



HAZARDOUS MATERIALS ASSESSMENT Customs House Building 40 Great George Street, Charlottetown, PE

Prepared For:

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

April 28, 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 Customs House Building located at 40 Great George Street 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 January 2023. 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.

Asbestos containing aircell straight run pipe insulation was noted in a limited area in the basement area and was noted in poor condition and has been identified in the Summary of ACM conditions and action report in Appendix IV and shall require action to bring conditions to acceptable conditions. Additional floor plans have been added in Appendix III to assist in locating these areas.

Although ceiling cavities were generally not accessible on other levels of the building, it should be anticipated to reveal concealed ACM pipe insulation when fixed ceilings and walls are removed.

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.

Other hazardous materials identified through sampling or visual assessment are noted in section 4 and are summarized in Appendix V.

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 for Management Plan Customs House Building						
Hazardous Materials	Description / Comments	Safe Handling Requirements	Disposal Requirements				
	Drywall joint compound – 2 nd floor	Licensed contractor to obtain work permit prior to handling from PEI Dept. of WCB/OSH Division	Regulatory approval from PEIELJ				
ASBESTOS	Asbestos containing mechanical insulation (Straight run aircell pipe insulation – poor condition)	and all other pertinent sections of the Occupational Health and Safety Act R.S.P.E.I.	Disposal at approved facility such as EPWMF in Wellington, PEI				
	Blue door trims – Basement	TD0 " .					
	White door trims – 2 nd level	TDG – manifest Trained personnel in the safe	Regulatory approval from PEIELJ				
LEAD PAINT	White trim paint- 3 rd level	handling of lead coated surfaces and all other pertinent sections of	Additional analysis required for TCLP for disposal purposes, if				
	Yellow wall paint- 3 rd level	the Occupational Health and Safety					
	Brown stair paint – stairs to attic	Act R.S.P.E.I	required.				
SILICA	Presumed in the following building components: • Poured or pre-cast concrete (basement) • Masonry and mortar • Plaster	Trained personnel in the safe handling of silica dust and all other pertinent sections of the Occupational Health and Safety Act R.S.P.E.I	Regulatory approval from PEIELJ				
MERCURY	fluorescent lamp tubes; thermostats	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.				

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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SITE / CLIENT INFORMATION

Project No: PE22400

Assessment Date: January 2023

Client Name: PEI Department of Transportation & Infrastructure

Address: Customs House Building

40 Great George Street

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 Customs House Building located at 40 Great George Street in Charlottetown, Prince Edward Island.

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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 January 2023. 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	PEI government offices				
Number of Floors	4 floors plus basement				
Total Area	Approximately 978 m ²				
Year of Construction 1850					
Structure Wood; concrete; brick					
Exterior Cladding	Brick				
HVAC	NA				
Roof	Not assessed				
Flooring Vinyl sheet flooring, vinyl floor tiles, carpet					
Interior Walls Plaster and drywall					
Ceilings	Plaster and drywall; acoustic ceiling tile (limited)				

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	 Occupational Health and Safety Act 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. Environmental Protection Act Chapter E-9 Waste Management Regulations, Prince Edward Island Transportation of Dangerous Goods Act (TDGA) 				
LEAD	 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	 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 of hazardous materials prior to renovations within the building. 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 9revised), 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 twenty-seven (27) bulk material samples were collected within the building during the survey. Some of these samples such as tile floor coverings and plasters were separated and a total of thirty-eight (38) samples were analyzed. Of the 38 samples analyzed, two (2) were found to be asbestos containing.

Other materials such as pipe and duct insulations visually identified as fiberglass insulation were noted and not sampled.

For details on approximate quantities, condition, friability, accessibility and locations of hazardous materials; refer to the Summary of ACM conditions report in Appendix IV.

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

4.1.1 Texture Coat Finishes

Texture coat finish plaster ceiling observed and sampled on 3rd floor (sample CH-19 – non asbestos containing).



4.1.2 Pipe Insulation

Pipe fittings that were accessible in the basement level were visibly identified as fiberglass. Other areas were not accessible with fixed plaster ceilings.

Straight sections of pipe insulations were various. Some were visibly identified as fiberglass (photo 1). Other pipes were brown hair insulation which was tested and analyzed as non-asbestos containing (photo 2).

There were limited areas noted and sampled of aircell pipe insulation which was found to contain **25% Chrysotile Asbestos** (photo 3).

