



HAZARDOUS MATERIALS ASSESSMENT Green Park 36 Green Park, Port Hill, PE

Prepared For:

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

April 4, 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 Green Park Interpretive Centre, as well as the Yeo House and Blacksmith Shop at 360 Green Park Road in Port Hill, 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 November 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.

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 Green Park					
Hazardous Materials	Description / Comments	Safe Handling Requirements	Disposal Requirements		
ASBESTOS	Interpretive Centre Asbestos containing drywall joint compound. Yeo House Asbestos containing plaster.	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 R.S.P.E.I.	Regulatory approval from PEIELJ Disposal at approved facility such as EPWMF in Wellington, PEI		
LEAD PAINT	Interpretive Centre Black paint on wooden door trim Yeo House Green paint exterior wood trim Yellow paint exterior wood siding White paint on walls Dark brown paint on door trim Pink paint on wall Cream paint on wall White window trim Brown wood trim	TDG – manifest Trained personnel in the safe handling of lead coated surfaces and all other pertinent sections of the Occupational Health and Safety Act R.S.P.E.I	Regulatory approval from PEIELJ Additional analysis required for TCLP for disposal purposes, if required.		
SILICA	Presumed in the following building components: • Poured or pre-cast concrete (basement) — Interpretive Centre & Yeo House • Stone footing (Blacksmith shop)	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	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: November 2022

Client Name: PEI Department of Transportation & Infrastructure

Address: Green Park Provincial Park

360 Green Park Road,

Tyne Valley, 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 Green Park Interpretive Centre, as well as the Yeo House and Blacksmith Shop at 360 Green Park Road in Port Hill, 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 November 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	Provincial park / historic site			
Number of Floors	Interpretive Centre: 1 floor			
	Yeo House: 4 floors plus a basement			
	Blacksmith shop: 1 floor			
Total Area	Interpretive Centre: 202 m ²			
	Yeo House: 628 m ²			
	Blacksmith shop: 36 m ²			
Year of Construction	Interpretive Centre: 1973			
	Yeo House: 1865			
	Blacksmith shop: 1900			
Structure	Wood, concrete			
Exterior Cladding	Wood			
HVAC	NA			
Roof	Not assessed			
Flooring	vinyl floor tiles, carpet, hardwood			
Interior Walls & Ceilings	Interpretive Centre: Drywall			
	Yeo House: Plaster			
	Blacksmith shop: Wood			







Yeo House



Blacksmith Shop

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					
 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, Prin 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 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 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.

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

Interpretive Centre

A total of five (5) bulk material samples were collected within the building during the survey. Limited suspect materials were encountered. Some drywall walls were encountered. Other walls were noted as wood paneling. Of the 5 samples analyzed, one (1) drywall joint compound was found to be asbestos containing.

Yeo House

A total of twelve (12) bulk material samples were collected within the building during the survey. Sampling Limited suspect materials were encountered. Some drywall walls were encountered. Other walls were noted as wood paneling. Of the 5 samples analyzed, one (1) drywall joint compound was found to be asbestos containing.

Blacksmith Shop

No suspect materials were reported. Wood construction with wood floors and walls.

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 finishes were not observed or reported in
any of the building during the assessment.

4.1.2 Pipe Insulation

No pipe insulation was observed or reported in any of the buildings during the assessment.

4.1.3 Duct Insulation

No insulated ducts were observed or reported in any of the buildings.

4.1.4 Mechanical Equipment Insulation

No mechanical equipment insulations were observed or reported in any of the buildings.

4.1.5 Plaster

Yeo House

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

A total of eleven (11) plaster samples were collected with both the white scratch coat and underlying base coats analyzed. Two of the samples on the second floor and one sample on the third floor were found to be asbestos containing. Sample results ranged from 1.5 – 2.1% chrysotile asbestos.

Interpretive Centre

No plasters were observed or reported in the interpretive centre.



4.1.6 Drywall Joint Compound

Yeo House

Limited areas of drywall joint compounds were noted within the building in repair areas. One sample was collected when noted on the third level ceiling. The sample was found to be non-asbestos containing.

Interpretive Centre

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

Representative sampling was completed in the building.

A total of three (3) joint compound samples were collected during the assessment. One of the samples taken in the washroom was found to contain 1.3% chrysotile asbestos.



Yeo House



Interpretive Centre

4.1.7 Vinyl Sheet Flooring

No vinyl sheet floorings were observed or reported in any of the buildings assessed.

4.1.8 Vinyl Floor Tiles

Sample No.:	Flooring Description	Location	Asbestos Type / Content (%)	Photo		
	Interpretive Centre					
MU-04 MU-05	12'x12' grey floor tile	Men's washroom Women's washroom	None Detected	MU-04 Mess Bitniass ET		

4.1.9 Ceiling Tiles

No ceiling tiles were observed or reported in any of the	
buildings.	

4.1.10 Excluded Asbestos Materials

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

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:

Interpretive Centre

A total of five (5) painted surface coatings were sampled within the building and sent to the laboratory for analysis for lead in paint.

Based on the assessment findings, one (1) 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.

Yeo House

A total of eleven (11) painted surface coatings were sampled within the 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.

Blacksmith Shop

One (1) exterior painted surface coating was sampled within the building and sent to the laboratory for analysis for lead in paint. The paint was found to be below 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
		Yeo I	House	
YHP-01	Green paint	Exterior door and trim	0.060	YAP.OI 91
YHP-02	Yellow paint	Exterior siding	0.062	WHIP EZ ME Q OW PROMY FAT

YHP-03	White wall paint	1 st level	0.13	YHA. 03 White Parti 154 Icrel
YHP-04	Dark brown paint	Door trims	16	YHP. 04 Dark Brow Tribus
YHP-05	Pink wall paint	Study	0.28	YHP.05 Dink paint own over study
YHP-06	Cream paint	Ceiling trims	0.041	Yup-06 Crocum celyay Trivan

YHP-07	Cream color wall	2 nd level	0.73	VIII. 07 Creme color week and level
YHP-08	White paint	Window trims	1.6	VI-tp.08 Whit window Trahi
YHP-09	White paint ceiling	3 rd level	< 0.0070	NA
YHP-10	White paint	Sunroom	<0.0049	YHP. Com to B white pand sun com

YHP-11	Brown trims	Sunroom	0.15	YHPICE AP Sun Ruen Brow Trins
		Interpreti	ve Centre	
MUP-01	Green paint	Exterior	<0.0083	Mup-ol green point Ext
MUP-02	White paint	Door	0.010	AUD. 02 whit idear point
MUP-03	Black	Door trim	0.24	MUD.03 Black Loca Trinu

MUP-04	Cream color paint	Bathroom	<0.0072	ANUPL MAY CERTAL CART PARISH CHATTAN
MUP-05	White paint	Ceiling	<0.0060	MUP. 08 Whit point ceiling
		Blacksm	ith Shop	
BSP-01	White paint	Inside	<0.0064	BSD et White Raid

4.3 POLYCHLORINATED BIPHENYLS (PCB's)

The following is a breakdown of observations of suspect PCB containing devices for each building:

Interpretive Centre

No suspect PCB containing ballasts or transformers were noted or reported within the building.



Yeo House

Limited lamp ballasts within the building. Typical ballasts noted were Philips Mark III Lamp Ballasts. Manufacturers markings on ballasts as Non-PCB.



Blacksmith Shop

No suspect PCB containing ballasts or transformers were noted or reported within the building.

4.4 SILICA

Crystalline silica is a presumed component of the following materials:

- Interpretive Centre and Yeo House Poured or pre-cast concrete (basement)
- Blacksmith shop Stone footing

4.5 MERCURY

4.5.1 Lighting

Mercury vapour is present in fluorescent lamp tubes where present.

4.5.2 Mercury Containing Devices

No mercury containing thermostats ampules were not reported within the buildings.

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.

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 Green Park								
Hazardous Materials	Description / Comments	Safe Handling Requirements	Disposal Requirements					
ASBESTOS	Interpretive Centre Asbestos containing drywall joint compound.	Licensed contractor to obtain work permit prior to handling from PEI Dept. of WCB/OSH Division and all other	Regulatory approval from PEIELJ Disposal at approved facility such as EPWMF in Wellington, PEI					
	Yeo House Asbestos containing plaster.	pertinent sections of the Occupational Health and Safety Act R.S.P.E.I.						

