

HAZARDOUS MATERIALS SURVEY AND 2023 REASSESSMENT 200 LEES AVENUE, OTTAWA, ONTARIO



Project No.: Z1920014HZ / CCC-230252-00

Prepared for:

University of Ottawa

Prepared by:

McIntosh Perry Limited (MPL)

MPL Contact:

John Tufts, Project Manager

Hazardous Materials / Environmental Health & Safety

T: 613-836-2184 E: j.tufts@mcintoshperry.com

Date:

X date, 2023

McINTOSH PERRY

TABLE OF CONTENTS

REASSESSMENT SURVEY 2023	I
EXECUTIVE SUMMARY	II
1.0 INTRODUCTION	1
2.0 PROPERTY DESCRIPTION	1
3.0 FINDINGS & RECOMMENDATIONS	2
<i>Designated Substances</i>	2
3.1 Asbestos	2
3.1.1 Fireproofing	8
3.1.2 Mechanical Pipe Insulation	8
3.1.3 Flexible Duct Connector	9
3.1.4 Heat Shield or Heat Shield Insulation	9
3.1.5 Texture Finishes	9
3.1.6 Plaster	9
3.1.7 Drywall Joint Compound	10
3.1.8 Ceiling Tiles	10
3.1.9 Vinyl Floor Tiles	10
3.1.10 Levelling Compound	11
3.1.11 Concrete Block Mortar	11
3.1.12 Ceramic Wall / Floor Tile Grout	11
3.1.13 Transite (Asbestos Cement)	12
3.1.14 Caulking	12
3.1.15 Cementitious Coating	12
3.1.16 Mastic	12
3.1.17 Tar	12
3.1.18 Fire Door	12
3.1.19 Roofing Material	12
3.2 Lead	14
3.2.1 Paint Finishes	14

3.2.2	Battery Packs	15
3.2.3	Lead Shielding.....	15
3.3	<i>Mercury</i>	16
3.3.1	Thermostat Switches.....	16
3.3.2	Fluorescent Light Tubes	17
3.3.3	Pressure Gauges and Float Switches.....	17
3.4	<i>Silica</i>	17
3.5	<i>Polychlorinated Biphenyls (PCBs)</i>	18
3.5.1	Light Ballasts	18
3.5.2	Transformers	18
3.6	<i>Ozone Depleting Substances (ODSs) and Other Halocarbon</i>	18
3.7	<i>Radioactive Materials</i>	19
3.8	<i>Underground and Above Ground Storage Tanks (USTs and ASTs)</i>	19
3.9	<i>Mould</i>	19
3.9.1	Mould.....	19
3.9.2	Water Damage.....	19
4.0	GENERAL CONSIDERATIONS AND LIMITATIONS	21

Appendix A – Regulatory Requirements
Appendix B – Survey Methodology & Background Information
Appendix C – Laboratory Certificate of Analysis
Appendix D– Site Photographs
Appendix E – Asbestos Containing Materials Checklist
Appendix F – Hazardous Containing Materials Checklist
Appendix G – Site Sampling & Location Plans

REASSESSMENT SURVEY 2023

This building is unoccupied and has been since the previous reassessment in 2022. There are no changes to the quantity, condition or location of any previously identified Hazardous Building Materials, including asbestos.

EXECUTIVE SUMMARY

McIntosh Perry Limited (**MPL**) was retained by the University of Ottawa to complete a hazardous materials survey for the University building located at 200 Lees Avenue in Ottawa, Ontario. The survey was conducted between September 30th to October 3rd, 2019. **The Reassessment Survey was conducted on x date, 2023.**

The purpose of the survey was to determine the presence of building materials containing Designated Substances and other hazardous materials, as defined under the Ontario Occupational Health and Safety Act. Designated Substances are eleven chemical agents prescribed under Ontario Regulation 490/09. In addition, a visual assessment was conducted for the presence of polychlorinated biphenyls (PCBs), radioactive materials, ozone-depleting substances (ODSs), other halocarbons and mould.

Based on the assessment conducted by MPL, the following asbestos-containing materials (ACMs) were identified or suspected to be present in the building:

Table A: Summary of Asbestos-Containing Materials Identified

Material Description	Friable?	Location	Type of Asbestos
Mechanical Pipe Insulation	Yes	Specific Areas Only	Chrysotile
Plaster	Yes	Specific Areas Only	Tremolite
Gaskets	No	Specific Areas Only	Chrysotile
Interior Window Caulking	No	Specific Areas Only	Chrysotile
Vinyl Floor Tiles	No	Specific Areas Only	Chrysotile
Transite	No	Specific Areas Only	Suspected
Fire doors	-	Throughout Building	Suspected
Roofing Materials	-	Building Exterior	Suspected

Note: Please refer to the complete report for specific details and recommendations.

All repairs or removal of ACMs must be conducted according to Ontario Regulation 278/05, Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations - made under the Occupational Health and Safety Act. Asbestos-containing waste must also be handled and disposed of according to Ontario Regulation 347/90 as amended – made under the Environmental Protection Act. Any suspect building materials encountered that were not assessed as part of this survey should be assumed to contain asbestos until proven otherwise by analytical testing;

Sub-trades working with or in close proximity to ACMs should be informed of their presence;

Given that ACMs have been identified and will likely remain in place, an Asbestos Management Plan is required, and an ACMs inventory must be kept on site. All ACMs must be routinely inspected to ensure no damage has occurred, and the inventory must be updated once in each 12-month period and as may be required based on expected changing site conditions, abatement and/or renovation activities.

Based on the assessment conducted by MPL, the following Designated Substances and Hazardous Materials were identified or suspected to be present in the building:

Table B: Summary of Designated Substances & Hazardous Materials Identified

Material Description	Location
Lead Paint	Specific Areas Only
Lead Acid Batteries	Throughout Building
Mercury Vapour	Throughout Building
Ozone Depleted Substances	Specific Areas Only
Radioactive Materials	Specific Areas Only
Mould	Specific Areas Only

Note: Please refer to the complete report for specific details and recommendations.

Designated Substances area regulated under Ontario Regulation 490/09 — Designated Substances, made under the Ontario Health and Safety Act, which applies to controlling designated substances in the workplace.

In addition to Ontario Regulation 490/09, the following guidelines must also be adhered to when conducting work activities that involve disturbance of the materials mentioned above:

- Guideline: Lead on Construction Projects, issued April 2011 by the Occupational Health and Safety branch of the Ministry of Labour
- Guideline: Silica on Construction Projects issued April 2011 by the Occupational Health and Safety branch of the Ministry of Labour.
- Environmental Abatement Council of Canada (EACC) Mould Abatement Guidelines.

Prior to any renovations or demolition activities throughout the building, designated substances and hazardous materials must be decommissioned by a licensed contractor such that they are contained and not released to the environment during decommissioning as per O. Reg. 347/09- made under the Environmental Protection Act.

Any suspect building materials encountered that were not assessed as part of this survey should be assumed to contain designated substances or hazardous materials until proven otherwise by analytical testing.

This report should be made available to contractors tendering on any renovation or demolition work. In turn, all contractors requesting tenders from subcontractors shall furnish this report to subcontractors.

This executive summary is not to be used alone. This report should be reviewed in its entirety.

McINTOSH PERRY

X date, 2023

University of Ottawa

141 Louis Pasteur Private
Ottawa, Ontario
K1N 1E3

Via email: martine.bergeron@uottawa.ca

Attention: Martine Bergeron, Health and Safety Officer

Re: 200 Lees Avenue in Ottawa, Ontario
Hazardous Materials Survey and 2023 Reassessment
McIntosh Perry Limited Reference No. Z1920014HZ / CCC-230252-00

1.0 INTRODUCTION

Under your instructions, McIntosh Perry Limited (MPL) carried out a Hazardous Materials Survey and 2023 Reassessment at the university building located at 200 Lees Avenue in Ottawa, Ontario. The survey of the building was conducted from September 30th to October 2nd, 2019. **The Reassessment Survey was conducted on x date, 2023.**

The purpose of the survey was to determine the presence of building materials containing Designated Substances and other hazardous materials, as defined under the Ontario Occupational Health and Safety Act. Designated Substances are eleven chemical agents prescribed under Ontario Regulation 490/09. In addition, a visual assessment was conducted for the presence of polychlorinated biphenyls (PCBs), radioactive materials, ozone-depleting substances (ODSs), other halocarbons and mould.