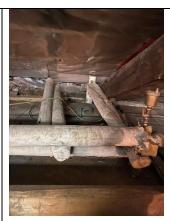


Photo 1



Photo 2



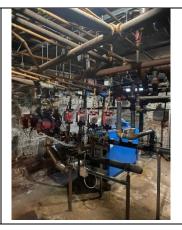
Photo 3

4.1.3 Duct Insulation

No insulated ducts were observed or reported.

4.1.4 Mechanical Equipment Insulation

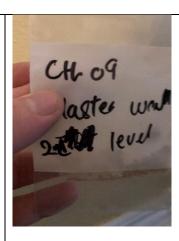
Newer boiler system in place. No suspect mechanical equipment insulations were observed or reported.



4.1.5 Plaster

Plaster walls and ceiling were noted and sampled in various random locations throughout the building. Representative sampling was completed on each floor of the building.

A total of fourteen (14) plaster samples were collected with both the white scratch coat and underlying base coats analyzed. 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 building.

Representative sampling was completed on each floor of the building.

A total of seven (7) joint compound samples were collected during the assessment. One of the samples was found to contain 1.9% Chrysotile Asbestos.



4.1.7 Vinyl Sheet Flooring

Sample No.:	Flooring Description	Location	Asbestos Type / Content (%)	Photo
CH-27	Tan vinyl sheet flooring with clear / tan mastic	1 ST Level	None Detected in flooring or mastics	SAN-26 VSE Bethlow, OFFICE 20

4.1.8 Vinyl Floor Tiles

No vinyl floor tiles were observed or reported.

4.1.9 Ceiling Tiles

Acoustic ceiling tile was only noted in limited areas (washroom). The ceiling tile area was sampled and found to be non-asbestos containing.

Additional like materials considered to be non-asbestos containing.

4.1.10 Other Building Materials

Attic space is visibly identified as fiberglass insulation.



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

Based on the age of the buildings, lead based paints were sampled. A total of fourteen (14) painted surface coatings were sampled within the building and sent to the laboratory for analysis for lead in paint.

Based on the assessment findings, five (5) 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 the table below.

Laboratory analysis certificate is presented in Appendix II.

Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
CHP-01	Green paint / Wall surface	Basement	< 0.0054	CHP: OI Green Parkt Joan Barrows And Company Company
CHP-02	White paint / Wall surface	Basement	<0.0073	CHP.02 white peakt usan Busunt
CHP-03	Blue paint / Door trims	Basement	0.25	CHP.03 Blue Dear Trivs Basonert

CHP-04	Yellow paint / Wall surface	Stairwell	< 0.0073	CPH. 04 YEMOW Puint Grains
CHP-05	Yellow paint / Wall surface	2 nd level	0.011	CPH.05 Yellow paid 2rd lew
CHP-06	White paint / Door trims	2 nd level	7.1	CAP. 06 White Door Trivis and roud
CHP-07	Grey paint / Wall surface	2 nd level	0.029	CAIPOF Grey was print print 2 nd (w)

CHP-08	White paint / Trims	3 rd level	6.7	CHP.08 White Times 3 rd lend
CHP-09	Grey paint / Wall surface	3 rd level	0.0078	CHP·09 Gry way Paint 3rd New 4
CHP-10	Yellow paint / Wall surface	3 rd level	5.5	CHF 10 Yellow pant 3rd level
CHP-11	Brown paint / Wood stairs	Stairs to attic	0.093	CHP. Brown Stairs to ATTLE

CHP-12	Brown paint / Door trims	1 st level	<0.0073	CHP.12 Brown Oper Trias 1st lend
CHP-13	White paint / Door trims	1 st level	<0.011	CHP. 13 White Dear Trim Totlemen
CHP-14	Yellow paint / Wall surface	1 st level	0.034	CMP 144 4cBow wan paint 1ste-1

4.3 POLYCHLORINATED BIPHENYLS (PCB's)

Mainly incandescent lighting noted within the building and are do not contain ballasts. Other lighting was not considered as suspect PCB containing.

4.3.1 Lighting Lamp Ballasts

Incandescent lighting noted within the building and do not contain ballasts.



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:

- Poured or pre-cast concrete (basement)
- Masonry and mortar
- Plaster

4.5 MERCURY

4.5.1 Lighting

Mercury vapour is present in fluorescent lamp tubes.

4.5.2 Mercury Containing Devices

Mercury containing thermostats present (photo 1).



Photo 1

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.