LEAD PAINT	Interpretive Centre Black paint on wooden door trim Yeo House Green paint exterior wood trim Yellow paint exterior wood siding White paint on walls Dark brown paint on door trim Pink paint on wall Cream paint on wall White window trim Brown wood trim	TDG – manifest Trained personnel in the safe handling of lead coated surfaces and all other pertinent sections of the Occupational Health and Safety Act R.S.P.E.I	Regulatory approval from PEIELJ Additional analysis required for TCLP for disposal purposes, if required.
SILICA	Presumed in the following building components: • Poured or pre-cast concrete (basement) — Interpretive Centre & Yeo House • Stone footing (Blacksmith shop)	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	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.

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 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 per applicable regulations and guidelines.

6.4 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.

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.

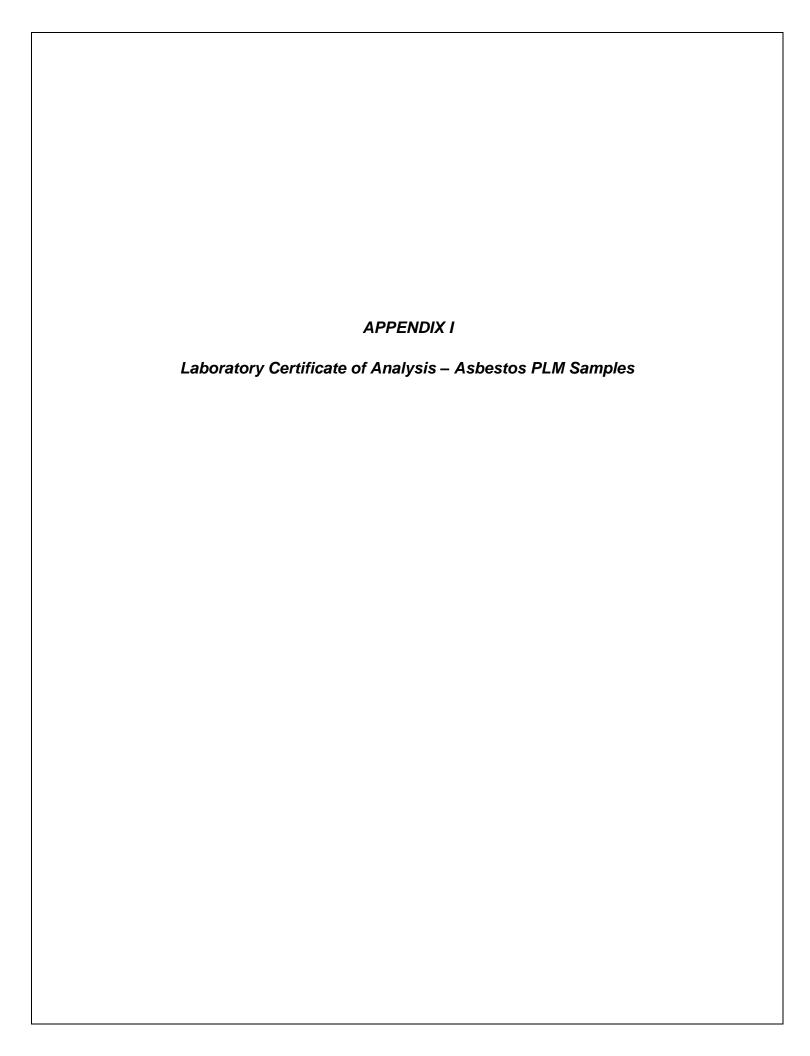
Should you have any questions or concerns pertaining to this report, please contact the undersigned directly.

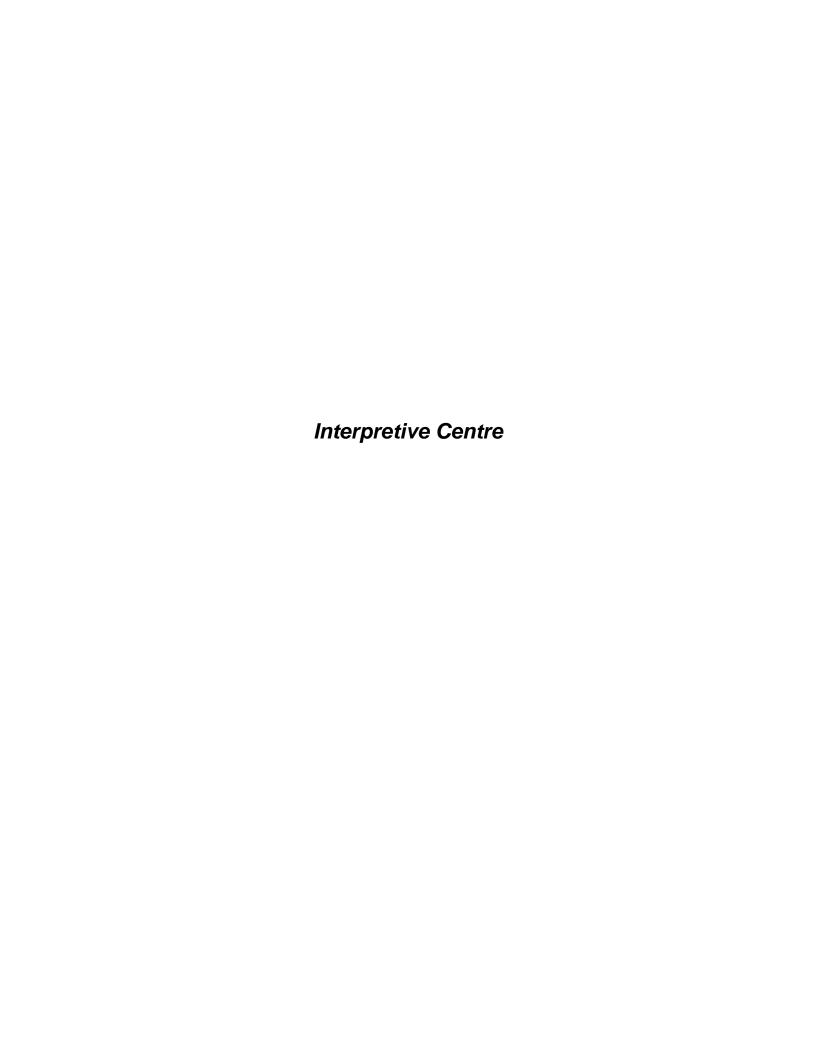
Lange.





Larry G. Koughan, CET, CRSP Senior Project Consultant







Client: ALL131

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:

20 Duke St., Suite 109 Report No.: 673535 - PLM

Bedford NS B4A 2Z5 Project: Green Park - Interpretive Centre

> Project No.: PE22400

12/6/2022

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7532508 Analyst Observation: White Joint Compound Location: Ceiling Gift Shop

Client Description: Drywall Joint Compound Client No.: MU-01 **Facility:**

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

None Detected 100 None Detected

Lab No.: 7532508(L2) **Analyst Observation:** Off-White Joint Compound **Location:** Ceiling Gift Shop

Client No.: MU-01 Client Description: Drywall Joint Compound **Facility:**

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

None Detected None Detected

Lab No.: 7532509 **Analyst Observation:** White Drywall **Location:** Bathroom

Client Description: Drywall Joint Compound **Facility:** Client No.: MU-02

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

None Detected 5 Cellulose

Lab No.: 7532509(L2) **Analyst Observation:** Off-White Joint Compound Location: Bathroom

Client No.: MU-02 Client Description: Drywall Joint Compound **Facility:**

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

None Detected None Detected

Analyst Observation: White Joint Compound Location: Women's Bathroom **Lab No.:** 7532510

Client No.: MU-03 **Client Description:** Drywall Joint Compound **Facility:**

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

None Detected **PC 1.3** Chrysotile

Lab No.: 7532511 **Analyst Observation:** Grev Floor Tile **Location:** Men's Bathroom

Client Description: 12'x12' Floor Tile Client No.: MU-04 **Facility:**

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

None Detected 100 None Detected

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

11/30/2022 Date Received:

12/06/2022 Date Analyzed: Bealer

Signature: Aidan Becker Analyst:

Dated: 12/7/2022 10:00:09

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 5



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Report Date:

Report No.:

12/6/2022

673535 - PLM

Client: ALL-TECH Environmental Services Limited

20 Duke St., Suite 109

Bedford NS B4A 2Z5 Project: Green Park - Interpretive Centre

Client: ALL131 Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7532512 Analyst Observation: Grey Floor Tile Location: Women's Bathroom

Client No.: MU-05 Client Description: 12'x12' Floor Tile Facility:

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

None Detected None Detected 100

Lab No.: 7532512(L2) Analyst Observation: Black Mastic Location: Women's Bathroom

Client No.: MU-05 Client Description: 12'x12' Floor Tile Facility:

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

None Detected None Detected 100

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

Date Received: 11/30/2022

Date Analyzed: 12/06/2022

Signature:
Analyst:
Aidan Becker

Dated: 12/7/2022 10:00:09 Page 2 of 5

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Frank Tuan



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/6/2022

20 Duke St., Suite 109 Report No.: 673535 - PLM

Bedford NS B4A 2Z5 Project: Green Park - Interpretive Centre

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: 12/7/2022 10:00:09 Page 3 of 5



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/6/2022

20 Duke St., Suite 109 Report No.: 673535 - PLM

Bedford NS B4A 2Z5 Project: Green Park - Interpretive Centre

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/1198_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.

Dated: 12/7/2022 10:00:09 Page 4 of 5



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/6/2022

20 Duke St., Suite 109 Report No.: 673535 - PLM

Bedford NS B4A 2Z5 Project: Green Park - Interpretive Centre

> 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.

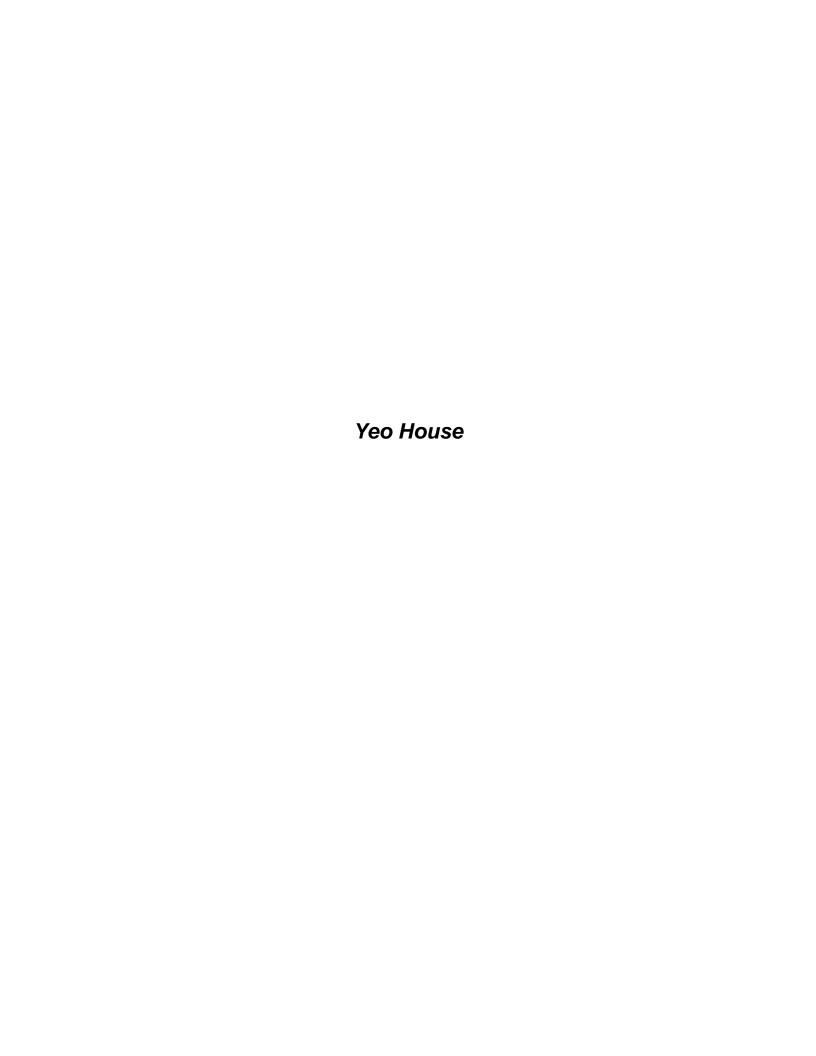
New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM 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: 12/7/2022 10:00:09 Page 5 of 5

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





Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/2/2022

20 Duke St., Suite 109 Report No.: 673387 - PLM

Bedford NS B4A 2Z5 Project: Green Park - Yeo House

> Project No.: PE22400

Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7531295 **Analyst Observation:** Pink/White Plaster **Location:** Storage Closet

Client Description: Wall Plaster Client No.: YH-01 **Facility:**

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

Trace Cellulose 100 None Detected

Trace Hair

Trace Fibrous Glass

Lab No.: 7531296 Analyst Observation: Pink/White Plaster **Location:** The Study

Client Description: Wall Plaster Client No.: YH-02 **Facility:**

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

Trace Cellulose 100 None Detected

Trace Hair

Analyst Observation: Pink/White Plaster Lab No.: 7531297 Location: Wood Stove Room

Client No.: YH-03 **Client Description:** Plaster Wall **Facility:**

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

2 Hair None Detected

1 Cellulose

Lab No.: 7531298 **Analyst Observation:** Pink/White Plaster Location: Front Entrance

Client Description: Wall Plaster Client No.: YH-04 **Facility:**

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

2 Hair None Detected

1 Cellulose

Lab No.: 7531299 **Analyst Observation:** Lt Grey Joint Compound **Location:** 3rd Level Ceiling

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

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

None Detected None Detected

Lab No.: 7531300 **Analyst Observation:** White Plaster Location: 2nd Level

Client No.: YH-06 Client Description: Ceiling Plaster **Facility:**

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

None Detected 98.1 PC 1.9 Chrysotile

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

11/28/2022 Date Received:

12/02/2022 Date Analyzed:

Decyen David Signature:

David Hayes Analyst:

Dated: 12/5/2022 1:55:42

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director

Page 1 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date:

20 Duke St., Suite 109 Report No.: 673387 - PLM

Bedford NS B4A 2Z5 Project: Green Park - Yeo House

> Project No.: PE22400

12/2/2022

PLM BULK SAMPLE ANALYSIS SUMMARY

Analyst Observation: Pink/White Plaster **Location:** 2nd Level **Lab No.:** 7531300(L2)

Client No.: YH-06 Client Description: Ceiling Plaster **Facility:**

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

None Detected 1 Hair

1 Cellulose

Client: ALL131

Lab No.: 7531301 **Analyst Observation:** White Plaster Location: 3rd Level Bedroom

Client No.: YH-07 **Client Description:** Plaster Wall **Facility:**

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

None Detected 98.5 **PC 1.5** Chrysotile

Lab No.: 7531301(L2) **Analyst Observation:** Pink/White Plaster **Location:** 3rd Level Bedroom

Client No.: YH-07 **Client Description:** Plaster Wall **Facility:**

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

1 Hair None Detected

1 Cellulose

Lab No.: 7531302 **Analyst Observation:** White Plaster **Location:** 3rd Level Ceiling

Client No.: YH-08 **Client Description:** Plaster Ceiling **Facility:**

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

None Detected 97.9 **PC 2.1** Chrysotile

Lab No.: 7531302(L2) **Analyst Observation:** Pink Plaster **Location:** 3rd Level Ceiling

Client No.: YH-08 **Client Description:** Plaster Ceiling **Facility:**

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

None Detected 2 Hair 1 Cellulose

Lab No.: 7531303 Location: Sunroom **Analyst Observation:** White/Off-White Plaster

Client No.: YH-09 **Client Description:** Plaster Wall **Facility:**

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

Page 2 of 6

None Detected 100 None Detected

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

11/28/2022 Date Received:

12/02/2022 Date Analyzed:

Analyst:

Decyen Daviel Signature:

David Hayes

Dated: 12/5/2022 1:55:42

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director



Client: ALL131

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: 12/2/2022

20 Duke St., Suite 109 Report No.: 673387 - PLM

Bedford NS B4A 2Z5 Project: Green Park - Yeo House

> Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7531303(L2) Analyst Observation: Pink Plaster Location: Sunroom

Client No.: YH-09 Client Description: Plaster Wall **Facility:**

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

None Detected 1 Hair 98

1 Cellulose

Analyst Observation: Pink/White Plaster Lab No.: 7531304 **Location:** Bedroom Closet 2nd Level

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

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

Trace Cellulose None Detected

Trace Hair

Lab No.: 7531305 **Analyst Observation:** Pink/White Plaster **Location:** 2nd Level Maids Quarters

Client No.: YH-11 Client Description: Ceiling Plaster **Facility:**

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

Trace Cellulose

None Detected Trace Hair

Analyst Observation: White Plaster **Lab No.:** 7531306 **Location:** 2nd Level

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

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

None Detected 100 None Detected

Lab No.: 7531306(L2) **Analyst Observation:** Pink/White Plaster Location: 2nd Level

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

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

Page 3 of 6

2 Hair 97

None Detected 1 Cellulose

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

11/28/2022 Date Received:

12/02/2022 Date Analyzed:

Analyst:

Decyen Davice Signature: David Hayes

Dated: 12/5/2022 1:55:42

Approved By:

Frank E. Ehrenfeld, III Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/2/2022

20 Duke St., Suite 109 Report No.: 673387 - PLM

Bedford NS B4A 2Z5 Project: Green Park - Yeo 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

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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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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.

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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: 12/5/2022 1:55:42 Page 4 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/2/2022

20 Duke St., Suite 109 Report No.: 673387 - PLM

Bedford NS B4A 2Z5 Project: Green Park - Yeo House

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.

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- 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.

Dated: 12/5/2022 1:55:42 Page 5 of 6



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/2/2022

20 Duke St., Suite 109 Report No.: 673387 - PLM

Bedford NS B4A 2Z5 Project: Green Park - Yeo 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.

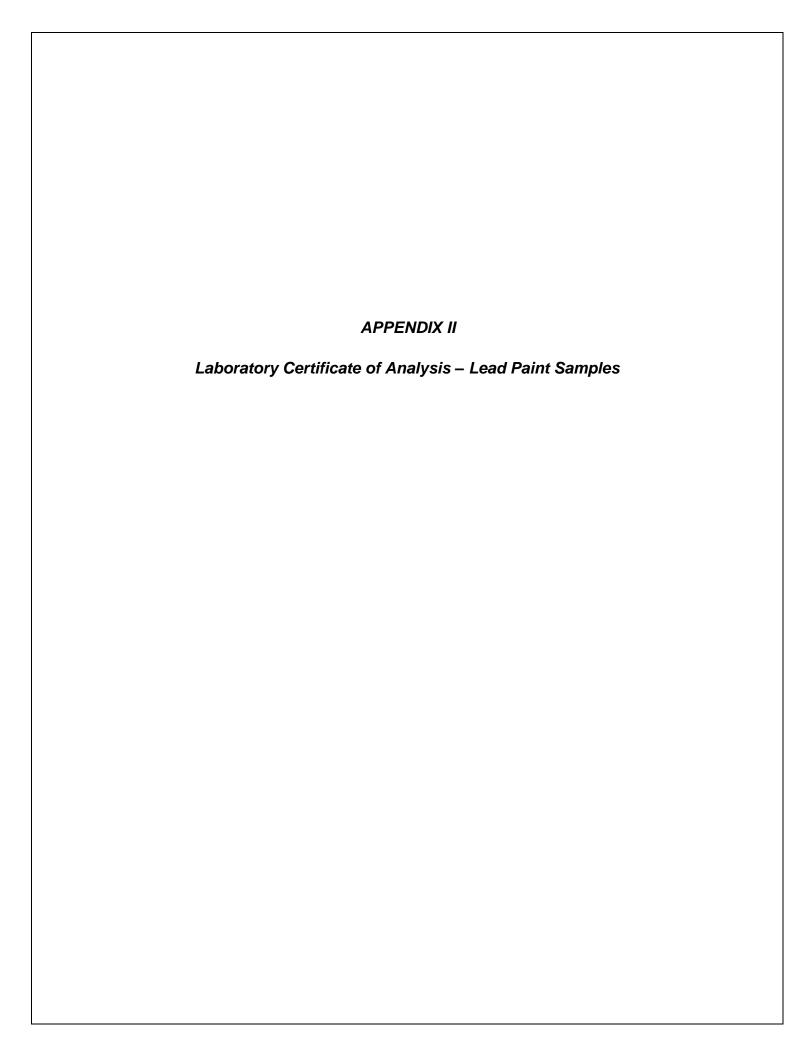
New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM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

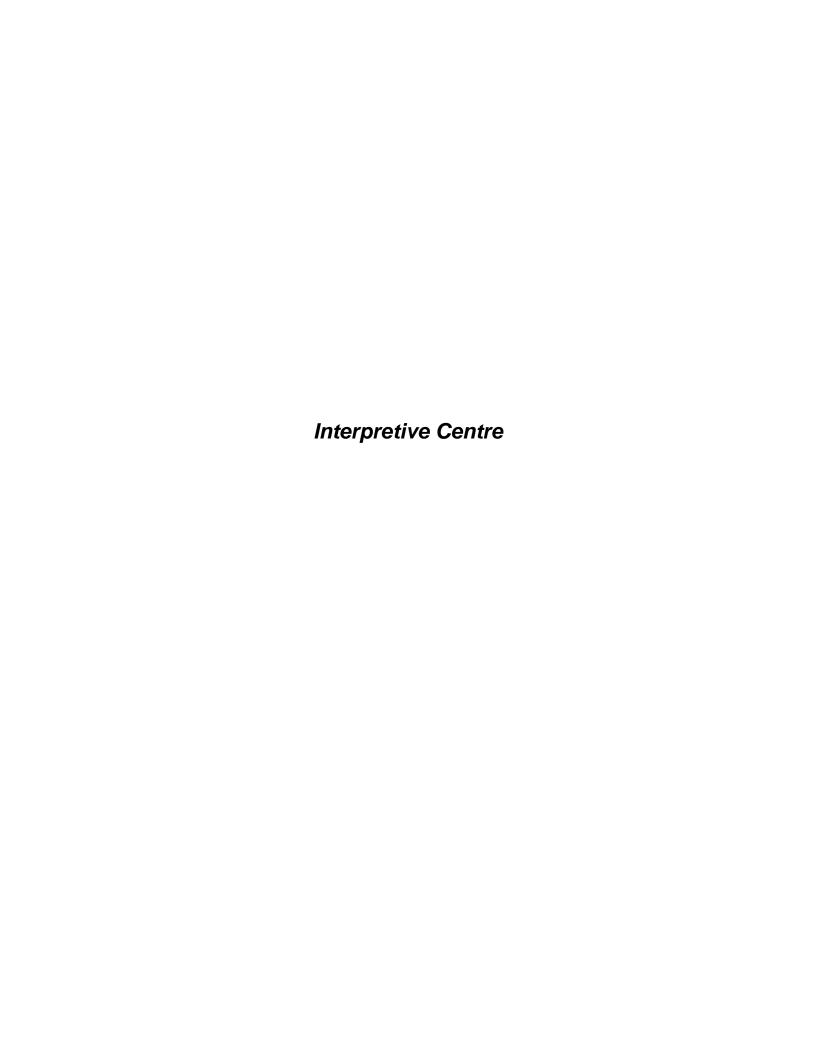
*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other that SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% 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: 12/5/2022 1:55:42 Page 6 of 6

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







Client: ALL131

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:

20 Duke St., Suite 109 Report No.: 673525 - Lead Paint

Bedford NS B4A 2Z5 Project: Green Park - Interpretive Centre

> Project No.: PE22400

12/6/2022

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7532389 **Description:** Green Paint **Result (% by Weight):** <0.0083