MPL completed the following,

- Visual review of the building to identify materials which could contain Designated Substances and hazardous materials;
- Bulk sampling and analysis of building materials suspected of containing asbestos (if required),
- Bulk sampling and analysis of representative paints and finishes suspected of containing lead (if required); and
- Recommendations for appropriate action where required.

2.0 PROPERTY DESCRIPTION

The subject building comprises five distinct premises (A, B, C, D and E) that are interconnected and range from one to three storeys. The subject building was observed to be constructed with a concrete slab floor; metal roof supported by steel trusses, beams and columns. The interior walls were gypsum wallboard and concrete

block, with select areas containing ceramic tiles. Throughout the subject building, ceilings were observed to be suspended ceiling tiles, while open ceilings were observed in other areas of the building. The floors were generally concrete throughout the subject building except for select units containing vinyl floor tiles, terrazzo flooring, laminate flooring and carpet. Buildings A to D were constructed circa 1963, while Building E was constructed circa 1980.

3.0 FINDINGS & RECOMMENDATIONS

Designated Substances

3.1 Asbestos

Findings

A total of one-hundred and fifty (150) bulk samples were collected during the survey and sent to an accredited laboratory for analysis. A summary of potential asbestos-containing samples collected along with the sample location, type and friability are presented in Table 1.

The following subsections and tables outline our findings on ACMs throughout the subject building. The Laboratory Certificate of Analysis for asbestos is included in Appendix C.

Table 1:
Asbestos Sampling Laboratory Results

Sample ID	Location	Material	Type and Content	Friability
BS 1.1	Room A02	Gasket (Beige)	65% Chrysotile	Non-Friable
BS 1.2	Room A02	Gasket (Beige)	Stop Positive	Non-Friable
BS 1.3	Room A02	Gasket (Beige)	Stop Positive	Non-Friable
BS 2.1	Room 104C	Mechanical Pipe Fitting Insulation (Grey)	60% Chrysotile	Friable
BS 2.2	Room 104C	Mechanical Pipe Fitting Insulation (Grey)	Stop Positive	Friable
BS 2.3	Room 104C	Mechanical Pipe Fitting Insulation (Grey)	Stop Positive	Friable
BS 3.1	Room A105	Mechanical Pipe insulation (Brown)	10% Chrysotile	Friable
BS 3.2	Room A105	Mechanical Pipe insulation (Brown)	Stop positive	Friable
BS 3.3	Room A105	Mechanical Pipe insulation (Brown)	Stop positive	Friable
BS 4.1	Room A140	Floor levelling compound (Brown/Black)	None Detected	N/A
BS 4.2	Room A140	Floor levelling compound (Brown/Black)	None Detected	N/A
BS 4.3	Room A140	Floor levelling compound (Brown/Black)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 5.1	Room A139	Wall Plaster (Gray)	None Detected	N/A
BS 5.2	Room A139	Wall Plaster (Gray)	None Detected	N/A
BS 5.3	Room A139	Wall Plaster (Gray)	None Detected	N/A
BS 6.1	Room A144	High Traffic Floor Coating (Beige)	None Detected	N/A
BS 6.2	Room A144	High Traffic Floor Coating (Beige)	None Detected	N/A
Bs 6.3	Room A144	High Traffic Floor Coating (Beige)	None Detected	N/A
BS 7.1	Room A139	Window Caulking (Black)	2% Chrysotile	Non-Friable
BS 7.2	Room A139	Window Caulking (Black)	Stop Positive	Non-Friable
BS 7.3	Room A139	Window Caulking (Black)	Stop Positive	Non-Friable
BS 8.1	Room A136	VFT (12"x12"- Off-White with Gray & Black streak)	None Detected	N/A
BS 8.2	Room A136	VFT (12"x12"- Off-White with Gray & Black streak)	None Detected	N/A
BS 8.3	Room A136	VFT (12"x12"- Off-White with Gray & Black streak)	None Detected	N/A
BS 9.1	Room A138E	VFT (12"x12"-Beige with Brown & Grey Flakes)	None Detected	N/A
BS 9.2	Room A138E	VFT (12"x12"-Beige with Brown & Grey Flakes)	None Detected	N/A
BS 9.3	Room A138E	VFT (12"x12"-Beige with Brown & Grey Flakes)	None Detected	N/A
BS 10.1	Room A122B	VFT (12"x12"- Olive Green with Grey Flakes)	None Detected	N/A
BS 10.2	Room A122B	VFT (12"x12"- Olive Green with Grey Flakes)	None Detected	N/A
BS 10.3	Room A122B	VFT (12"x12"- Olive Green with Grey Flakes)	None Detected	N/A
BS 11.1	Room A147	VFT (12"x12" – Grey with Blue Streaks)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 11.2	Room A147	VFT (12"x12" – Grey with Blue Streaks)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 11.3	Room A147	VFT (12"x12" – Grey with Blue Streaks)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 12.1	Room A122B	VFT (12"x12" – Off-White with Brown flakes)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 12.2	Room A122B	VFT (12"x12" – Off-White with Brown flakes)	None Detected	N/A
BS 12.3	Room A122B	VFT (12"x12" – Off-White with Brown flakes)	None Detected	N/A
BS 13.1	Room A142	Concrete Block Mortar (Grey)	None Detected	N/A
BS 13.2	Room A142	Concrete Block Mortar (Grey)	None Detected	N/A
BS 13.3	Room A142	Concrete Block Mortar (Grey)	None Detected	N/A
BS 14.1	Room A106C	Wall Tile Grout (Grey)	None Detected	N/A
Bs 14.2	Room A106C	Wall Tile Grout (Grey)	None Detected	N/A
BS 14.3	Room A106C	Wall Tile Grout (Grey)	None Detected	N/A
BS 15.1	Room A139	Wall Texture Coating (Grey)	None Detected	N/A
BS 15.2	Room A139	Wall Texture Coating (Grey)	None Detected	N/A
BS 15.3	Room A139	Wall Texture Coating (Grey)	None Detected	N/A
BS 15.4	Room A139	Wall Texture Coating (Grey)	None Detected	N/A
BS 15.5	Room A139	Wall Texture Coating (Grey)	None Detected	N/A
BS 15.6	Room A139	Wall Texture Coating (Grey)	None Detected	N/A
BS 15.7	Room A139	Wall Texture Coating (Grey)	None Detected	N/A
BS 16.1	Room A36	SCT (2'x4' - Fissures)	None Detected	N/A
BS 16.2	Room A36	SCT (2'x4' - Fissures)	None Detected	N/A
BS 16.3	Room A36	SCT (2'x4' - Fissures)	None Detected	N/A
BS 17.1	Room A106	SCT (2'x4' – Pinholes with Large Fissures)	None Detected	N/A
BS 17.2	Room A106	SCT (2'x4' – Pinholes with Large Fissures)	None Detected	N/A
BS 17.3	Room A106	SCT (2'x4' – Pinholes with Large Fissures)	None Detected	N/A
BS 18.1	Room A106C	VFT (12"x12"-Red with Flakes)	None Detected	N/A
BS 18.1	Room A106C	Mastic	None Detected	N/A
BS 18.2	Room A106C	VFT (12"x12"-Red with Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 18.3	Room A106C	VFT (12"x12"-Red with Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 19.1	Room B202B	Carpet Mastic (Brown)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 19.2	Room B202B	Carpet Mastic (Brown)	None Detected	N/A
BS 19.3	Room B202B	Carpet Mastic (Brown)	None Detected	N/A
BS.20.1	Room BS215E	VFT (2'x2' -Off-White)	None Detected	N/A
BS.20.2	Room BS215E	VFT (2'x2' -Off-White)	None Detected	N/A
BS.20.3	Room BS215E	VFT (2'x2' -Off-White)	None Detected	N/A
BS 21.1	Room B215N	Wall Plaster (Gray)	None Detected	N/A
BS 21.2	Room B215N	Wall Plaster (Gray)	1% Tremolite	Friable
BS 21.3	Room B215N	Wall Plaster (Gray)	Stop Positive	Friable
BS 22.1	Room C209	VFT (12"x12"- Off-White with Grey & Black Flakes)	None Detected	N/A
BS 22.1	Room C209	Mastic (Black)	None Detected	N/A
BS 22.2	Room C209	VFT (12"x12"- Off-White with Grey & Black Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 22.3	Room C209	VFT (12"x12"- Off-White with Grey & Black flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 23.1	Room C209	VFT (12"x12"- Beige with Multicolor Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 23.2	Room C209	VFT (12"x12"- Beige with Multicolor Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 23.3	Room C209	VFT (12"x12"- Beige with Multicolor Flakes)	None Detected	N/A
		Mastic	None Detected	N/A
BS 24.1	C200 Hallway	VFT (12"x12" – Off-White with Grey Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 24.2	C200 Hallway	VFT (12"x12" – Off-White with Grey Flakes)	None Detected	N/A
BS 24.2	C200 Hallway	Mastic (Black)	None Detected	N/A
BS 24.3	C200 Hallway	VFT (12"x12" – Off-White with Grey Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 25.1	Room C115	VFT (12"x12"- Pink with Dots)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
		Mastic (Black)	None Detected	N/A
BS 25.2	Room C115	VFT (12"x12"- Pink with Dots)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 25.3	Room C115	VFT (12"x12"- Pink with Dots)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 26.1	Room E041	VFT (12"x12"-Off-White with Blue Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 26.2	Room E041	VFT (12"x12"-Off-White with Blue Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 26.3	Room E041	VFT (12"x12"-Off-White with Blue Streaks)	None Detected	N/A
BS 26.3	Room E041	Mastic (Yellow)	None Detected	N/A
BS 27.1	Room E053	VFT (12"x12"-Grey with White & Light Grey Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 27.2	Room E053	VFT (12"x12"-Grey with White & Light Grey Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 27.3	Room E053	VFT (12"x12"-Grey with White & Light Grey Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 28.1	Room E244	VFT (12"x12"- Off-White with Grey Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 28.2	Room E244	VFT (12"x12"- Off-White with Grey Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 28.3	Room E244	VFT (12"x12"- Off-White with Grey Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 29.1	Room D108	12"x12"- Glued on Acoustic Ceiling Tile (Uniform Holes)	None Detected	N/A
BS 29.2	Room D108	12"x12"- Glued on Acoustic Ceiling Tile (Uniform Holes)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 29.3	Room D108	12"x12" - Glued on Acoustic Ceiling Tile (Uniform Holes)	None Detected	N/A
BS 30.1	Room D108	12"x12" - Glued on Acoustic Ceiling Tile (Uniform Holes)	None Detected	N/A
		Mastic (Brown)	None Detected	N/A
BS 30.2	Room D108	12"x12" - Glued on Acoustic Ceiling Tile (Uniform Holes)	None Detected	N/A
		Mastic (Brown)	None Detected	N/A
BS 30.3	Room D108	12"x12" - Glued on Acoustic Ceiling Tile (Uniform Holes)	None Detected	N/A
		Mastic (Brown)	None Detected	N/A
BS 31.1	Room D108	Ceiling Plaster (Grey)	None Detected	N/A
BS 31.2	Room D108	Ceiling Plaster (Grey)	None Detected	N/A
BS 31.3	Room D108	Ceiling Plaster (Grey)	None Detected	N/A
BS 32.1	Room B100	Sprayed Insulation (Grey)	None Detected	N/A
BS 32.2	Room C141C	Sprayed Insulation (Grey)	None Detected	N/A
BS 32.3	Room C141C	Sprayed Insulation (Grey)	None Detected	N/A
BS 32.4	Room C201	Sprayed Insulation (Grey)	None Detected	N/A
BS 32.5	Room C204	Sprayed Insulation (Grey)	None Detected	N/A
BS 33.1	Room A136	Drywall Joint Compound (White)	None Detected	N/A
BS 33.2	Room A139A	Drywall Joint Compound (White)	None Detected	N/A
BS 33.3	Room C115	Drywall Joint Compound (White)	None Detected	N/A
BS 33.4	Room B215	Drywall Joint Compound (White)	None Detected	N/A
BS 33.5	Room C200	Drywall Joint Compound (White)	None Detected	N/A
BS 33.6	Room E146	Drywall Joint Compound (White)	None Detected	N/A
BS 33.7	Room E053	Drywall Joint Compound (White)	None Detected	N/A
BS 34.1	Room E038	Drywall Joint Compound (White)	None Detected	N/A
BS 34.2	Room E038	Drywall Joint Compound (White)	None Detected	N/A
BS 34.3	Room E038	Drywall Joint Compound (White)	None Detected	N/A
BS 35.1	Room C115	VFT (12"x12" - Off-White with Dots)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 35.2	Room C115	VFT (12"x12" - Off-White with Dots)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
		Mastic (Black)	None Detected	N/A
BS 35.3	Room C115	VFT (12"x12"- Off-White with Dots)	None Detected	N/A
		Mastic (Black)	None Detected	N/A