Asbestos containing aircell straight run pipe insulation was noted in a limited area in the basement area and was noted in poor condition and has been identified in the Summary of ACM conditions and action report in Appendix IV and shall require action to bring conditions to acceptable conditions. Additional floor plans have been added in Appendix III to assist in locating these areas.

Although ceiling cavities were generally not accessible on other levels of the building, it should be anticipated to reveal concealed ACM pipe insulation when fixed ceilings and walls are removed.

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.

Other hazardous materials identified through sampling or visual assessment are noted in section 4 and are summarized in Appendix V.

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 for Management Plan Customs House Building						
Hazardous Materials	Description / Comments	Safe Handling Requirements	Disposal Requirements			
ASBESTOS	Drywall joint compound – 2 nd floor Asbestos containing mechanical insulation (Straight run aircell pipe	Licensed contractor to obtain work permit prior to handling from PEI Dept. of WCB/OSH Division and all other pertinent sections of the Occupational Health and Safety Act	Regulatory approval from PEIELJ Disposal at approved facility such as EPWMF in Wellington, PEI			
	insulation – poor condition)	R.S.P.E.I.				
LEAD PAINT	Blue door trims – Basement White door trims – 2 nd level	TDG – manifest Trained personnel in the safe handling of lead coated surfaces	Regulatory approval from PEIELJ			
	White trim paint- 3 rd level	and all other pertinent sections of				

	Yellow wall paint- 3 rd level Brown stair paint – stairs to attic	the Occupational Health and Safety Act R.S.P.E.I	Additional analysis required for TCLP for disposal purposes, if required.
SILICA	Presumed in the following building components: • Poured or pre-cast concrete (basement) • Masonry and mortar • Plaster	Trained personnel in the safe handling of silica dust and all other pertinent sections of the Occupational Health and Safety Act R.S.P.E.I	Regulatory approval from PEIELJ
MERCURY	fluorescent lamp tubes; thermostats	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.

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. Upon completion, update mechanical and pipe insulation that have been re-insulated with Asbestos Free labelling (figure 1).



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.

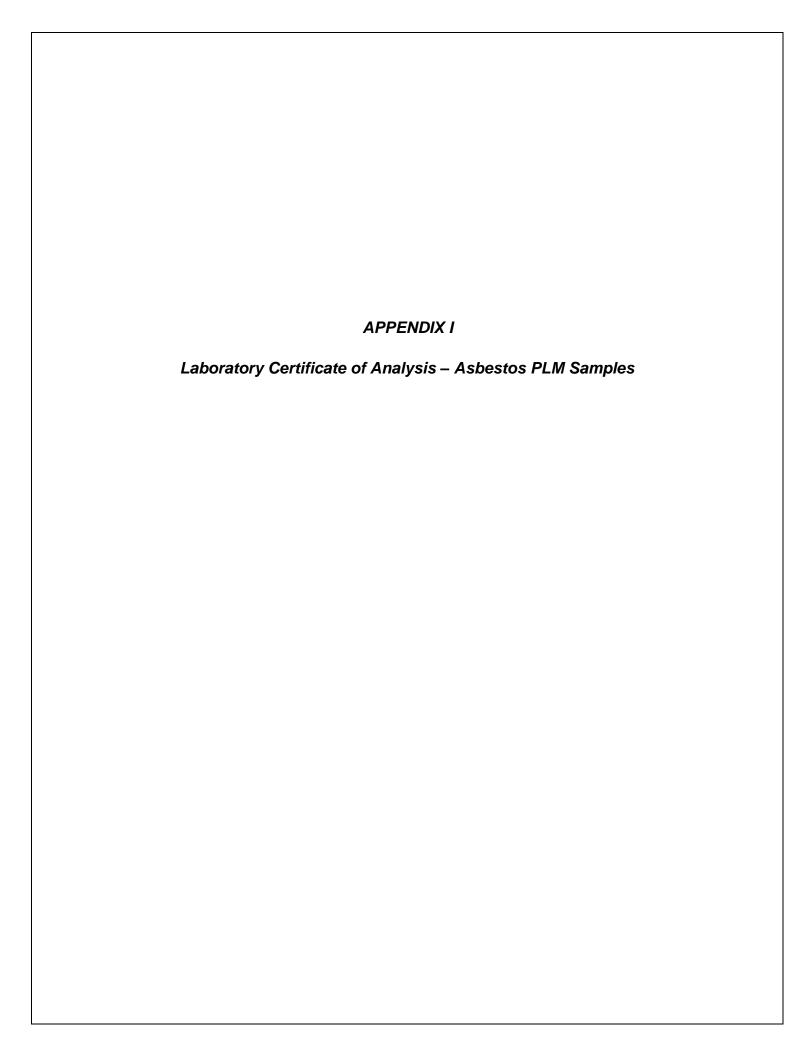
Should you have any questions or concerns pertaining to this report, please contact the undersigned directly.

