2022
Date Analyzed: 01/06/2023
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director


CERTIFICATE OF ANALYSIS

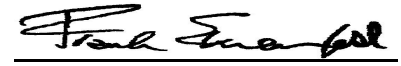
Client: ALL-TECH Environmental Services Limited 20 Duke St., Suite 109 Bedford NS B4A 2Z5	Report Date: 1/6/2023 Report No.: 675577 - PLM Project: Government House (Main Residence) Project No.: PE22400
Client: ALL131	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7547043(L2) Client No.: GH-04	Analyst Observation: Yellow Mastic Client Description: 12x12 White W/Grey Speckles Floor Tile	Location: Corridor 106 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98
Lab No.: 7547044 Client No.: GH-05	Analyst Observation: Off-White Joint Compound Client Description: Drywall Joint Compound	Location: Corridor 106 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7547045 Client No.: GH-06	Analyst Observation: Off-White Joint Compound Client Description: Drywall Joint Compound	Location: Room 105 Private Living Rm Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7547046 Client No.: GH-07	Analyst Observation: Tan Plaster Client Description: Plaster	Location: Formal Dining Room 104 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7547047 Client No.: GH-08	Analyst Observation: Tan Plaster Client Description: Wall Plaster	Location: Room 102 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7547047(L2) Client No.: GH-08	Analyst Observation: Lt Tan Plaster Client Description: Wall Plaster	Location: Room 102 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Date Received: 12/30/2022
Date Analyzed: 01/06/2023
Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited 20 Duke St., Suite 109 Bedford NS B4A 2Z5	Report Date: 1/6/2023 Report No.: 675577 - PLM Project: Government House (Main Residence) Project No.: PE22400
Client: ALL131	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7547048 Client No.: GH-09	Analyst Observation: Tan Plaster Client Description: Wall Plaster	Location: Foyer Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98

Lab No.: 7547048(L2) Client No.: GH-09	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: Foyer Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547049 Client No.: GH-10	Analyst Observation: Off-White Drywall Client Description: Drywall Joint Compound	Location: Corridor 115 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 98

Lab No.: 7547049(L2) Client No.: GH-10	Analyst Observation: Off-White Joint Compound Client Description: Drywall Joint Compound	Location: Corridor 115 Facility:
<u>Percent Asbestos:</u> PC 1.2 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.8

Lab No.: 7547050 Client No.: GH-11	Analyst Observation: Tan Plaster Client Description: Wall Plaster	Location: Morning Room 119 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99

Lab No.: 7547050(L2) Client No.: GH-11	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: Morning Room 119 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/30/2022
Date Analyzed: 01/06/2023
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/6/2023
Report No.: 675577 - PLM
Project: Government House (Main Residence)
Project No.: PE22400

Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7547051 **Analyst Observation:** Beige Ceiling Tile **Location:** Entry 109
Client No.: GH-12 **Client Description:** 12x12 Ceiling Tile **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 99 Cellulose 1

Lab No.: 7547052 **Analyst Observation:** White Joint Compound **Location:** Entry 109
Client No.: GH-13 **Client Description:** Drywall Joint Compound **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
PC 1.2 Chrysotile None Detected 98.8


Lab No.: 7547053 **Analyst Observation:** Off-White Joint Compound **Location:** Kitchen 118
Client No.: GH-14 **Client Description:** Drywall Joint Compound **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100

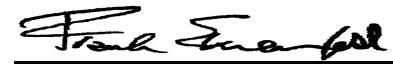
Lab No.: 7547054 **Analyst Observation:** Tan Plaster **Location:** Corridor 107
Client No.: GH-15 **Client Description:** Ceiling Plaster **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 1 Cellulose 99

Lab No.: 7547054(L2) **Analyst Observation:** White/Off-White Plaster **Location:** Corridor 107
Client No.: GH-15 **Client Description:** Ceiling Plaster **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100

Lab No.: 7547055 **Analyst Observation:** Tan Plaster **Location:** Upstairs-Main Area
Client No.: GH-16 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 1 Cellulose 99

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/30/2022
Date Analyzed: 01/06/2023
Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited 20 Duke St., Suite 109 Bedford NS B4A 2Z5	Report Date: 1/6/2023 Report No.: 675577 - PLM Project: Government House (Main Residence) Project No.: PE22400
Client: ALL131	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7547055(L2) Client No.: GH-16	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: Upstairs-Main Area Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547056 Client No.: GH-17	Analyst Observation: Off-White Joint Compound Client Description: Drywall Joint Compound	Location: Corridor 219 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 7547057 Client No.: GH-18	Analyst Observation: Off-White Vinyl Sheet Flooring Client Description: Vinyl Sheet Flooring	Location: Bathroom 222 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 13 Cellulose 2 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 85