N/A – Not Applicable

VFT – Vinyl Floor Tiles

SCT– Suspended Ceiling Tiles

Stop Positive – Material considered to be asbestos-containing as per O. Reg. 278/05.

Please refer to Appendix E – Asbestos-Containing Materials Checklist for material conditions, quantities (where applicable), and recommended actions. The following building materials (if present) were investigated for asbestos content:

3.1.1 Fireproofing

Sprayed fireproofing material (Grey) was observed on structural beams and walls within Rooms B100, C141C, and C201. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

Fireproofing material was previously observed and sampled from the D-Block crawlspace. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

3.1.2 Mechanical Pipe Insulation

3.1.2.1 Mechanical Pipe Straight Insulation

Mechanical pipe straight insulation was observed in between the workbenches in Room A105. The laboratory analytical results collected indicate that this material contains **10% Chrysotile asbestos**. This material is considered friable and was observed to be in poor condition.

3.1.2.2 Mechanical Piping Elbows/Fittings Insulation

Mechanical piping elbows/fitting insulation was observed on mechanical pipe fittings in Room A104C and E029. The laboratory analytical results of samples collected indicate that this material **contains 60% Chrysotile asbestos**. This material is considered friable and was observed to be in good condition, except for select areas which were observed in poor condition.

Mechanical piping elbows/fitting insulation was previously observed and sampled from the E-Block Penthouse. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

3.1.2.3 Mechanical Piping Hangers Insulation

Mechanical pipe hanger insulation was observed throughout the A Block Hallway and was visually identified to be a material not suspected to contain asbestos (i.e., fibreglass) and thus not sampled.

3.1.2.4 HVAC Duct Insulation

HVAC duct insulation was observed throughout the mechanical Rooms A02, B151, B205, D201 and E301 within the subject building visually identified as a material not suspected to contain asbestos (i.e., fibreglass) and thus not sampled.

3.1.2.5 Other Mechanical Insulation

A mechanical pipe gasket (Beige) was observed in Room A02. The laboratory analysis indicated that this material **contains 65% Chrysotile asbestos**. This material is considered to be friable and was observed to be in poor condition.

3.1.3 Flexible Duct Connector

A suspected asbestos-containing flexible duct connector was observed on an air handling unit in Mechanical Room D201. No bulk samples of the duct connectors were collected to avoid possible damage. However, this material is known to contain asbestos. This material is considered to be non-friable and was observed to be in good condition.

Flexible duct connectors were observed in various mechanical rooms throughout the subject building. This material was visually identified as non-asbestos-containing (i.e., rubber).

3.1.4 Heat Shield or Heat Shield Insulation

No heat shield insulation was observed throughout the subject building.

3.1.5 Texture Finishes

A wall texture coating was observed in Room A139. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos.

3.1.6 Plaster

Wall plaster (Grey) on diamond mesh lath was observed in Room B215N. The laboratory analytical results of samples collected indicate that this material contains **1% Tremolite asbestos**. This material is considered friable and was observed to be in fair condition. Visually similar ceiling plaster on diamond mesh lath was observed in Rooms C100D and A142, and noted it to be in poor condition.

Wall and column plaster was sampled from Room A139. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos.

Ceiling plaster (Gray) was observed on a concrete ceiling deck and sampled from Room D108. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos.

3.1.7 Drywall Joint Compound

Drywall joint compounds were observed throughout the subject building and sampled from Rooms A136, A139A, C115, B215, C200, E146, E053 and E038. The laboratory analytical results of drywall joint compound samples collected from these locations indicate that this material does not contain asbestos.

3.1.8 Ceiling Tiles

Ceiling tiles were observed in various locations throughout the subject building

- Suspended ceiling tiles (2'x4'-Pinhole with Large Fissures) were observed in Room A106. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos.
- Suspended ceiling tiles (2'x4'-Fissures) were observed in Room A036. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos.
- Glued Acoustic Ceiling Tile (12"x12"-with Uniform Holes) was observed throughout the Men's Change Room in D108. The laboratory analytical results of the samples collected indicate that this material and its associated mastic (Brown) do not contain asbestos.