Larry G. Koughan, CET, CRSP

Senior Project Consultant









Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited

20 Duke St., Suite 109 Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/31/2023

Report No.: 676973 - PLM Project: Custom's House

Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Location: Basement Lab No.: 7558963 **Analyst Observation:** White Drywall

Client Description: Drywall Client No.: CH-01 **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

5 Cellulose None Detected

Note: No joint compound present

Lab No.: 7558964 **Analyst Observation:** Grey Insulation **Location:** Basement

Client No.: CH-02 **Client Description:** Straight Run Insulation **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected 25 Chrysotile

Lab No.: 7558965 **Analyst Observation:** Brown Insulation Location: Basement

Client No.: CH-03 Client Description: Pipe Insulation **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

90 Hair None Detected

Lab No.: 7558966 **Analyst Observation:** White Ceiling Tile Location: Second Floor

Client No.: CH-04 Client Description: 24'x48' Ceiling Tile **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

60 Cellulose None Detected

20 Fibrous Glass

Lab No.: 7558967 Analyst Observation: Tan Joint Compound Location: 2nd Floor

Client No.: CH-05 Client Description: Drywall Joint Compound **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected **PC 1.9** Chrysotile

Lab No.: 7558968 **Analyst Observation:** White Plaster **Location:** 2nd Floor

Client No.: CH-06 Client Description: Wall plaster **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

100 None Detected None Detected

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

1/25/2023 Date Received: 01/31/2023 Date Analyzed:

Aidan Becker

Signature:

Analyst:

Bealer

Frank E. Ehrenfeld, III

Approved By:

Laboratory Director

Frank Tuanfol



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited

20 Duke St.,Suite 109 Bedford NS B4A 2Z5

Client: ALL131

.____

Report Date: 1/31/2023

Report No.: 676973 - PLM Project: Custom's House

100

Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7558968(L2) Analyst Observation: Grey Plaster Location: 2nd Floor

Client No.: CH-06 Client Description: Wall plaster Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Insufficient material provided to verify results.

Lab No.: 7558969 **Analyst Observation:** White Plaster **Location:** 2nd Floor

Client No.: CH-07 Client Description: Wall plaster Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 7558969(L2) Analyst Observation: Grey Plaster Location: 2nd Floor

Client No.: CH-07 Client Description: Wall plaster Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 7558970 Analyst Observation: Tan Joint Compound Location: 2nd Floor

Client No.: CH-08 Client Description: Drywall Joint Compound Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 7558971 Analyst Observation: White Plaster Location: 2nd Floor

Client No.: CH-09 Client Description: Plaster Wall Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 7558971(L2) Analyst Observation: Grey Plaster Location: 2nd Floor

Client No.: CH-09 Client Description: Plaster Wall Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 5 Hair 95

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

Date Received: 1/25/2023

Date Analyzed: 01/31/2023

Date Analyzed: 01/31/2023

Analyst: Aidan Becker

Dated: 2/1/2023 2:31:35

Signature:

Page 2 of 8

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited

20 Duke St., Suite 109 Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/31/2023

Report No.: 676973 - PLM Project: Custom's House

Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Analyst Observation: White Plaster Lab No.: 7558972 **Location:** 2nd Floor

Client No.: CH-10 **Client Description:** Plaster Wall **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected 100 None Detected

Insufficient material provided to verify results.