Result (ppm): Client No.: MUP-01 **Location:** Exterior

Comments:

Lab No.: 7532390 **Description:** White Paint Result (% by Weight): 0.010 Client No.: MUP-02 **Location:** Door Result (ppm):

Comments: ***

Lab No.: 7532391 **Description:** Black Result (% by Weight): 0.24 Result (ppm): Client No.: MUP-03 **Location:** Door Trim

Comments: ***

Lab No.: 7532392 **Description:** Cream Color Paint **Result (% by Weight):** <0.0072

Client No.: MUP-04 Location: Bathroom Result (ppm):

Comments: ***

Lab No.: 7532393 **Description:** White Paint **Result (% by Weight):** <0.0060

Client No.: MUP-05 **Location:** Ceiling Result (ppm):

Comments: ***

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

11/30/2022 Date Received:

12/06/2022 Date Analyzed:

Dated: 12/6/2022 2:13:42

Signature: Chad Shaffer Analyst:

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 3



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/6/2022

20 Duke St., Suite 109 Report No.: 673525 - Lead Paint

Bedford NS B4A 2Z5 Project: Green Park - Interpretive Centre

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 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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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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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

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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:

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Dated: 12/6/2022 2:13:42 Page 2 of 3



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/6/2022

20 Duke St., Suite 109 Report No.: 673525 - Lead Paint

Bedford NS B4A 2Z5 Project: Green Park - Interpretive Centre

Client: ALL131 Project No.: PE22400

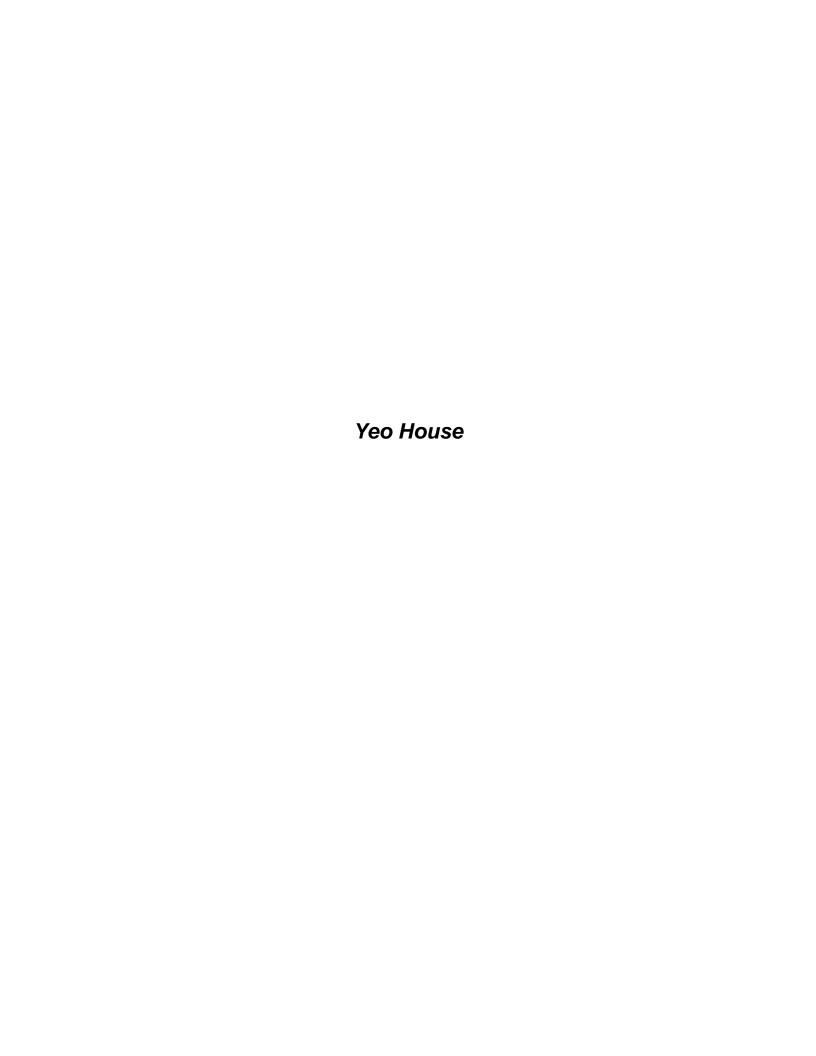
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** Not enough sample provided to analyze (<50 mg)

*** 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: 12/6/2022 2:13:42 Page 3 of 3





Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/5/2022

20 Duke St., Suite 109 Report No.: 673347 - Lead Paint
Bedford NS B4A 2Z5 Project: Green Park - Yeo House

Client: ALL131 Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7530846 **Description:** Green Paint Result (% by Weight): 0.060 Client No.: YHP-01 **Location:** Outside Result (ppm): 600 Comments: **Lab No.:** 7530847 **Description:** Yellow Paint Result (% by Weight): 0.062 Client No.: YHP-02 **Location:** Outside Result (ppm): 620 Comments: Lab No.: 7530848 **Description:** White Paint Result (% by Weight): 0.13 Client No.: YHP-03 **Location:** 1st Level **Result (ppm):** 1300 Comments: **Lab No.:** 7530849 **Description:** Dk Brown Paint Result (% by Weight): 16 Client No.: YHP-04 **Location:** Door Trims **Result (ppm):** 160000 Comments: *** **Description:** Pink Paint Wall Result (% by Weight): 0.28 **Lab No.:** 7530850 Client No.: YHP-05 Location: Result (ppm): Study Comments: *** **Lab No.:** 7530851 Result (% by Weight): 0.041 **Description:** Cream Client No.: YHP-06 **Location:** Ceiling Trims Result (ppm): Comments: *** **Lab No.:** 7530852 **Description:** Cream Color Wall Result (% by Weight): 0.73 Client No.: YHP-07 **Location:** 2nd Level Result (ppm): Comments: *** Result (% by Weight): 1.6 Lab No.: 7530853 **Description:** White Client No.: YHP-08 Location: Window Trims Result (ppm): 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

Dated: 12/5/2022 2:30:40

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 4



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: 12/5/2022

Report No.: 673347 - Lead Paint
Project: Green Park - Yeo House

Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7530854 Description: White Paint Ceiling Result (% by Weight): <0.0070

Client No.: YHP-09 Location: 3rd Level Result (ppm): <70

Comments: ***

Lab No.: 7530855 Description: White Paint Result (% by Weight): <0.0049

Client No.: YHP-10 Location: Sunroom Result (ppm): <49

Comments:

Lab No.:7530856Description:Brown TrimsResult (% by Weight):0.15Client No.:YHP-11Location:SunroomResult (ppm):1500

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: Chad Shaffer

Analyst: Chad Shaffer

Dated: 12/5/2022 2:30:40

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 2 of 4



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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/5/2022

20 Duke St., Suite 109 Report No.: 673347 - Lead Paint
Bedford NS B4A 2Z5 Project: Green Park - Yeo House

Client: ALL131 Project No.: PE22400

Appendix to Analytical Report:

Customer Contact:

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

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Sample Matrix: Paint

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Certification:

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- NYSDOH-ELAP No. 11021

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Dated: 12/5/2022 2:30:40 Page 3 of 4



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: 12/5/2022

Report No.: 673347 - Lead Paint
Project: Green Park - Yeo 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).