3.1.9 Vinyl Floor Tiles

Several different types of vinyl floor tiles were observed and sampled throughout the building as follows:

- Vinyl floor tiles (12"x12"-White w/ Beige Spots) were previously identified to contain 6.5% Chrysotile asbestos, which was observed in Room C144 and C110. This material is considered non-friable and was observed to be in poor condition.
- Vinyl floor tiles (12"x12" – Red with Flakes) were observed in Room A106C. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.
- Vinyl floor tiles (2'x2' – Off-White) were observed in Room B215E. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material does not contain asbestos.
- Vinyl floor tiles (12"x12" – Off-White with Grey and Black Flakes) were observed in Room C209. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.
- Vinyl floor tiles (12"x12" – Beige with Multicolour Flakes) were observed in Room C209. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.

- Vinyl floor tiles (12"x12" – Off-White with Grey Flakes) were observed throughout the C200 Hallway. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.
- Vinyl floor tiles (12"x12" – Pink with Dots) were observed in Room C115. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.
- Vinyl floor tiles (12"x12" – Off-White with Dots) were observed in Room C115. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.
- Vinyl floor tiles (12"x12" – Off-White with Blue Streaks) were observed in Room E041. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material and its associated mastic (Yellow) do not contain asbestos.
- Vinyl floor tiles (12"x12" – Grey with White and Light Grey Streaks) were observed in Room E053. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material and its associated mastic (Yellow) do not contain asbestos.
- Vinyl floor tiles (12"x12" – Off-White with Grey Streaks) were observed in Room E224. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.

3.1.10 Levelling Compound

The floor levelling compound was sampled from Room A140. The laboratory analytical results indicate that this material does not contain asbestos.

The floor levelling compound was previously sampled from Room A122. The laboratory analytical results indicate that this material does not contain asbestos.

3.1.11 Concrete Block Mortar

Concrete block mortar was sampled from the interior of the building in Room A142. The laboratory analytical results indicate that this material does not contain asbestos.

3.1.12 Ceramic Wall / Floor Tile Grout

Ceramic wall tile (Grey) grout was sampled from the A106C. The laboratory analytical results indicate that this material does not contain asbestos.

3.1.13 *Transite (Asbestos Cement)*

Transite materials were observed as segments of conduit pipe in Room A138C. No bulk samples of the transite piping were collected to avoid possible damage. However, this material is **known to contain asbestos**. This material is considered to be non-friable and was observed to be in good condition.

3.1.14 *Caulking*

Interior window caulking (Black) was sampled from Room A139. The laboratory analytical results indicate that this material **contains 2% Chrysotile asbestos**. This material is considered non-friable and was observed to be in good condition.

3.1.15 *Cementitious Coating*

A cementitious floor levelling compound was observed in Room A140. The laboratory analytical results of cementitious coating samples collected indicate that this material does not contain asbestos.

High-traffic floor coating was observed in Room A144. The laboratory analytical results of cementitious coating samples collected indicate that this material does not contain asbestos.

3.1.16 *Mastic*

Carpet mastic (Brown) was sampled from Room B202B. The laboratory analytical results indicate that this material does not contain asbestos.

3.1.17 *Tar*

Previously identified roofing tar (Black) was sampled from the roof level of the subject building. The laboratory analytical results for the samples collected indicate that the material does not contain asbestos.

3.1.18 *Fire Door*

Fire doors were observed at various locations throughout the subject building. No bulk samples of the internal door insulation materials were collected to avoid possible damage. Prior to removal and/or replacement, fire doors should be examined and tested for asbestos content. Fire doors should be considered to contain asbestos until bulk samples and analysis until proven otherwise. All fire doors were observed to be in good condition.

3.1.19 *Roofing Material*

To avoid damage and compromising the integrity of the roofing material, no bulk samples of the roofing materials were collected. Prior to removal and/or replacement, roofing materials should be examined and tested for asbestos content. Roofing materials should be considered to contain asbestos until bulk samples and analysis until proven otherwise.

Recommendations

- ACMs identified to be in poor condition must be repaired/removed immediately, following Type 1/2/3 asbestos abatement work procedures as detailed in O. Reg. 278/05 and disposed of as asbestos waste under O. Reg. 347;
- ACMs that have been identified to be in fair condition should be either repaired (where possible) and/or closely monitored for signs of further deterioration. Depending on the type of material and location, these materials should be scheduled for removal if there is a potential risk of exposure to the worker and/or occupants;
- Materials identified to contain asbestos that are in good condition and do not pose a risk to workers or occupants can be managed in place. Prior to any renovation or demolition activities that may disturb the ACMs, these materials must be removed following appropriate Type 1/2/3 asbestos abatement work procedures as detailed in O. Reg. 278/05 and disposed of as asbestos waste under O. Reg. 347;
- Please refer to Appendix E – Asbestos-Containing Materials Checklist for material conditions, quantities (where applicable) and recommended actions.
- Prior to any renovation or demolition of materials which are assumed to be asbestos-containing (suspect materials which were not sampled, i.e., roofing materials, flexible duct connectors, fire doors and suspect transite), these materials must either be tested for asbestos content or removed following appropriate asbestos abatement work procedures (Type 1/2/3) as detailed in O. Reg. 278/05 and disposed of as asbestos waste under O. Reg. 347;
- All repairs or removal of ACMs must be conducted according to Ontario Regulation 278/05, Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations - made under the Occupational Health and Safety Act. Asbestos-containing waste must also be handled and disposed of according to Ontario Regulation 347/90 as amended – made under the Environmental Protection Act. Any suspect building materials encountered that were not assessed as part of this survey should be assumed to contain asbestos until proven otherwise by analytical testing;
- Sub-trades working with or in close proximity to ACMs should be informed of their presence; and
- Given that ACMs have been identified and will likely remain in place, an Asbestos Management Plan is required, and an ACMs inventory must be kept on site. All ACMs must be routinely inspected to ensure no damage has occurred, and the inventory must be updated once in each 12-month period and as may be required based on expected changing site conditions, abatement and/or renovation activities.

3.2 Lead

Findings

3.2.1 Paint Finishes

A total of eight (8) paint samples from the subject building were collected and analyzed for lead content. Results of bulk sampling testing are summarized in Table 2, and the Laboratory Certificate of Analysis can be found in Appendix C.

Table 2:
Lead Sampling Locations and Laboratory Results

Sample I.D.	Location	Material	Colour	Lead Concentration Weight by Conc. (%)
PB-01	A140 – Above door vent	Paint	Beige	0.0753
PB-02	A140 – Door	Paint	Blue	0.0008
PB-03	A144 – Floor	Paint	Beige	0.0173
PB-04	D109 – Wall	Paint	Maroon	<0.0019
PB-05	A122 – Wall	Paint	Black	0.0579
PB-06	D201 – Ducts	Paint	White	0.167
PB-07	B208B Wall	Paint	Green	0.0006
PB-08	E254 – Wall	Paint	Off-White	0.0020
Previously Sampled Lead Paint Finishes				
Sample I.D.	Location	Material	Colour	Lead Concentration Weight by Conc. (%)
060-D-2-LBP-013107-05	D201	Air Handling Unit	White	0.19
060-B-1-LBP-013107-09	B157	Columns	White	0.08
060-B-1-LBP-013107-13	B-Stairwell	Doors	Red	0.06
060-E-B -LBP -013107-15	E010	Walls	White	0.06
060-E-1-LBP-013107-19	Hallway E100	Doors and Frames	Blue	0.11
060-E-2-LBP-013107-22	E218	Doors and Frames	Brown	1.00
060-A-1-LBP-013107-23	A139	Walls	White	0.09

Sample I.D.	Location	Material	Colour	Lead Concentration Weight by Conc. (%)
060-A-1-LBP-013107-28	A131	Doors and Lockers	Blue	1.90
060-A-1-LBP-013107-29	Hallway at A130	Lockers	Yellow	2.90

The paint finishes highlighted in Blue in the above table were determined to contain low concentrations of lead, less than 0.1%. These paint finishes were observed to be in good to poor condition.

The paint finishes highlighted in pink in the above table are considered lead-containing paints or surface coatings with concentrations greater than 0.1%. These paint finishes were observed to be in good to poor condition.

All remaining paints tested were below the laboratory limit of detection for lead. The Laboratory Certificate of Analysis for the paint sample is also included in Appendix C.

However, all other paints throughout the subject building that are not mentioned in this report must be considered to be lead-containing unless sampling and analysis until proven otherwise.