Lab No.: 7558972(L2) Analyst Observation: Grey Plaster Location: 2nd Floor

Client Description: Plaster Wall Client No.: CH-10 **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 5 Hair

Lab No.: 7558973 **Analyst Observation:** Grey Plaster **Location:** 2nd Floor

Facility: Client No.: CH-11 Client Description: Plaster Wall

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

5 Hair None Detected

Lab No.: 7558974 **Analyst Observation:** White Plaster **Location:** 3rd Floor

Client No.: CH-12 Client Description: Plaster Wall **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Analyst Observation: Grey Plaster Location: 3rd Floor **Lab No.:** 7558974(L2)

Client No.: CH-12 Client Description: Plaster Wall **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 7558975 **Analyst Observation:** White Plaster **Location:** 3rd Floor

Client No.: CH-13 Client Description: Plaster Wall **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

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

Bealer

1/25/2023 Date Received:

01/31/2023 Date Analyzed:

Dated: 2/1/2023 2:31:35

Signature: Aidan Becker Analyst:

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 3 of 8



Email: customerservice@iatl.com

1/31/2023

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date:

20 Duke St., Suite 109 Report No.: 676973 - PLM Bedford NS B4A 2Z5 Project: Custom's House

Project No.: PE22400 Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7558975(L2) **Analyst Observation:** Grey Plaster Location: 3rd Floor

Client Description: Plaster Wall Client No.: CH-13 **Facility:**

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 7558976 **Analyst Observation:** White Joint Compound **Location:** 3rd Level Room 309

Client No.: CH-14 Client Description: Ceiling Texture Coat **Facility:**

Percent Non-Fibrous Material: Percent Non-Asbestos Fibrous Material: Percent Asbestos:

None Detected 100 None Detected

Lab No.: 7558976(L2) Analyst Observation: White Caulk Location: 3rd Level Room 309

Client No.: CH-14 Client Description: Ceiling Texture Coat **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 100 None Detected

Lab No.: 7558977 **Analyst Observation:** White Plaster **Location:** 3rd Level

Client No.: CH-15 Client Description: Wall plaster **Facility:**

Percent Non-Fibrous Material: Percent Asbestos: Percent Non-Asbestos Fibrous Material:

None Detected 100 None Detected

Lab No.: 7558977(L2) **Analyst Observation:** Grey Plaster Location: 3rd Level

Client No.: CH-15 Client Description: Wall plaster **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 100 **PC Trace** Chrysotile

Insufficient material provided to verify results.

Lab No.: 7558978 Analyst Observation: White Joint Compound **Location:** 3rd Level

Client No.: CH-16 Client Description: Drywall Joint Compound **Facility:**

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

Page 4 of 8

None Detected 100 None Detected

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

1/25/2023 Date Received:

01/31/2023 Date Analyzed: Bealer

Signature: Aidan Becker Analyst:

Dated: 2/1/2023 2:31:35

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited

20 Duke St.,Suite 109 Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/31/2023

Report No.: 676973 - PLM Project: Custom's House

100

Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7558979Analyst Observation: White Joint CompoundLocation: 3rd Level

Client No.: CH-17 Client Description: Drywall Joint Compound Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 7558980 Analyst Observation: White Plaster Location: 3rd Level

Client No.: CH-18 Client Description: Wall plaster Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 7558980(L2) Analyst Observation: Grey Plaster Location: 3rd Level

Client No.: CH-18 Client Description: Wall plaster Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

PC 0.50 Chrysotile None Detected 99.5

Lab No.: 7558981 **Analyst Observation:** White Plaster **Location:** 3rd Level Room 309

Client No.: CH-19 Client Description: Ceiling Plaster Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 7558981(L2) **Analyst Observation:** Grey Plaster **Location:** 3rd Level Room 309

Client No.: CH-19 Client Description: Ceiling Plaster Facility

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 5 Hair 95

Lab No.: 7558982 Analyst Observation: Grey Plaster Location: Attic

Client No.: CH-20 Client Description: Plaster Facility:

<u>Percent Asbestos:</u> <u>Percent Non-Asbestos Fibrous Material:</u> <u>Percent Non-Fibrous Material:</u>

None Detected None Detected 100

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

Date Received: 1/25/2023

Date Analyzed: 01/31/2023

Signature: Bellice

Analyst: Aidan Becker

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Frank Tuanfol

Dated: 2/1/2023 2:31:35 Page 5 of 8



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 1/31/2023

20 Duke St.,Suite 109

Report No.: 676973 - PLM

Bedford NS B4A 2Z5

Project: Custom's House

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 ir 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.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

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.

Dated: 2/1/2023 2:31:36 Page 6 of 8



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 1/31/2023

20 Duke St.,Suite 109 Report No.: 676973 - PLM
Bedford NS B4A 2Z5 Project: Custom's House

Client: ALL131 Project No.: PE22400

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. \sim 0.25% for most samples.

Dated: 2/1/2023 2:31:36 Page 7 of 8



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 1/31/2023

20 Duke St., Suite 109 Report No.: 676973 - PLM Bedford NS B4A 2Z5 Project: Custom's House 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.