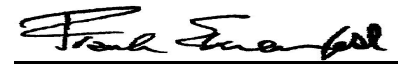
Lab No.: 7547058 Client No.: GH-19	Analyst Observation: Off-White Joint Compound Client Description: Drywall Joint Compound	Location: Private Bedroom 221 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547059 Client No.: GH-20	Analyst Observation: White Ceiling Texture Client Description: Ceiling Texture Coat	Location: Room 203 Cheverie Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547060 Client No.: GH-21	Analyst Observation: White Joint Compound Client Description: Drywall Joint Compound	Location: Washroom 205 Facility:
<u>Percent Asbestos:</u> <i>PC 1.2 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.8

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/30/2022
Date Analyzed: 01/06/2023
Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited 20 Duke St., Suite 109 Bedford NS B4A 2Z5	Report Date: 1/6/2023 Report No.: 675577 - PLM Project: Government House (Main Residence) Project No.: PE22400
Client: ALL131	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7547061 Client No.: GH-22	Analyst Observation: Tan Plaster Client Description: Wall Plaster	Location: Twin Bedroom 207 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99

Lab No.: 7547061(L2) Client No.: GH-22	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: Twin Bedroom 207 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 7547062 Client No.: GH-23	Analyst Observation: White Vinyl Sheet Flooring Client Description: Vinyl Sheet Flooring	Location: Bathroom 206 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 12 Cellulose 1 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 87

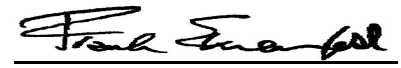
Lab No.: 7547063 Client No.: GH-24	Analyst Observation: White Vinyl Sheet Flooring Client Description: Vinyl Sheet Flooring	Location: Private Washroom 211 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547063(L2) Client No.: GH-24	Analyst Observation: Yellow Mastic Client Description: Vinyl Sheet Flooring	Location: Private Washroom 211 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547064 Client No.: GH-25	Analyst Observation: Tan Plaster Client Description: Wall Plaster	Location: Bedroom 214 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/30/2022
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Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited 20 Duke St., Suite 109 Bedford NS B4A 2Z5	Report Date: 1/6/2023 Report No.: 675577 - PLM Project: Government House (Main Residence) Project No.: PE22400
Client: ALL131	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7547064(L2) Client No.: GH-25	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: Bedroom 214 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547065 Client No.: GH-26	Analyst Observation: Off-White Joint Compound Client Description: Drywall Joint Compound	Location: Washroom 213 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547065(L2) Client No.: GH-26	Analyst Observation: Tan Plaster Client Description: Drywall Joint Compound	Location: Washroom 213 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99

Lab No.: 7547065(L3) Client No.: GH-26	Analyst Observation: White Plaster Client Description: Drywall Joint Compound	Location: Washroom 213 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547066 Client No.: GH-27	Analyst Observation: Off-White Joint Compound Client Description: Drywall Joint Compound	Location: Dukes Bedroom 216 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547066(L2) Client No.: GH-27	Analyst Observation: White Plaster Client Description: Drywall Joint Compound	Location: Dukes Bedroom 216 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/30/2022
Date Analyzed: 01/06/2023
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited 20 Duke St., Suite 109 Bedford NS B4A 2Z5	Report Date: 1/6/2023 Report No.: 675577 - PLM Project: Government House (Main Residence) Project No.: PE22400
Client: ALL131	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7547067 Client No.: GH-28	Analyst Observation: Green/Off-White Vinyl Sheet Flooring Client Description: Vinyl Sheet Flooring	Location: Dukes Bedroom 216 Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 13 Cellulose 1 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 86


Lab No.: 7547067(L2) Client No.: GH-28	Analyst Observation: Off-White Mastic Client Description: Vinyl Sheet Flooring	Location: Dukes Bedroom 216 Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

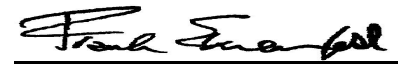
Lab No.: 7547068 Client No.: GH-29	Analyst Observation: Tan Plaster Client Description: Plaster Wall	Location: Sitting Room 215 Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99

Lab No.: 7547068(L2) Client No.: GH-29	Analyst Observation: White Plaster Client Description: Plaster Wall	Location: Sitting Room 215 Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7547069 Client No.: GH-30	Analyst Observation: Tan/Off-White Plaster Client Description: Plaster Wall	Location: Corridor 202 Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/30/2022
Date Analyzed: 01/06/2023
Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/6/2023
Report No.: 675577 - PLM
Project: Government House (Main Residence)
Project No.: PE22400

Client: ALL131

Appendix to Analytical Report

Customer Contact:

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: Semih Kocahasan

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Bulk Building Materials

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

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This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/6/2023
Report No.: 675577 - PLM
Project: Government House (Main Residence)
Project No.: PE22400

Client: ALL131

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/6/2023
Report No.: 675577 - PLM
Project: Government House (Main Residence)
Project No.: PE22400