3.2.2 Battery Packs

MPL identified lead-containing acid battery packs throughout the subject building. These battery packs were observed on walls and above exits throughout the surveyed building.

Lead may also be present in the following materials in the building:

- Solder used on copper domestic water lines;
- Solder used in bell fittings for cast iron pipes;
- Solder used in electrical equipment;
- Ceramic tile glaze; and
- Concrete and mortar products, etc.

3.2.3 Lead Shielding

Diagnostic equipment suspected to contain radioactive materials was observed within Room E029. Lead shielding material is suspected to be present throughout the walls of Room E029.

Recommendations

Paints identified to contain lead that is in poor condition must be immediately repaired and/or stabilized following a minimum Type 1/2 lead abatement procedures as per the OMOL Guideline "Lead on Construction Project" dated April 2011.

Paints identified to contain lead that are in fair condition should be either repaired (where possible) and/or closely monitored for signs of further deterioration.

Paints identified to contain lead that are in good condition and do not pose a risk to workers or occupants can be managed in place.

Detailed worker protection protocols are outlined in the OMOL Guideline “Lead on Construction Projects” dated April 2011. Generally, removing the lead-based paint using a chemical gel or paste or a power tool equipped with a HEPA filter is considered a Type 1 operation. Removing lead-based paint by scraping or sanding using non-powered hand tools is considered a Type 2 operation. The removal of lead-based paint using abrasive blasting or power tools without a HEPA filter is considered a Type 3 operation and requires the most stringent worker protection protocols (similar to asbestos); Furthermore, high-temperature cutting or welding would also require Type 3 Operations under the Guideline for Lead on Construction Projects. If this type of work is required, it may be prudent to chemically remove the lead paint in selected locations prior to performing any high-temperature cutting or welding.

All removed lead materials must follow the Ministry of Labour and Environmental Abatement Council of Canada (EACC) Lead Guidelines.

Please refer to Appendix F – Hazardous Materials Checklist for material conditions, quantities (where applicable) and recommended actions.

Precautions should be taken as required during major renovations and demolition projects to ensure that workers’ exposure levels to airborne lead do not exceed 0.05 mg/m³.

This can be achieved by:

- Provide workers with proper training;
- Providing the workers with respiratory protection;
- Wetting the surface of the materials to prevent dust emissions; and,
- Providing workers with hygiene facilities to properly wash prior to exiting the work area.

Sub-trades working with or in close proximity to lead-based paint should be informed of its presence.

All waste material must be handled and disposed of according to the Revised Regulation of Ontario 347/90 as amended – made under the Environmental Protection Act. Lead waste generated may also be subject to the Leachate Criteria (Schedule 4) of this regulation.

3.3 Mercury

Findings

3.3.1 Thermostat Switches

No thermostats containing liquid mercury were observed throughout the subject building.

3.3.2 *Fluorescent Light Tubes*

Fluorescent light fixtures were identified throughout the subject building containing 2 to 4 tubes per fixture. Mercury is likely to be present in vapour form in fluorescent light tubes.

3.3.3 *Pressure Gauges and Float Switches*

Pressure gauges containing liquid mercury in mechanical rooms were identified throughout the subject building. Suspected float switches that may contain liquid mercury were observed within Rooms A02 and C02, these were observed to be in good condition.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for material conditions, quantities (where applicable) and recommended actions.

Precautions must be taken to prevent mercury liquid/vapours from becoming airborne during building demolition. Mercury exposure is regulated under Ontario Regulation 490/09, Designated Substances - made under the Occupational Health and Safety Act." Prior to renovations to the building, all mercury-containing fluorescent light tubes, thermostats, and equipment must be removed and stored in a safe, secure location and/or properly disposed of under R.R.O. 1990, Regulation 347 General – Waste Management, made under the Environmental Protection Act.

3.4 **Silica**

Findings

Silica is expected to be present in building materials such as concrete, brick, mortar and ceramic tiles throughout the structures. Free crystalline silica (α -Quartz) may be a component in ceiling tiles and gypsum boards. Silica (including free crystalline silica) may also be a component of concrete and brick surfaces noted in the building.

Recommendations

Precautions should be taken as required during major renovations and demolition projects on concrete (i.e., coring through concrete slabs, masonry demolition, etc.) to ensure that workers' exposure levels to airborne silica do not exceed 0.05 mg/m³.

This can be achieved by:

- Provide workers with proper training;
- Providing the workers with respiratory protection;
- Wetting the surface of the materials to prevent dust emissions; and,
- Providing workers with facilities to properly wash prior to exiting the work area.

Any demolition works likely to impact silica-containing materials should be carried out under the requirement detailed in the Ontario Ministry of Labour document entitled “Guideline: Silica on Construction Projects,” dated April 2011.

Other Hazardous Materials

3.5 Polychlorinated Biphenyls (PCBs)

Findings

3.5.1 Light Ballasts

LED and fluorescent lights illuminate the subject building. Representative ballasts in the building were identified as non-PCBs content. These light ballasts were observed to be manufactured by Sylvania.

3.5.2 Transformers

No PCBs containing electrical transformers were observed throughout the subject building.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for material conditions, quantities (where applicable) and recommended actions.

Prior to any renovations, all light ballasts and HID lamps containing or suspected of containing PCBs will be affected by the work. A licensed contractor must decommission them so that PCBs are contained and not released to the environment during decommissioning and properly disposed of under R.R.O. 1990, Regulation 347 General – Waste Management, made under the Environmental Protection Act.

3.6 Ozone Depleting Substances (ODSs) and Other Halocarbon

Findings

A visual assessment was conducted to identify equipment potentially containing ODSs and other halocarbons. MPL observed standard refrigeration units within office spaces throughout the subject building. In addition to standard refrigeration units, MPL observed various equipment containing ODSs within laboratories and mechanical rooms throughout the surveyed building.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for material conditions, quantities (where applicable) and recommended actions.

Under the management of a licensed contractor, equipment containing R4100A, R407, R404, and R134A do not represent a significant threat to human health or the environment; however, a licensed contractor must decommission equipment such that CFCs are contained and not released to the environment during servicing or operation.

3.7 Radioactive Materials

Findings

A visual assessment of the subject building was conducted to determine if any electrical components containing radioactive materials were present. MPL did not observe any electrical components containing radioactive materials.

GE-brand Medical Systems diagnostic equipment containing suspected radioactive materials was observed within Room E029. This equipment was observed to be in good condition.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for material conditions, quantities (where applicable) and recommended actions.

Under the management of a licensed contractor, equipment containing radioactive materials must be decommissioned such that radioactive materials are contained and not released to the environment during decommissioning as per O.Reg. 347/09.

3.8 Underground and Above Ground Storage Tanks (USTs and ASTs)

Findings

A visual survey of the subject building they were conducted to determine if any USTs and ASTs were present. No USTs and ASTs were observed throughout the surveyed area.

Recommendations

Since no underground and/or above-ground storage tanks (USTs and ASTs) were observed or suspected to be present during the site survey, no further action is required.

3.9 Mould

Findings

3.9.1 Mould

A visual survey of the subject building was conducted to determine if any mould was present. No obvious signs of visible mould were observed throughout the subject building.

3.9.2 Water Damage

A visual survey of the subject building was conducted to determine if water damage was present. Select areas were identified throughout the subject building where materials were affected by water damage.

Recommendations

- Please refer to Appendix F – Hazardous Materials Checklist for material conditions, quantities (where applicable) and recommended actions.
- Water stained/damaged ceiling tiles, floor tiles and drywall were observed throughout the subject building and should be replaced as part of regular maintenance and the underlying cause of the water leakage should be identified and repaired.

This report should be made available to contractors tendering on any renovation or demolition work. In turn, all contractors requesting tenders from subcontractors shall furnish this report to subcontractors.

4.0 GENERAL CONSIDERATIONS AND LIMITATIONS

The information presented in this report is based on information provided by others, direct visual observation made by personnel with **McIntosh Perry Limited (MPL)**, and the results of laboratory testing as identified herein.

It should be noted that there might be hazardous materials in locations not visible during our investigation. In the event such material is encountered during demolition operations in the building, this material should be tested and dealt with accordingly.

The findings detailed in this report are based upon the information available at the time of preparation of the report. No investigative method eliminates the possibility of obtaining imprecise or incomplete information. Professional judgement was exercised in gathering and analyzing the information obtained and in the formulation of our conclusions and recommendations.