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Client: ALL131

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: 12/6/2022

20 Duke St., Suite 109 Report No.: 673526 - Lead Paint

Bedford NS B4A 2Z5 Project: Green Park - Blacksmith Shop

> Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: **Description:** White Paint **Result (% by Weight):** <0.0064 7532394

Client No.: BSP-01 **Location:** Result (ppm):

Comments:

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

Date Received: 11/30/2022

12/06/2022 Date Analyzed:

Signature: Chad Shaffer

Analyst:

Dated: 12/6/2022 2:14:27

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 3



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited Report Date: 12/6/2022

20 Duke St., Suite 109 Report No.: 673526 - Lead Paint

Bedford NS B4A 2Z5 Project: Green Park - Blacksmith Shop

Project No.: PE22400

Client: ALL131

Appendix to Analytical Report:

Customer Contact:

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

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Client: ALL-TECH Environmental Services Limited Report Date:

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Bedford NS B4A 2Z5 Project: Green Park - Blacksmith Shop

Project No.: PE22400

12/6/2022

Client: ALL131

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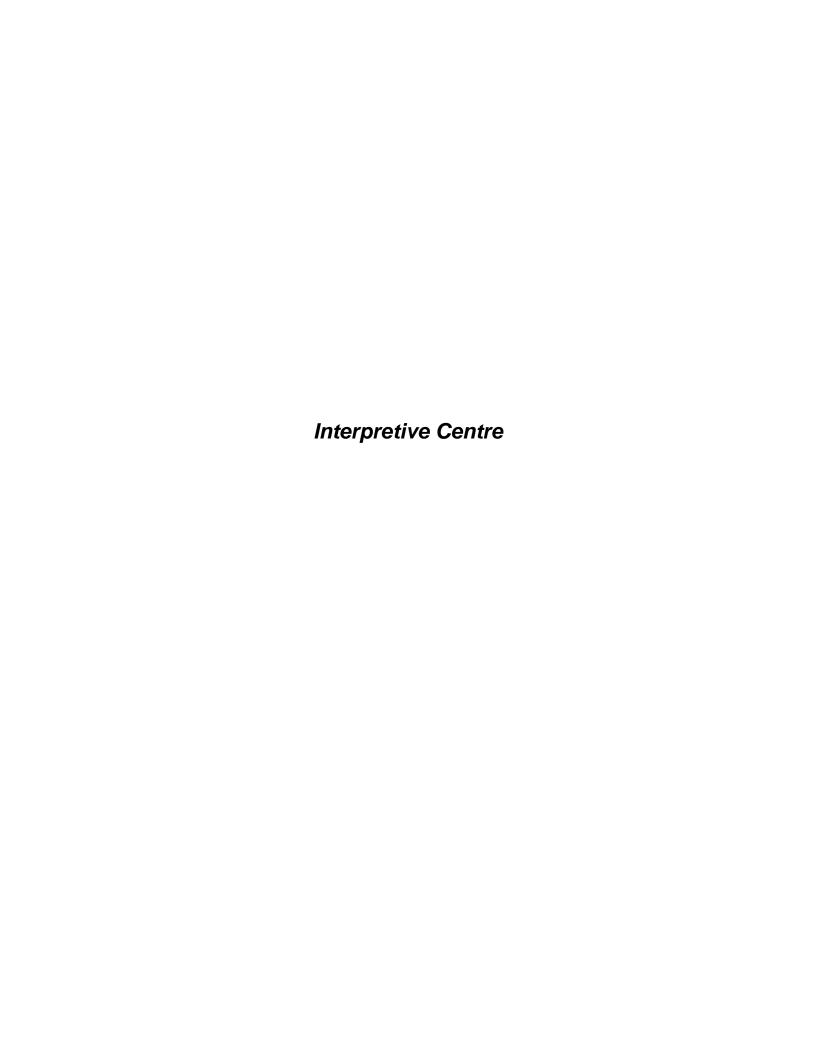
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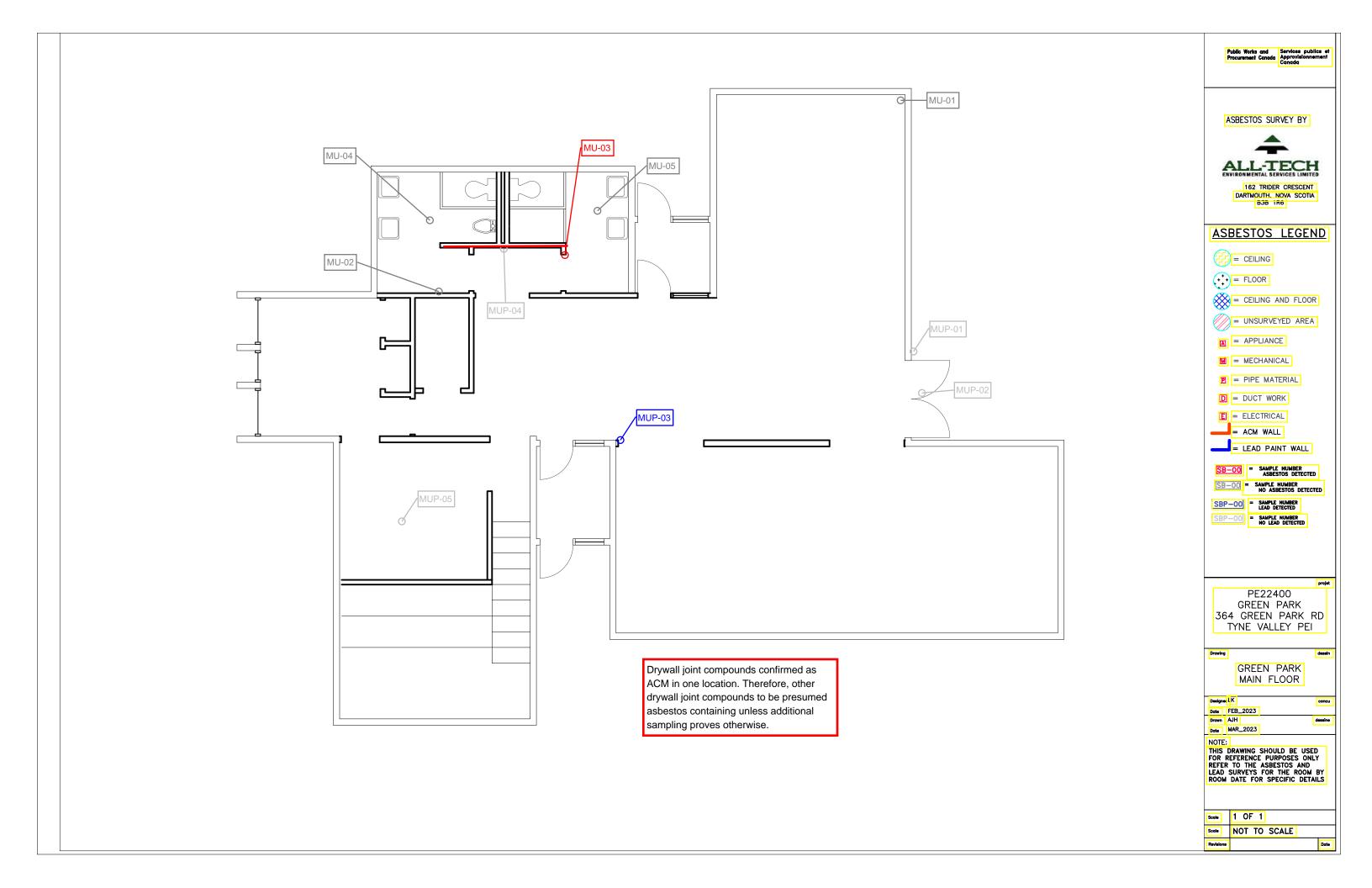
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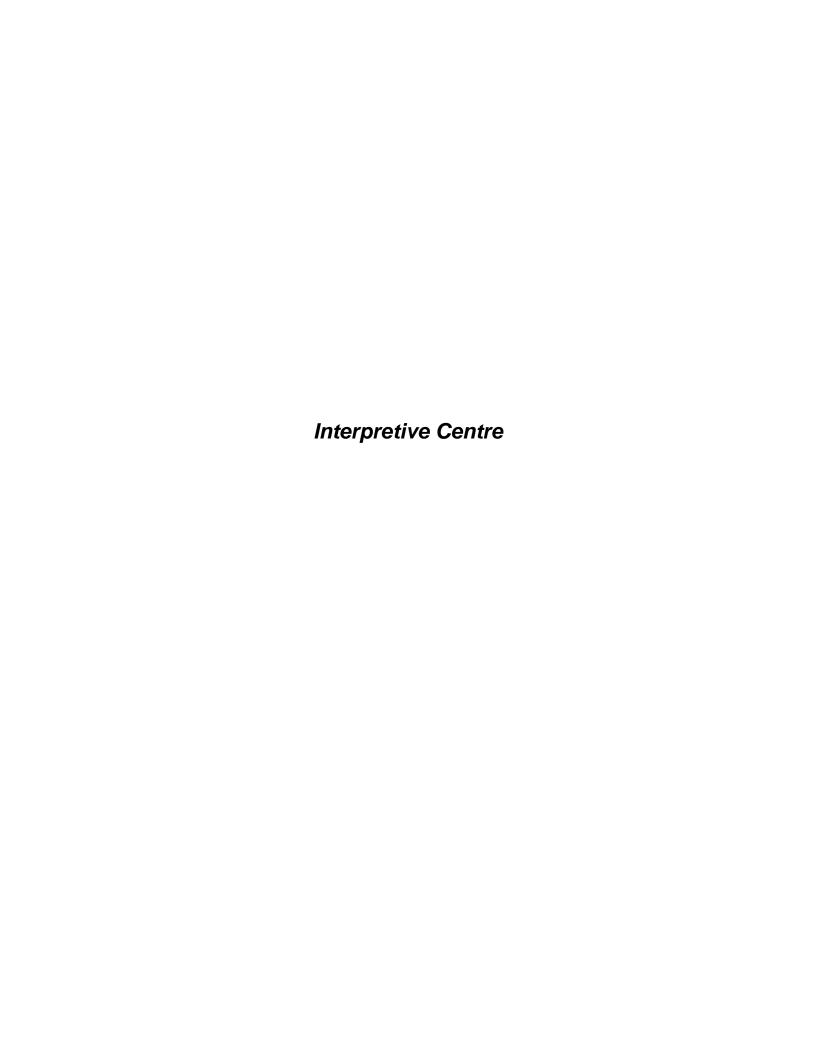
Dated: 12/6/2022 2:14:28 Page 3 of 3