Client: ALL131

2) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other than SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

APPENDIX II

Laboratory Certificate of Analysis – Lead Paint Samples

Main Residence

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/9/2023
Report No.: 675558 - Lead Paint
Project: Government House (Main Residence)
Project No.: PE22400

Client: ALL131

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7546803 **Description:** White Paint **Result (% by Weight):** 0.058
Client No.: GHP-01 **Location:** Exterior **Result (ppm):** 580
Comments:

Lab No.: 7546804 **Description:** Green Paint **Result (% by Weight):** 0.42
Client No.: GHP-02 **Location:** Exterior Windows **Result (ppm):** 4200
Comments: * **

Lab No.: 7546805 **Description:** Cherry Red Paint **Result (% by Weight):** 0.012
Client No.: GHP-03 **Location:** Kitchen **Result (ppm):** 120
Comments:

Lab No.: 7546806 **Description:** Grey Paint **Result (% by Weight):** 2.3
Client No.: GHP-04 **Location:** Stairs To The Basement **Result (ppm):** 23000
Comments: ***

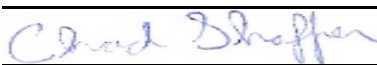
Lab No.: 7546807 **Description:** White Paint **Result (% by Weight):** 0.20
Client No.: GHP-05 **Location:** Stairwell To The Basement **Result (ppm):** 2000
Comments: ***


Lab No.: 7546808 **Description:** White Door Trims **Result (% by Weight):** 2.4
Client No.: GHP-06 **Location:** 1st Level **Result (ppm):** 24000
Comments:

Lab No.: 7546809 **Description:** Lt Blue Paint **Result (% by Weight):** <0.0068
Client No.: GHP-07 **Location:** Corridor 106 **Result (ppm):** <68
Comments:

Lab No.: 7546810 **Description:** Lt Brown Paint **Result (% by Weight):** <0.0065
Client No.: GHP-08 **Location:** Private Library-Rm 106 **Result (ppm):** <65
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/30/2022
Date Analyzed: 01/09/2023
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

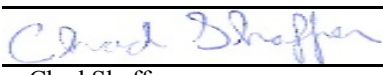
Client: ALL131

Report Date: 1/9/2023
Report No.: 675558 - Lead Paint
Project: Government House (Main Residence)
Project No.: PE22400


LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7546811 Client No.: GHP-09	Description: Dk Blue Paint Location: Formal Dining Rm 104	Result (% by Weight): 0.0085 Result (ppm): 85 Comments:
Lab No.: 7546812 Client No.: GHP-10	Description: Yellow Paint Location: Rm 102	Result (% by Weight): <0.0067 Result (ppm): <67 Comments: ***
Lab No.: 7546813 Client No.: GHP-11	Description: Green Paint Location: Morning Rm 114	Result (% by Weight): <0.0080 Result (ppm): <80 Comments: ***
Lab No.: 7546814 Client No.: GHP-12	Description: Blue Paint Location: Foyer	Result (% by Weight): 0.15 Result (ppm): 1500 Comments: ***
Lab No.: 7546815 Client No.: GHP-13	Description: White Wall Paint Location: Corridor 202	Result (% by Weight): 0.22 Result (ppm): 2200 Comments: ***
Lab No.: 7546816 Client No.: GHP-14	Description: Brown Paint Location: Washroom 205	Result (% by Weight): 0.036 Result (ppm): 360 Comments: ***
Lab No.: 7546817 Client No.: GHP-15	Description: Lt Orange Paint Location: Twin Bedroom Rm 207	Result (% by Weight): <0.011 Result (ppm): <110 Comments: * ***
Lab No.: 7546818 Client No.: GHP-16	Description: White Door Location: 2nd Level	Result (% by Weight): 19 Result (ppm): 190000 Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/30/2022
Date Analyzed: 01/09/2023
Signature: 
Analyst: Chad Shaffer

Approved By:


Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/9/2023
Report No.: 675558 - Lead Paint
Project: Government House (Main Residence)
Project No.: PE22400

Client: ALL131

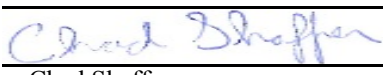
LEAD PAINT SAMPLE ANALYSIS SUMMARY


Lab No.: 7546819
Client No.: GHP-17

Description: White Widow Trims
Location: 2nd Level

Result (% by Weight): 10
Result (ppm): 100000
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 12/30/2022
Date Analyzed: 01/09/2023
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/9/2023
Report No.: 675558 - Lead Paint
Project: Government House (Main Residence)
Project No.: PE22400

Client: ALL131

Appendix to Analytical Report:

Customer Contact:

Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: Semih Kocahasan

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Paint

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

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Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:

- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188

- NYSDOH-ELAP No. 11021

This report meets the standards set forth in the EPA's National Lead Laboratory Accreditation Program (NLLAP) through the Laboratory Quality System Requirements (LQSR) Revision 3.0 November 5, 2007. All Environmental Lead Proficiency Analytical Testing (ELPAT) is through the AIHA-PAT established program.