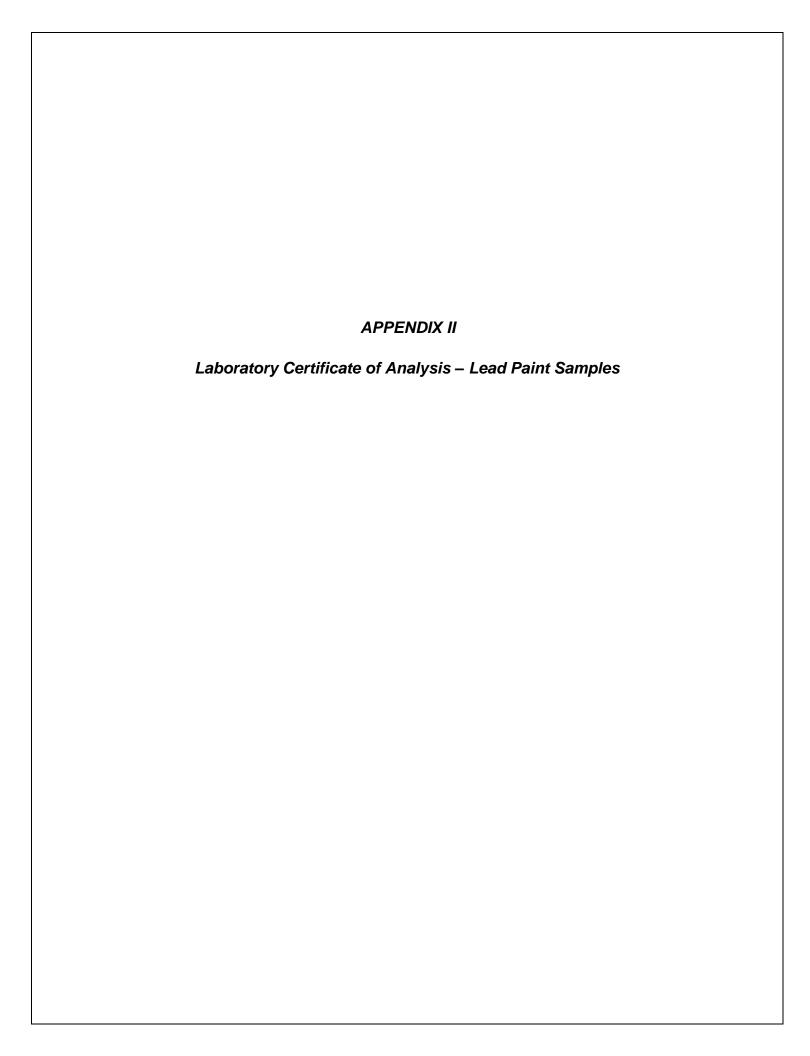
New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM 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 that 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.

Dated: 2/1/2023 2:31:36 Page 8 of 8

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





9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449 Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited

20 Duke St., Suite 109 Bedford NS B4A 2Z5

Client: ALL131

Report Date: 2/1/2023

Report No.: 676957 - Lead Paint Project: Custom's House

Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 755 Client No.: CH		Green Paint, Wall Basement	Result (% by Weight): <0.0054 Result (ppm): <54 Comments: ***
Lab No.: 755 Client No.: CH		White Paint, Wall Basement	Result (% by Weight): <0.0073 Result (ppm): <73 Comments:
Lab No.: 755 Client No.: CH		Blue Door Trims Basement	Result (% by Weight): 0.25 Result (ppm): 2500 Comments: ***
Lab No.: 755 Client No.: CH		Yellow Wall Paint Stairs	Result (% by Weight): <0.0073 Result (ppm): <73 Comments:
Lab No.: 755 Client No.: CH	Location:	Yellow Paint 2nd Level	Result (% by Weight): 0.011 Result (ppm): 110 Comments: *
Lab No.: 755 Client No.: CH		White Door Trims 2nd Level	Result (% by Weight): 7.1 Result (ppm): 71000 Comments: ***
Lab No.: 755 Client No.: CH		Grey Wall Paint 2nd Level	Result (% by Weight): 0.029 Result (ppm): 290 Comments:
Lab No.: 755 Client No.: CH		White Trims 3rd Level	Result (% by Weight): 6.7 Result (ppm): 67000 Comments:

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

Date Received:

1/25/2023

Date Analyzed:

02/01/2023

Signature:

Chad Shaffer Analyst:

Dated: 2/1/2023 1:35:13

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited

20 Duke St.,Suite 109 Bedford NS B4A 2Z5

Client: ALL131

Report Date: 2/1/2023

Report No.: 676957 - Lead Paint Project: Custom's House

Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7558776 Description: Grey Wall Paint Result (% by Weight): 0.0078

Client No.: CHP-09 Location: 3rd Level Result (ppm): 78

Comments:

Lab No.:7558777Description:Yellow PaintResult (% by Weight):5.5Client No.:CHP-10Location:3rd LevelResult (ppm):55000

Comments: ***

Lab No.:7558778Description:Brown PaintResult (% by Weight):0.093Client No.:CHP-11Location:Stairs To AtticResult (ppm):930

Comments:

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

Date Received:

1/25/2023

Date Analyzed:

02/01/2023

Signature: Analyst:

Chad Shaffer

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 2/1/2023

20 Duke St., Suite 109

Report No.: 676957 - Lead Paint

Bedford NS B4A 2Z5

Project: Custom's House

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:

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 ir 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.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

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

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 Apendix 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:

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 complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

Dated: 2/1/2023 1:35:13 Page 3 of 4



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited

20 Duke St., Suite 109 Bedford NS B4A 2Z5

Client: ALL131

Report Date: 2/1/2023

Report No.: 676957 - Lead Paint Project: Custom's House

Project No.: PE22400

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).

Dated: 2/1/2023 1:35:13 Page 4 of 4



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449 Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited

20 Duke St., Suite 109 Bedford NS B4A 2Z5

Client: ALL131

Report Date: 3/28/2023

Report No.: 680264 - Lead Paint Project: Custom's House

Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Description: Brown Door Trims **Result (% by Weight):** <0.0073 Lab No.: 7588730

Client No.: CHP-12 **Location:** 1st Level Result (ppm):

Comments:

Lab No.: 7588731 **Description:** White Door Trim **Result (% by Weight):** <0.011

Client No.: CHP-13 **Location:** 1st Level Result (ppm): <110

Comments: *

Lab No.: 7588732 **Description:** Yellow Wall Paint Result (% by Weight): 0.034 Client No.: CHP-14 **Location:**

1st Level Result (ppm):

Comments:

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

3/21/2023 Date Received:

03/28/2023 Date Analyzed:

Signature: Chad Shaffer

Analyst:

Dated: 3/28/2023 1:38:45

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 3



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 3/28/2023

20 Duke St., Suite 109

Report No.: 680264 - Lead Paint

Bedford NS B4A 2Z5

Project: Custom's House

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:

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 ir 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.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

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

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 Apendix 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:

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 complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

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9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Report Date:

3/28/2023

Client: ALL-TECH Environmental Services Limited

20 Duke St., Suite 109

Report No.: 680264 - Lead Paint

Bedford NS B4A 2Z5

Project: Custom's House

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).

Dated: 3/28/2023 1:38:46 Page 3 of 3







	Customs House (Basement) - 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	
B1		CH-02	Stright run pipe insulation (aircell)	Chrysotile 25%	4.5 m	F	В	poor	2	City or straight Con Institute Film	

LEGEND								
Sample No	umber Identifiers		Units					
CH-##	actual sample number		EA	Each				
VCH-##	visually identified same as this sample number		m	meters				
		-	m2	square metres				
			m3	cubic metres				
			PACM	presumed asbestos containing material				

	ASSSESSMENT CODES									
ACCESS		CONDITION								
Α	Accessible to all building occupants	(2(3(3))	ACM is completely covered and/or exhibits no evidence of damage or deterioration							
В	Accessible to maintenance and operations staff without a ladder	FAIR	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).							
С	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 CO	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.									