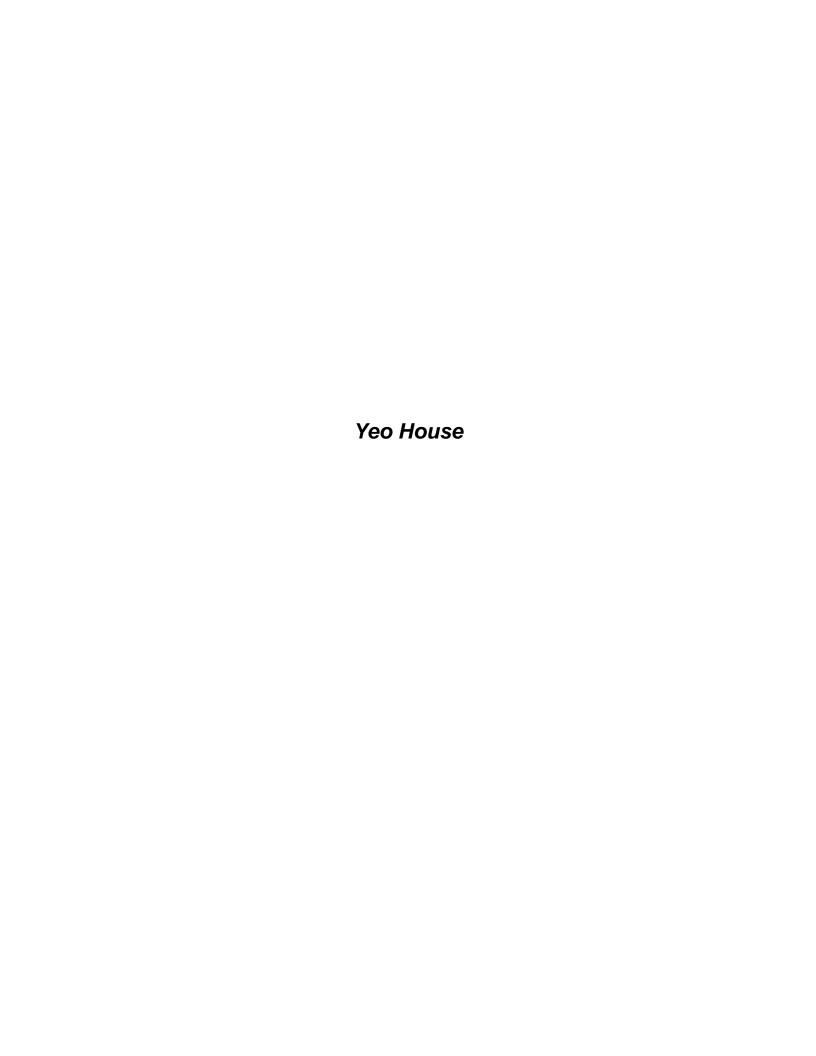
Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated area	Friable (F) Non- friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
NA	Outside washroom	MU-03	Drywall joint compound	Chrysotile 1.3%		F	Α	good	5	MU-03 Inhusto Bath room Dic

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

LEGEND									
Sample No	umber Identifiers		Units						
MU-##	actual sample number		EA	Each					
VMU-##	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	GOOD	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										

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.									



	G	reen Pa	ark Yeo House -	Summary	of ACM (Condi	itions	Repor	t (2022)	
Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated area	Friable (F) Non- friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
NA	2nd level	YH-06	Ceiling plaster	Chrysotile 1.9%		F	Α	good	5	V H-06 Celling Plaster Ras Level
NA	2nd level	YH-07	Wall plaster	Chrysotile 1.5%		F	Α	good	5	Na. 27 Poster Poster
NA	3rd level	YH-08	Ceiling plaster	Chrysotile 2.1%		F	А	good	5	YHP od 3rd level ceiled
NA	3rd level	VYH-08	Wall plaster	Chrysotile 2.1%		F	А	good	5	

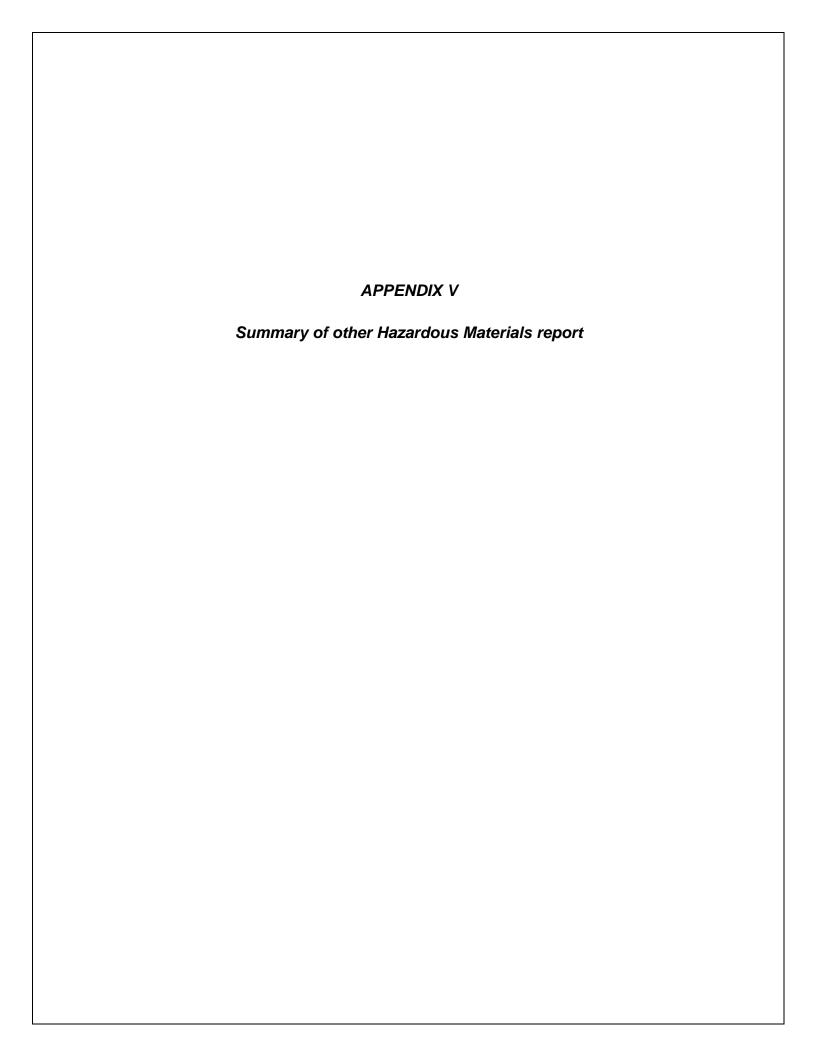
^{**} All other plaster areas within the building treated as asbestos containing or have additional testing completed in those areas at the time of planned work**