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B.

Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.

LSD=0.2 ppm MDL=0.006% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

Disclaimers / Qualifiers:

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/9/2023
Report No.: 675558 - Lead Paint
Project: Government House (Main Residence)
Project No.: PE22400

Client: ALL131

- * Insufficient sample provided to perform QC reanalysis (<200 mg)
- ** Not enough sample provided to analyze (<50 mg)
- *** Matrix / substrate interference possible.

< less than sign, signifies none-detected below the empirical value based upon sub-sampled mass. This is often below the Reporting Limit (see above).

Garage

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 12/5/2022
Report No.: 673349 - Lead Paint
Project: Government House Garage
Project No.: PE22400

Client: ALL131

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7530859
Client No.: GHGP-01

Description: White Paint
Location: Exterior

Result (% by Weight): 0.031
Result (ppm): 310
Comments:

Lab No.: 7530860
Client No.: GHGP-02

Description: White Paint
Location: Interior

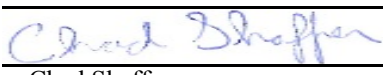
Result (% by Weight): 0.047
Result (ppm): 470
Comments: ***


Lab No.: 7530861
Client No.: GHGP-03

Description: Lt Blue Paint
Location: Door Trim

Result (% by Weight): 0.038
Result (ppm): 380
Comments: ***

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/28/2022
Date Analyzed: 12/05/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 12/5/2022
Report No.: 673349 - Lead Paint
Project: Government House Garage
Project No.: PE22400

Client: ALL131

Appendix to Analytical Report:

Customer Contact:

Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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iATL Account Representative: Semih Kocahasan

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Sample Matrix: Paint

Exceptions Noted: See Following Pages

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Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B.

Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.

LSD=0.2 ppm MDL=0.006% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 12/5/2022
Report No.: 673349 - Lead Paint
Project: Government House Garage
Project No.: PE22400

Client: ALL131

- * Insufficient sample provided to perform QC reanalysis (<200 mg)
- ** Not enough sample provided to analyze (<50 mg)
- *** Matrix / substrate interference possible.

< less than sign, signifies none-detected below the empirical value based upon sub-sampled mass. This is often below the Reporting Limit (see above).

APPENDIX III

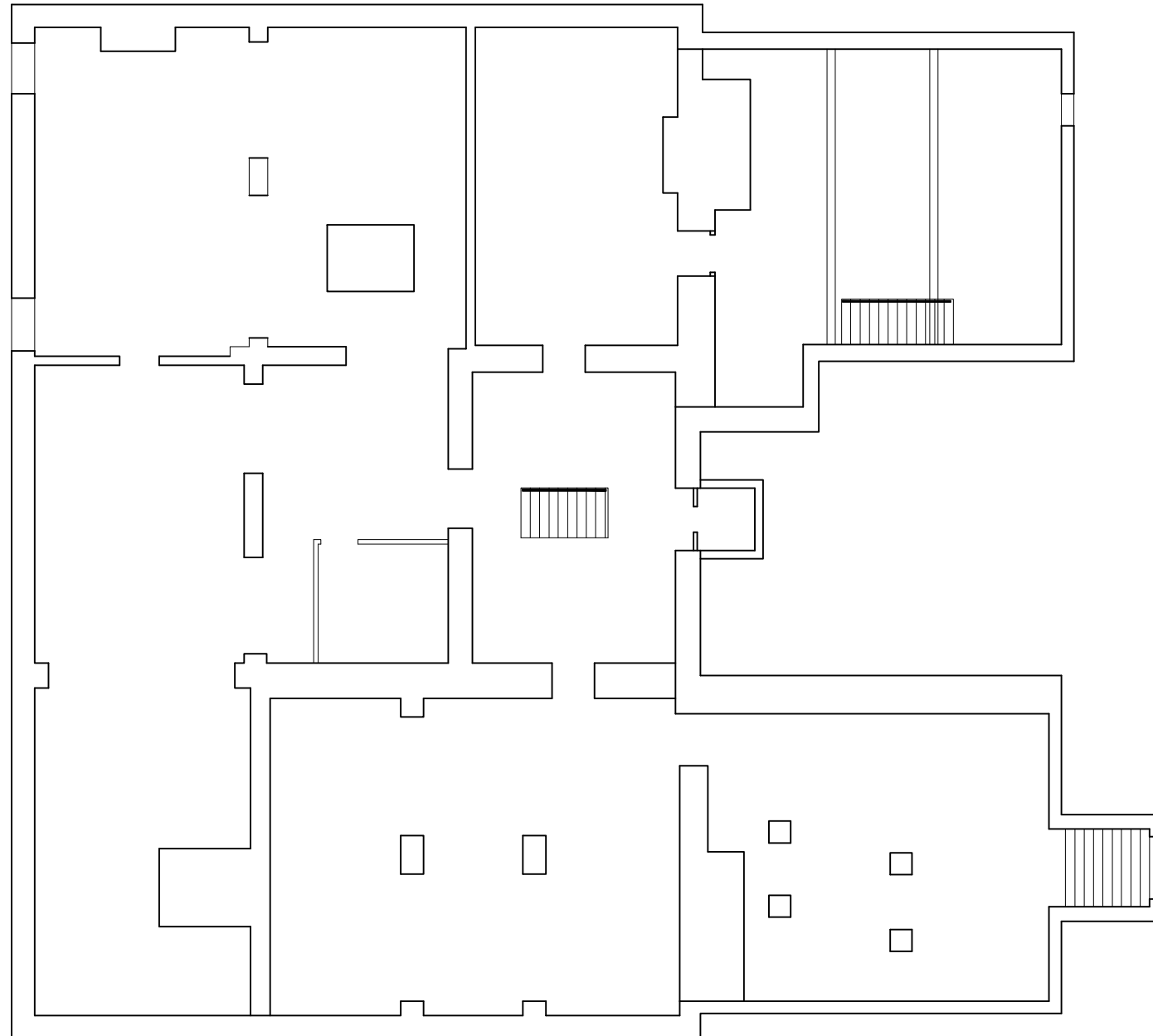
Site Drawings with sample locations and ACM locations