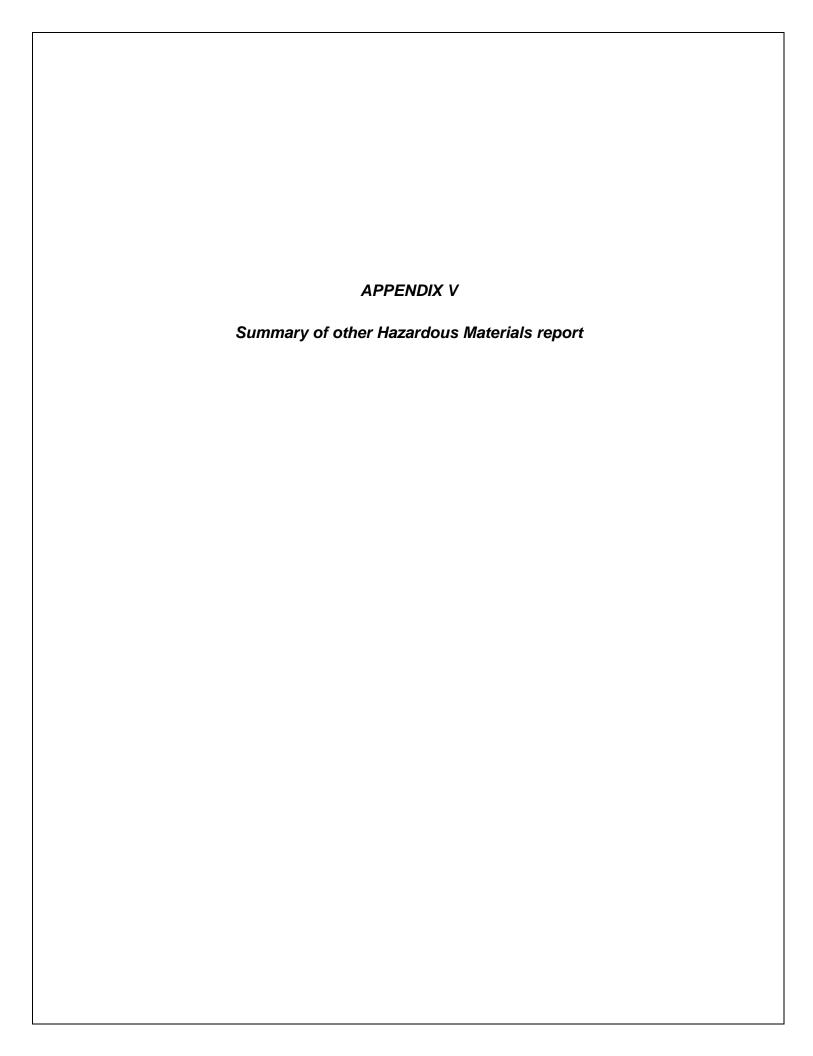
Customs House (2nd floor) - Summary of ACM Conditions Report (2022) Friable **Estimated** (F) **Action Code** Asbestos Type & Room No. Description Sample No. **Material description** Volume or Access Condition (refer to **Photo** Non-Content (%) friable Area legend) (NF) CH-05 DJC 2hd Floor Drywall joint compound 203 office CH-05 Chrysotile 1.9% Α good 5 7

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

LEGEND								
Sample N	umber Identifiers		Units					
CH-##	actual sample number		EA	Each				
VCH-##	visually identified same as this sample number		m	meters				
		_	m2	square metres				
			m3	cubic metres				

	ASSSESSMENT CODES									
ACCESS		CONDITION								
Α	Accessible to all building occupants	i coon	ACM is completely covered and/or exhibits no evidence of damage or deterioration							
В	Accessible to maintenance and operations staff without a ladder	LAID	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).							
С	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									

A	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.								



Customs Building (Basement) - Summary of Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
B2	Basement	CHP-03	Blue paint / Door trim	0.25	All like painted trim to be treated as lead based paints	CHP.03 Blue Dear Trius Beroment
vacant space	Basement	KPP-05	Red paint / Boiler room	0.32	All like painted surfaces to be treated as lead based paints	typ.05 Red paint Boiler E

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

Customs Building (1st floor) - Summary of Hazardous Materials Report (2022)

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

Customs Building (2nd floor) - Summary of Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
212	Corridor	CHP-06	White paint / Door trim	7.1	All like painted trims to be treated as lead based paints	CHP. 06 White Book Think and low

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

Customs Building (3rd floor) - Summary of Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo	
304	Corridor	CHP-08	White paint / Door trim	6.7	All like painted trims to be treated as lead based paints	CHP. 08 White Trans Bill lead	
313	office	CHP-10	Yellow paint / Wall surface	5.5	All like painted wall surfaces to be treated as lead based paints	CHR 10 Yellow paint and level	
	Stairs to attic	CHP-11	Brown paint / Wood stairs to attic	0.93	All like painted surfaces to be treated as lead based paints	CHP. To Stairs to ATTLE	
Silica							

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

Customs Building (4th floor) - Summary of Hazardous Materials Report (2022)

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