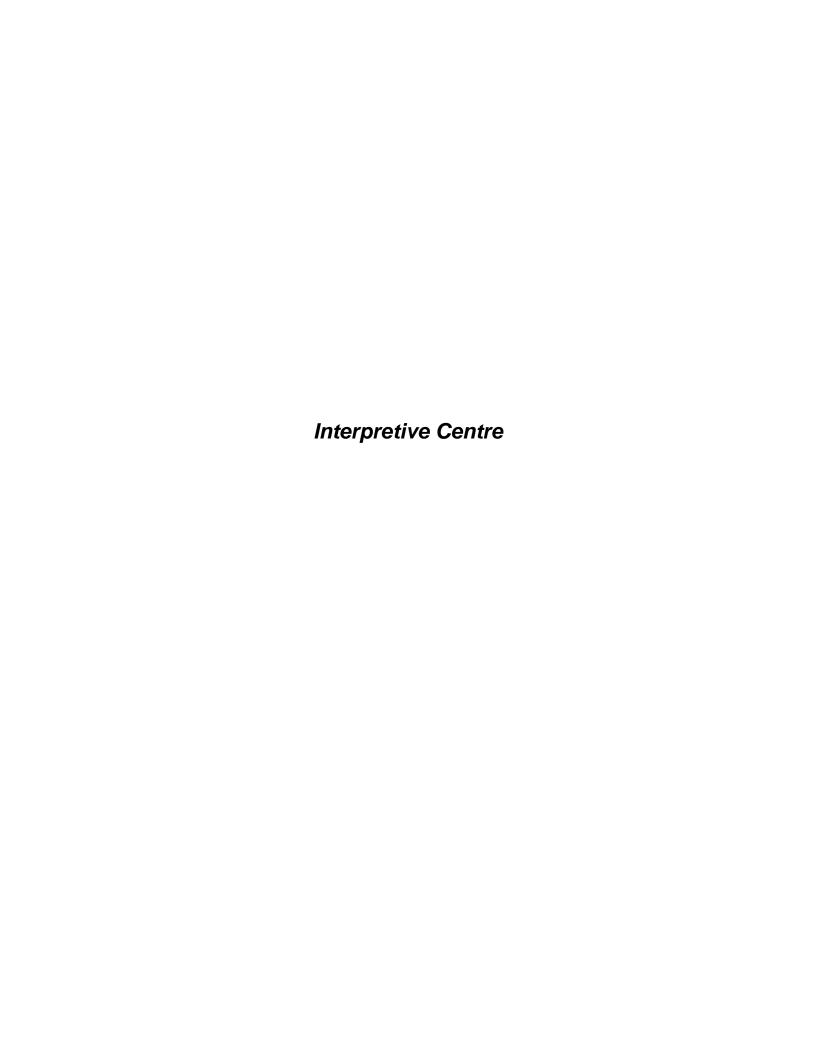
LEGEN	LEGEND								
Sample Number Identifiers									
YH-##	actual sample number								
VYH-##	visually identified same as this sample number								

Units	
EA	Each
m	meters
m2	square metres
m3	cubic metres
PACM	presumed asbestos containing material

	ASSSESSMENT CODES										
ACCESS		CONDITION									
Α	Accessible to all building occupants	GOOD	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	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.										





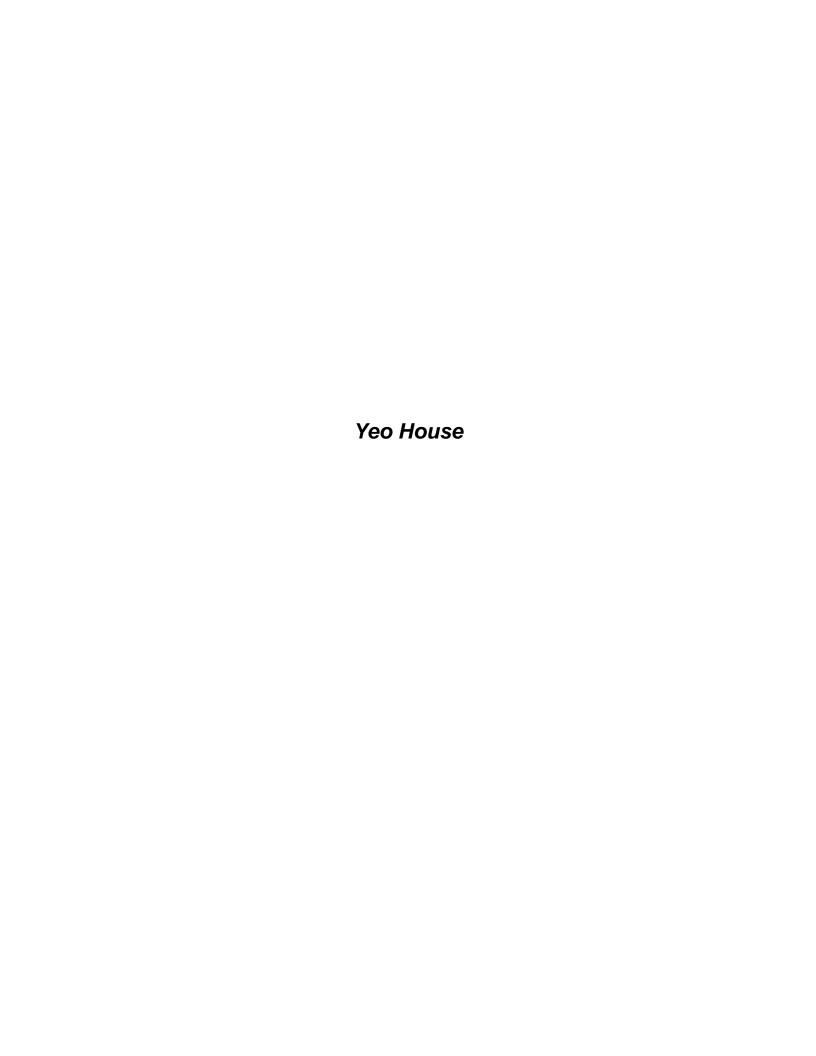
Green Park Interpretive Centre - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Main Level	MUP-03	Black paint / Wood door trims	0.24	All black door trim paints to be treated as lead based paint	MUP.03 Black wor Tring

Silica

Room No.	Location	Sample No. Material		Comments	Photo
NA	Exterior	NA	Concrete footing		



Green Park Yeo House - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Exterior	YHP-01	Green paint / Exterior wood	0.06	All exterior siding paint to be treated as lead based paint	YAP OI 9
NA	Exterior	YHP-02	Yellow paint / Exterior wood siding	0.062	All exterior siding paint to be treated as lead based paint	VHR CE JEO OW Pulm SA
NA	1st level	YHP-03	White paint / Wall surface	0.13	All white painted wall surfaces to be treated as lead based paint	Hyp. p3 White parts for level

NA		YHP-04	Dark brown paint / Wood door trim	16	All dark brown painted trim surfaces to be treated as lead based paint	YMP. 044 Dark Brow Thins
NA	Study	YHP-05	Pink paint / Wall surface	0.28	All pink painted wall surfaces to be treated as lead based paint	YHP.08 Dire paint oour proces Study
NA	2nd level	YHP-07	Cream colour paint / Wall surface	0.73	All cream coloured painted wall surfaces to be treated as lead based paint	Generaling which and send
NA		YHP-08	White paint / Window trim	1.6	All white painted window trim surfaces to be treated as lead based paint	Htp.08 Whit window Trubi

Sunroom	YHP-11	Brown paint / Trim paint	0.15	All brown painted trim surfaces to be treated as lead based paint	YHPICE B Sun Ruch Browthins
---------	--------	-----------------------------	------	---	-----------------------------------

NA

Silica

Room No.	Location	ocation Sample No. Material		Comments	Photo
NA	Exterior; basement	NA	Concrete footing and floor in basement		