ASBESTOS SURVEY BY



ASBESTOS LEGEND

- = CEILING
- = FLOOR
- = CEILING AND FLOOR
- = UNSURVEYED AREA
- = APPLIANCE
- = MECHANICAL
- = PIPE MATERIAL
- = DUCT WORK
- = ELECTRICAL
- = ACM WALL
- = LEAD PAINT WALL
- = SAMPLE NUMBER ASBESTOS DETECTED
- = SAMPLE NUMBER NO ASBESTOS DETECTED
- = SAMPLE NUMBER LEAD DETECTED
- = SAMPLE NUMBER NO LEAD DETECTED



project

PE22400

GOVERNMENT HOUSE
PEI

Drawing design

GOVERNMENT BUILDING
BASEMENT FLOOR

Design/LK concu

Date FEB_2023

Drawn AJH design

Date MAR_2023

NOTE:
THIS DRAWING SHOULD BE USED
FOR REFERENCE PURPOSES ONLY
REFER TO THE ASBESTOS AND
LEAD SURVEYS FOR THE ROOM BY
ROOM DATE FOR SPECIFIC DETAILS

Scale 1 OF 3

Scale NOT TO SCALE

Revisions Date

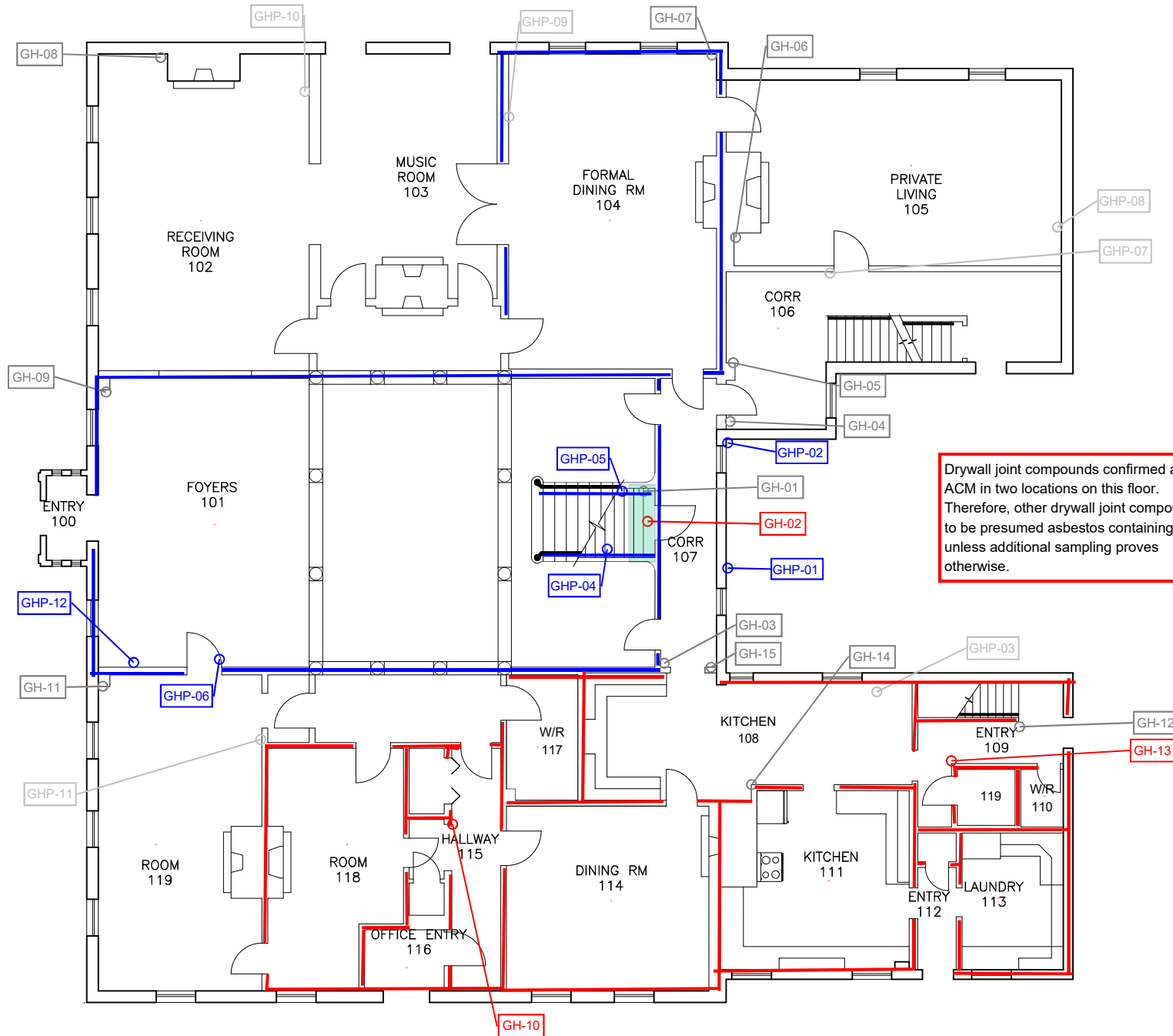
ASBESTOS SURVEY BY



ASBESTOS LEGEND

- = CEILING
- = FLOOR
- = CEILING AND FLOOR
- = UNSURVEYED AREA
- = APPLIANCE
- = MECHANICAL
- = PIPE MATERIAL
- = DUCT WORK