MPL does not certify or warrant the environmental status of the property nor the building on the property.

Please note that the passage of time affects the information provided in the report. Environmental conditions of a site can change. Opinions relating to the site conditions are based upon information that existed at the time that the conclusions were formulated.

The client expressly agrees that it has entered into this agreement with MPL, both on its own behalf and as agent on behalf of its employees and principals.

The client expressly agrees that MPL's employees and principals shall have no personal liability to the client in respect of a claim, whether in contract, tort and/or any other cause of action in law. Accordingly, the client expressly agrees that it will bring no proceedings and take no action in any court of law against any of MPL's employees or principals in their personal capacity.

We trust that we have detailed our findings clearly and that we have satisfactorily addressed the scope of work you require at this time. In the event you wish us to review our findings with you, or require our services further in this regard, please do not hesitate to contact our office.

Yours truly,

MCINTOSH PERRY LIMITED

Jane Zhang, M.Sc.
Hazardous Materials, EH&S Technician
Hazardous Materials/ Environmental Health & Safety



John Tufts, B.Sc.
Project Manager
Hazardous Materials/ Environmental Health & Safety

APPENDIX A

Regulatory Requirements

REGULATORY REQUIREMENTS

In Ontario, there is a total of eleven Designated Substances. These substances have been regulated under Ontario Regulation 490/09 — *Designated Substances*, made under the Ontario Health and Safety Act, which applies to controlling designated substances in the workplace.

In addition to the Ontario Regulation 490/09 noted above, the following were observed for this survey:

Guideline: Lead on Construction Projects, issued April 2011 by the Occupational Health and Safety branch of the Ministry of Labour

Guideline: Silica on Construction Projects issued in April 2011 by the Occupational Health and Safety branch of the Ministry of Labour.

The Occupational Health and Safety Act (OHSA), R.S.O. 1990, c.0.1, s.30 (1) specifies that: “Before beginning a project, the owner shall determine whether any Designated Substances are present at the project site and shall prepare a list of all Designated Substances that are present at the site.

Section 30 of The Act requires that the list of Designated Substances be provided to prospective contractors and subcontractors who may do work on a site and come into contact at the site with Designated Substances.

The Ministry of Labour has designated the following substances:

- Acrylonitrile
- Arsenic
- Asbestos
- Benzene
- Coke Oven Emissions
- Ethylene Oxide
- Isocyanates
- Lead
- Mercury
- Silica
- Vinyl Chloride

Ontario Regulation 278/05 (O. Reg. 278/05), the Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations, made under the Occupational Health and Safety Act (OHSA), requires owners of a building to identify asbestos-containing materials (ACMs) prior to potential disturbance of the materials.

In addition, an owner of a building is required to have an Asbestos Management Plan if ACMs (friable or non-friable) are present in the building and are to remain in place. An inventory of ACMs must be kept on site. All ACMs must be routinely inspected to ensure no damage has occurred, and the inventory must be updated once in each 12-month period and as may be required based on expected changing site conditions, abatement and/or renovation activities. Removal of all ACMs is required prior to building demolition.

In addition to the Designated Substances, the building was also surveyed for the presence of other hazardous materials such as polychlorinated biphenyls (PCBs), radioactive materials, ozone-depleting-substances (ODSs), other halocarbons, and mould.

We understand that this survey has been conducted to comply with the regulatory requirements of Ontario Regulation 278/05.

APPENDIX B

Survey Methodology & Background Information

SURVEY METHODOLOGY

For the purpose of this survey, not all Designated Substances or suspect hazardous materials were sampled. Selective sampling was carried out only for substances that were suspected to be present or those deemed to have a likely source of origin in the survey areas.

Materials that were homogeneous in nature and/or similar in appearance to other materials tested were considered to be of similar composition. The likelihood of ACMs being present in inaccessible areas, such as above gypsum board ceilings or behind gypsum wallboards, was determined by assessing the presence of asbestos-containing systems in adjacent areas. Equipment such as boilers, motors, blowers, electrical panels, fire doors, etc., must be de-energized or disassembled to examine internal components or materials. These items should be considered to contain hazardous materials until proven otherwise.

During the survey, representative samples of suspect building materials were collected and sent to CALA accredited independent laboratory for analysis. The Laboratory Certificate of Analysis is attached in Appendix C.

Other potential hazardous materials were identified by visual observation and/or by reviewing Material Safety Data Sheets (MSDS) and/or safety labels where available.

Investigated Areas

The survey included all accessible areas and ceiling space within 200 Lees Avenue, as required under our scope of work. No destructive investigations were performed as part of this survey. Photographs of the areas investigated can be found in Appendix D.

The assessment was directed at the interior structure and finishes of the building. It did not consider current or past owner or occupant articles throughout the building (i.e. contents, furniture, etc.) and did not report on possible contaminants in the soil under and surrounding the building or contents of vessels, drums, etc., that may be concealed.

Sampling and Assessment Methodologies

Sampling was conducted as part of this assessment. Results for asbestos and lead samples can be found in the Findings & Recommendation Section 3.0.

A historical review of previous designated substance survey reports and abatement reports were examined as part of this survey. The reports are listed as follows,

- Designated Substance Report by CM3 Environmental (dated October 2017, reference # TLW 1561);

Asbestos

Background Information on Asbestos

Asbestos is a generic name for a group of naturally occurring fibrous minerals. In the past, asbestos was commonly used in building materials such as insulation, fireproofing and acoustic.

or decorative panels. Although there are many types of asbestos, Ontario's three primary forms of commercial importance are chrysotile, amosite and crocidolite.

An ACM is defined by O. Reg. 278/05 as a material that contains 0.5% or more asbestos by dry weight. ACMs are placed into two general classes, “friable” and “non-friable” ACMs. Friable ACMs are dry materials that can be crumbled, pulverized and reduced to powder by hand pressure. Typical friable ACMs include acoustical or decorative texture coats, fireproofing and thermal insulation. Non-friable ACMs are much more durable as they are held together by a binder such as cement, vinyl or asphalt. Typical non-friable ACMs include floor tiles, fire blankets, roofing materials and cementitious products such as wallboards, pipes or siding.

It has been recognized that hazardous situations may exist in buildings where ACMs are found. This is especially true where asbestos fibres may become airborne due to material ageing, physical damage, water damage or air movement.

In contrast, there is little reason for concern if the asbestos is in good condition, has not been damaged and is not in a location where it is likely to be disturbed.

Asbestos Survey Methodology

The asbestos survey included identifying potential friable and non-friable asbestos-containing materials throughout the surveyed areas of the subject building.

The likelihood of ACMs being present in inaccessible areas, such as above gypsum wallboard ceilings and walls, was determined by assessing the presence of asbestos-containing materials in adjacent areas.

Fiberglass insulation was not submitted for analysis as it can be identified visually as non-asbestos material. Building materials suspected of containing asbestos were identified, and representative sampling and laboratory testing of these materials was conducted. The number of bulk material samples collected from a homogeneous area was under Table 1. O. Reg. 278/05 s. 3 (3) below. Building materials suspected of containing asbestos were collected using wetting techniques and hand-sampling tools.

Table 1 - O. Reg. 278/05 s. 3(3): Minimum Asbestos Bulk Material Sample Requirements

Item	Type of material	Size of the area of homogeneous material	Minimum number of bulk material samples to be collected
1.	Surfacing material, including, without limitation, material that is applied to surfaces by spraying, troweling or otherwise, such as acoustical plaster on ceilings and fireproofing materials on structural members	Less than 90 square metres	3
		90 or more square metres but less than 450 square metres	5
		450 or more square metres	7
2.	Thermal insulation, except as described in item 3	any size	3

3.	Thermal insulation patch	Less than 2 linear metres or 0.5 square metres	1
4.	<u>Other material</u>	<u>Any size</u>	3

Preliminary identification of the samples was made using polarized light microscopy (PLM), confirming the presence and type of asbestos caused by dispersion staining optical microscopy. This analytical procedure follows the U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials, June 1993.

EMSL Canada Inc. (EMSL), an independent laboratory, analyzed all bulk samples for asbestos content. EMSL is an independent laboratory accredited by the National Institute of Standards and Technology/National Voluntary Laboratory Accreditation (NIST/NVLAP) (Lab Code #200877-0).

Vinyl floor tiles were analyzed using the phase light microscopy (PLM) analysis method. However, given the composition of vinyl floor products, the PLM analysis method may be prone to yield false negative analytical results. Therefore, before removal or replacement, vinyl floor products previously identified as negative should undergo additional analysis by Transmission Electron Microscopy (TEM) to confirm asbestos content, if any.