- = ELECTRICAL
- = ACM WALL
- = LEAD PAINT WALL
- = SAMPLE NUMBER ASBESTOS DETECTED
- = SAMPLE NUMBER NO ASBESTOS DETECTED
- = SAMPLE NUMBER LEAD DETECTED
- = SAMPLE NUMBER NO LEAD DETECTED

Drywall joint compounds confirmed as ACM in two locations on this floor. Therefore, other drywall joint compounds to be presumed asbestos containing unless additional sampling proves otherwise.



project

PE22400

GOVERNMENT HOUSE
PEI

drawing

GOVERNMENT BUILDING
MAIN FLOOR

designer

DATE FEB_2023

Drawn AJH

DATE MAR_2023

NOTE:
THIS DRAWING SHOULD BE USED FOR REFERENCE PURPOSES ONLY REFER TO THE ASBESTOS AND LEAD SURVEYS FOR THE ROOM BY ROOM DATE FOR SPECIFIC DETAILS

Scale 2 OF 3

Scale NOT TO SCALE

Revisions Date

ASBESTOS SURVEY BY



ASBESTOS LEGEND

- = CEILING
- = FLOOR
- = CEILING AND FLOOR
- = UNSURVEYED AREA
- = APPLIANCE
- = MECHANICAL
- = PIPE MATERIAL
- = DUCT WORK
- = ELECTRICAL
- = ACM WALL
- = LEAD PAINT WALL