Materials identified to contain asbestos were assessed on the relative possibility of fibre release into the air due to their condition and accessibility.

Evaluation of ACMs Based on Condition

In evaluating an ACM's condition, the following criteria were applied:

- **Good** – Material shows no signs of damage and/or is encapsulated. ACM could remain in place until eventual building demolition or major renovation.
- **Fair** – Material shows signs of minor damage (<5% damage) or near the end of useful life. This includes minor shrinking, cracking, delamination and/ or other damage. The material should be monitored closely and scheduled to be repaired, encapsulated or removed.
- **Poor** – Damage is greater than 5% to any ACM material and is highly recommended to be removed, repaired or encapsulated.

Note: The above evaluation criteria were also applied to other hazardous materials. Please refer to the Asbestos and Hazardous Materials Checklist in Appendix E & F for further details.

Lead

Background Information on Lead

Lead was a common additive in exterior and hard-wearing paint applications. Lead was used to prolong the paint's shelf life and increase its flexibility and durability to wear and weather. Acute exposure to lead by inhalation or ingestion may cause headaches, fatigue, nausea, abdominal cramps and joint pain. Chronic exposures can cause reduced hemoglobin production and reduced lifespan. It has also been known to impact

the body's central and peripheral nervous systems and brain function and has been linked to learning disabilities in children.

No regulatory limit in Ontario determines what lead concentration constitutes a "lead-containing material." On October 21, 2010, Health Canada, under the *Hazardous Products Act*, stated that the lead content in surface-coating materials, furniture, toys and other articles for children should not exceed 90 mg/kg (0.009%, 90 ppm). However, this is intended for importing or selling products within Canada. Therefore, this is not to be misconstrued as a limit established to define a lead-containing material or a limitation with respect to lead on construction projects.

The Environmental Abatement Council of Canada (EACC) has also developed the "*Lead Guideline for Construction, Renovation, Maintenance or Repair*" dated October 2014, which discusses the classification, handling, disturbance and removal of lead-containing materials. For this guideline, paints or surface coatings containing less than or equal to 0.1% lead by weight (1000 mg/kg or 1000 ppm) are considered low-level lead paints or surface coatings. If these materials (and their respective surfaces) are disturbed in a non-aggressive manner and performed using adequate dust control procedures, then worker protection from the inhalation of lead is not required.

Furthermore, paints or surface coatings containing greater than 0.1% lead by weight are considered lead-containing paints or surface coatings. If these materials (and their respective surfaces) are disturbed, appropriate lead abatement procedures must always be followed.

Exposure to lead-containing materials is regulated under Ontario Regulation 490/09, *Designated Substances* - made under the Occupational Health and Safety Act. Care must be taken to prevent lead-containing particles from becoming airborne during the disturbance of lead-containing surfaces (i.e., during renovation or demolition projects). All lead abatement work must follow procedures outlined in the Guideline Lead on Construction Projects, issued in September 2004 (amended in April 2011) by the Occupational Health and Safety branch of the Ministry of Labour (Type 1-3). Similarly, the lead abatement work procedures outlined in the EACC Lead Guideline for Construction, Renovation, Maintenance or Repair (October 2014) may also be implemented (Class 1-3).

Lead has been used in solder on copper plumbing fixtures, lead conduit pipes, lead-calcium battery plates, ammunition, and nuclear and X-ray shielding devices. However, these materials were not sampled during this investigation but were noted where applicable.

Representative bulk samples of paint and finishes suspected of containing lead were collected to verify lead content in paints. Bulk samples were scraped down to the building base structure, with all possible layers present, placed in sealed plastic bags and labelled, and then submitted to an independent laboratory for analysis. Samples were treated with a dilute nitric acid sample digestion prior to filtration. The analysis utilized for lead detection in filtered samples was inductively coupled plasma optical emission spectrometry (ICP-OES).

Mercury

Background Information on Mercury

Mercury is known to cause human poisoning through inhaling vapours, ingesting contaminated materials or skin absorption through direct contact with the liquid.

Precautions must be taken to prevent mercury vapours from becoming airborne during renovations or building demolition. Exposure to airborne mercury is regulated under the Revised O. Reg. 490/09 as amended – Regulation respecting Mercury – made under the Occupational Health and Safety Act; and under O. Reg. 558, which amended O. Reg. 347/90 (General - Waste Management), mercury is classified as a Schedule 2(b) Hazardous Waste Chemical. Its hazardous waste number is U151.

Mercury is found in thermostats, temperature and pressure gauges, fluorescent lamps and batteries. Mercury in products can be released to the environment through breakage or disposal at the end of a useful life. Improper disposal of these mercury products poses a health and environmental risk to everyone. In addition, the removal of mercury-containing products can create wastes that are often classified as hazardous. Wastes that leach mercury in concentrations exceeding Ontario Regulation 347/90 (General - Waste Management) limits are also considered hazardous.

The mercury in thermostats switch contains approximately 3-4 grams in a glass ampoule, typically attached to a metal coil. Mercury-containing switches have been used in thermostats for over 40 years.

Mercury is an essential component in fluorescent lamps and HID lamps. The mercury is in a vapour form, and the phosphor coating is on the lamp tube. Estimates of the mercury content contained in compact, 4-foot, and 8-foot lamps are 10 mg, 23 mg, and 46 mg, respectively.

Most fluorescent lamps qualify as hazardous waste when removed from service and are prohibited from disposal in the solid waste stream. Fluorescent lamps would be classified as 146T on your facility Generator Registration Report under O. Reg. 347/90 - General Waste Management, as amended by O. Reg. 558/00. Under this regulation, if the leachate results exceed 0.1 milligrams of mercury per litre for a given waste, the facility must treat the waste as hazardous. Most fluorescent and HID lamps will exceed the leachate toxicity limit; therefore, these wastes must be registered and treated as hazardous waste or sent for recycling.

Silica

Background Information on Silica



Silica is expected to be present in building materials such as concrete, brick, mortar and ceramic tiles throughout the structures. Free crystalline silica (α -Quartz) may be a component in ceiling tiles and gypsum boards. Silica (including free crystalline silica) may also be a component of concrete and brick surfaces noted in the building.

Exposure to airborne silica is regulated under Ontario Regulation 490/09, *Designated Substances* - made under the Occupational Health and Safety Act.

Polychlorinated Biphenyls (PCBs)

Background Information on PCBs

Polychlorinated Biphenyls (PCBs) were commonly used as a dielectric insulating fluid in electrical equipment such as transformers, capacitors, and fluorescent and HID lamp ballasts. The production of PCBs in North America started in 1929 and was banned at the beginning of 1979. After 1981, no manufacturers produced fluorescent and HID lamps with PCB-containing ballasts.

PCBs are not designated substances under the Occupational Health and Safety Act.

PCB Regulations (SOR/2008-273)

The *PCB Regulations* (the Regulations) set specific deadlines for ending the use of PCBs in concentrations at or above 50 mg/kg, eliminating all PCBs and equipment containing PCBs currently in storage and limiting the time PCBs can be stored before being destroyed. The Regulations also establish sound practices for the better management of the remaining PCBs in use (i.e. those with a content of less than 50 mg/kg) until their eventual elimination to prevent contamination of dielectric fluids and dispersion of PCBs in small quantities into other liquids.

Ozone Depleting-Substances (ODSs) and Other Halocarbons

Background Information on ODSs

Within Ontario, the general use of ozone-depleting substances (ODSs) and other halocarbons is controlled through Regulation 463/10 of the Environmental Protection Act. The production of ODSs in hydrochlorofluorocarbons (HCFCs) and chlorofluorocarbons (CFCs) ceased in Canada in 1993 due to their ozone-depleting characteristics. The importation of CFCs into Canada ceased in 1997, and a total ban was placed on their use in 2010. The use of these materials is still permitted in existing equipment, but equipment must be serviced by a licensed contractor such that CFCs are contained and not released to the environment during servicing or operation.

Radioactive Materials

Two types of smoke detectors are common in buildings (residential, institutional, commercial, industrial, etc). Photoelectric-type smoke detectors detect smoke using an optical sensor, whereas ionization-type smoke detectors use an ionization chamber containing radioactive material. The ionization type is cheaper and is particularly common in older buildings. A typical modern detector contains about 1.0 microcurie of the radioactive element americium, a decrease from 3 microcurie in 1978. Sealed radioactive material sources in fire detection systems are still permitted and regulated by the Canadian Nuclear Safety Commission and the Canadian Nuclear Safety Act. The radioactive sources in smoke alarms are sealed and contained within a metal case inside the smoke detector and must not be damaged or tampered with.