project

PE22400

GOVERNMENT HOUSE
PEI

drawing

GOVERNMENT BUILDING
UPPER FLOOR

designer/LK

Date FEB_2023

Drawn AJH

Date MAR_2023

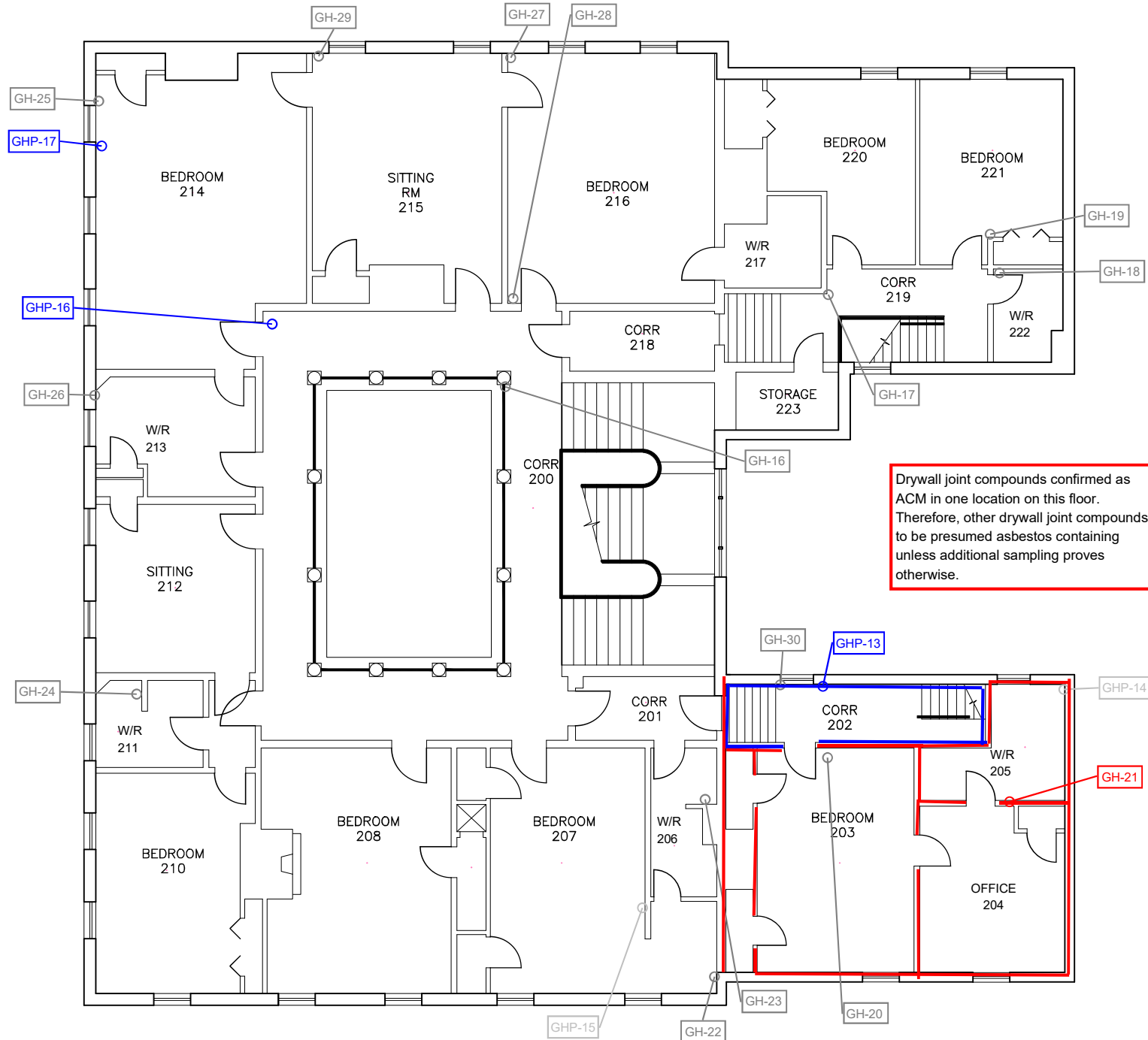
NOTE:

THIS DRAWING SHOULD BE USED FOR REFERENCE PURPOSES ONLY REFER TO THE ASBESTOS AND LEAD SURVEYS FOR THE ROOM BY ROOM DATE FOR SPECIFIC DETAILS

Scale 3 OF 3

Scale NOT TO SCALE


Revisions Date




APPENDIX IV

Summary of ACM conditions report

Government House (Main Floor) - Summary of ACM Conditions Report (2022)

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
108	Kitchen	VGH-13	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
109	Entry	GH-13	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
110	Washroom	VGH-13	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
111	Kitchen	VGH-13	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
112	Entry	VGH-13	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
113	Laundry	VGH-13	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
114	Dining Room	VGH-13	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
115	Hallway	GH-10	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
116	Office entry	VGH-10	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
117	Washroom	VGH-10	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
118	Rodd Room	VGH-10	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
	Stairwell to basement	GH-02	Vinyl sheet flooring	Chrysotile 15%	0.7 m2	F	A	Good	5	

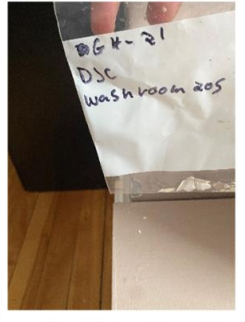
**** All drywall areas treated as presumed asbestos containing or have additional testing completed in those areas at the time of planned work****

LEGEND			
Sample Number Identifiers		Units	
GH-##	actual sample number	EA	Each
VGH-##	visually identified same as this sample number	m	meters
		m2	square metres
		m3	cubic metres
		PACM	presumed asbestos containing material

ASSESSMENT CODES			
ACCESS		CONDITION	
A	Accessible to all building occupants	GOOD	ACM is completely covered and/or exhibits no evidence of damage or deterioration
B	Accessible to maintenance and operations staff without a ladder	FAIR	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	POOR	ACM is damaged, deteriorated or delaminated
D	Not normally accessible		

ACTION CODES			
1	Immediate Clean-up of Debris that is likely to be disturbed.	4	ACM repair
2	ACM Removal required for compliance.	5	Continued management and surveillance.
3	Proactive ACM Removal.		

Government House (Upper level) - Summary of ACM Conditions Report (2022)

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
202	Corridor	VGH-21	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
203	Bedroom	VGH-21	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
204	Office	VGH-21	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
205	Washroom	GH-21	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	
205	Office	VGH-21	Drywall joint compound	Chrysotile 1.2%	--	F	A	Good	5	

** All drywall areas treated as presumed asbestos containing or have additional testing completed in those areas at the time of planned work**

LEGEND

Sample Number Identifiers

AA-##	actual sample number
VAA-##	visually identified same as this sample number

Units

EA	Each
m	meters
m2	square metres
m3	cubic metres



ASSESSMENT CODES

ACCESS		CONDITION	
A	Accessible to all building occupants	GOOD	ACM is completely covered and/or exhibits no evidence of damage or deterioration
B	Accessible to maintenance and operations staff without a ladder	FAIR	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	POOR	ACM is damaged, deteriorated or delaminated
D	Not normally accessible		

ACTION CODES

1	Immediate Clean-up of Debris that is likely to be disturbed.	4	ACM repair
2	ACM Removal required for compliance.	5	Continued management and surveillance.
3	Proactive ACM Removal.		

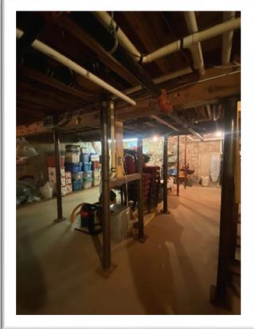
APPENDIX V

Summary of other Hazardous Materials report

Main Residence


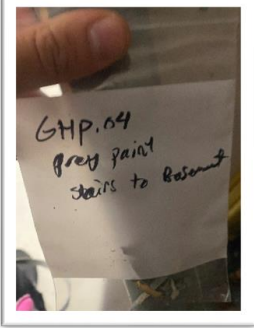

Government House (Basement) - Summary of Hazardous Materials Report (2022)

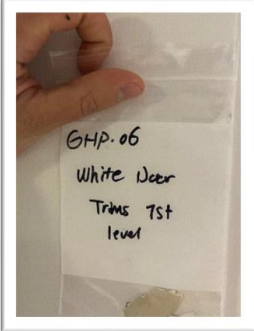

Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	Basement	NA	Concrete floor; bricks and masonry; stone		

Government House (Main floor) - Summary of Hazardous Materials Report (2022)

Lead Paint


Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Exterior	GHP-02	Green paint / Exterior shutters	0.42	All like painted shutters / trim to be treated as lead based paints	
NA	Stairwell to basement	GHP-04	Grey paint / Stairs to basement	2.3		
NA	Stairwell to basement	GHP-05	White paint / Wall surface	0.2	All like painted wall surfaces to be treated as lead based paints	

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	all	GHP-06	White paint / Interior door trim	2.4	All like painted interior trims to be treated as lead based paints	
NA	Main floor foyer	GHP-12	Blue paint / Wall surface	0.15	All like painted shutters / trim to be treated as lead based paints	

Silica

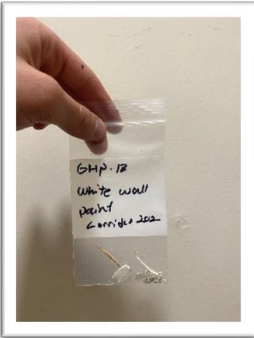
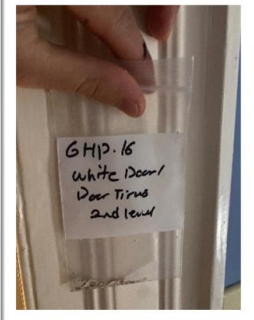

Room No.	Location	Sample No.	Material	Comments	Photo
NA	throughout	NA	Plasters		

Mercury

Room No.	Location	Sample No.	Material	Comments	Photo
NA		NA	Mercury filled thermostats	all like thermostats considered mercury filled.	

Government House (Upper level) - Summary of Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Corridor 202	GHP-13	White paint / Wall surface	0.22	All like painted wall surfaces to be treated as lead based paints	
NA		GHP-16	White paint / Interior door trim	19	All like painted trim surfaces to be treated as lead based paints	
NA	Exterior	GHP-17	White paint / Interior window trims	10	All like painted trims to be treated as lead based paints	

Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	throughout	NA	Plasters		

Garage

Government House (Garage) - Summary of Hazardous Materials Report (2022)

Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	Main	NA	Concrete floors		