Mould & Water Damage

Mould growth inside buildings is due to excess moisture caused by leakages, condensation or capillary movement of water into the building. Toxic moulds such as *Stachybotrys chartarum* and some species of *Aspergillus* spp. are greenish-black, wet and slimy moulds that grow on soaking, wet cellulose-based materials. They are often found near water leaks or where drying is very slow and can form after flooding if insufficient cleanup and drying occur. They will generally not occur if materials are kept dry.

MPL conducted a general visual assessment for any apparent signs of visible mould and/or water damage. Based on our visual observations, the following guidelines were used in providing our recommendations for remedial action where required:

- Institute of Inspection Cleaning and Restoration Certification (IICRC) S520 Standard and Reference for Professional Mould Remediation,
- The Canadian Construction Association (CCA) Mould Guidelines for the Canadian construction industry (CCA document 82-2004)
- Environmental Abatement Council of Canada (EACC) Mould Abatement Guidelines.

Other Designated Substances

Select Designated Substances (acrylonitrile, arsenic, coke oven emissions, ethylene oxide, isocyanates, benzene, or vinyl chloride) are not expected to be present in the building in the matrix or sufficient quantities to cause an exceedance of Ministry of Labour exposure guidelines. As such, no sampling was conducted for these materials.

Vinyl Chloride

Vinyl chloride (monomer) is likely to be stable within poly vinyl-chloride (PVC) piping and conduits and as a component of interior finishes. Such building materials are not considered hazardous in their current matrix/composition.

Acrylonitrile

Acrylonitrile or ACN (vinyl cyanide) is an explosive, flammable liquid used to manufacture acrylic fibres, rubber-like materials and pesticide fumigants. Acrylonitrile was not noted and would not be expected to be present in the project-specific area/surveyed area/subject building.

Arsenic

Arsenic is used in metallurgy for hardening copper, lead and alloys, in pigment production, in the manufacture of certain types of glass, in insecticides, fungicides and rodenticides, as a by-product in the smelting of copper ores, and as a dopant material in semiconductor manufacturing. Arsenic or arsenic compounds were not noted nor expected to be present in the project-specific area/surveyed area/subject building.

Benzene

Benzene or benzol is a colourless liquid. It is used as an intermediate in producing styrene, phenol, cyclohexane, and other organic chemicals and in manufacturing detergents, pesticides, solvents, and paint removers. It is also found in gasoline. Benzene may be stable in roofing materials, paints and adhesives throughout the subject building. Such building materials are not considered hazardous in their current matrix/composition.

Coke Oven Emissions

Coke oven emission is a benzene-soluble fraction of the total particulate matter of the substances emitted into the atmosphere from metallurgical coke ovens.

Ethylene Oxides

Ethylene oxide is a colourless gas liquefying below 12°C. It is generally used as a fumigant and sterilizing agent for medical equipment. It is generally used as a fumigant and sterilizing agent for medical equipment.

Isocyanates

Isocyanate compounds may be present to stabilize paint finishes, varnishes, polyurethane plastics, synthetic rubbers, foams and adhesives. Such building materials are not considered hazardous in their current matrix/composition.

To reduce the potential for exposure to workers or occupants, any suspect hazardous building material(s) not detailed within this survey due to inaccessibility and/or discovered during renovation/demolition activities must be appropriately assessed and/or tested prior to their disturbance.

APPENDIX C

Laboratory Analytical Reports

Certificate of Analysis

McIntosh Perry Limited (Concord)

6240 Hwy 7, Suite 200
Woodbridge, ON L4H 0R2
Attn: Atif Mohamed

Client PO:
Project: Z1920014HZ-200 LEES
Custody:

Report Date: 26-Nov-2019
Order Date: 4-Nov-2019

Revised Report

Order #: 1945297

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

Paracel ID	Client ID
1945297-01	BS 1.1 - A02 - Mech. Rm - Unilux Machine Gasket
1945297-02	BS 1.2 - A02 - Mech. Rm - Unilux Machine Gasket
1945297-03	BS 1.3 - A02 - Mech. Rm - Unilux Machine Gasket
1945297-04	BS 2.1 - 104C - Parging Cement
1945297-05	BS 2.2 - 104C - Parging Cement
1945297-06	BS 2.3 - 104C - Parging Cement
1945297-07	BS 3.1 - A105 - Work Bench #2 - Mech. Pipe Insulation
1945297-08	BS 3.2 - A105 - Work Bench #2 - Mech. Pipe Insulation
1945297-09	BS 3.3 - A105 - Work Bench #2 - Mech. Pipe Insulation
1945297-10	BS 4.1 - A140 - Floor Levelling Compound
1945297-11	BS 4.2 - A140 - Floor Levelling Compound
1945297-12	BS 4.3 - A140 - Floor Levelling Compound
1945297-13	BS 5.1 - A139 - Plaster on Columns
1945297-14	BS 5.2 - A139 - Plaster on Columns
1945297-15	BS 5.3 - A139 - Plaster on Columns
1945297-16	BS 6.1 - A144 - High Traffic Coating
1945297-17	BS 6.2 - A144 - High Traffic Coating
1945297-18	BS 6.3 - A144 - High Traffic Coating
1945297-19	BS 7.1 - A139 - Int. Window Caulking
1945297-20	BS 7.2 - A139 - Int. Window Caulking
1945297-21	BS 7.3 - A139 - Int. Window Caulking
1945297-22	BS 8.1 - A136 - VFT (12x12) - Off White w/Gray & Black Streaks
1945297-23.1	BS 8.2 - A136 - VFT (12x12) - Off White w/Gray & Black Streaks
1945297-23.2	BS 8.2 - A136 - VFT (12x12) - Off White w/Gray & Black Streaks
1945297-24.1	BS 8.3 - A136 - VFT (12x12) - Off White w/Gray & Black Streaks
1945297-24.2	BS 8.3 - A136 - VFT (12x12) - Off White w/Gray & Black Streaks

Approved By:



Emma Diaz
Senior Analyst

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

Certificate of Analysis

Report Date: 26-Nov-2019

 Client: **McIntosh Perry Limited (Concord)**

Order Date: 4-Nov-2019

Client PO:

 Project Description: **Z1920014HZ-200 LEES**

1945297-25	BS 9.1 - A138E - VFT (12x12) - Beige w/Brown & Grey Flakes
1945297-26	BS 9.2 - A138E - VFT (12x12) - Beige w/Brown & Grey Flakes
1945297-27.1	BS 9.3 - A138E - VFT (12x12) - Beige w/Brown & Grey Flakes
1945297-27.2	BS 9.3 - A138E - VFT (12x12) - Beige w/Brown & Grey Flakes
1945297-28	BS 10.1 - A122B - VFT (12x12) - Olive Green w/Grey Flakes
1945297-29	BS 10.2 - A122B - VFT (12x12) - Olive Green w/Grey Flakes
1945297-30	BS 10.3 - A122B - VFT (12x12) - Olive Green w/Grey Flakes
1945297-31.1	BS 11.1 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks
1945297-31.2	BS 11.1 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks
1945297-32.1	BS 11.2 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks
1945297-32.2	BS 11.2 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks
1945297-33.1	BS 11.3 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks
1945297-33.2	BS 11.3 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks
1945297-34.1	BS 12.1 - A122B - VFT (12x12) - Off White w/Brown Flakes
1945297-34.2	BS 12.1 - A122B - VFT (12x12) - Off White w/Brown Flakes
1945297-35.1	BS 12.2 - A122B - VFT (12x12) - Off White w/Brown Flakes
1945297-35.2	BS 12.2 - A122B - VFT (12x12) - Off White w/Brown Flakes
1945297-36.1	BS 12.3 - A122B - VFT (12x12) - Off White w/Brown Flakes
1945297-36.2	BS 12.3 - A122B - VFT (12x12) - Off White w/Brown Flakes
1945297-37	BS 13.1 - A142 - Concrete Block Mortar
1945297-38	BS 13.2 - A142 - Concrete Block Mortar
1945297-39	BS 13.3 - A142 - Concrete Block Mortar
1945297-40	BS 14.1 - A106C - Wall Tile Grout
1945297-41	BS 14.2 - A106C - Wall Tile Grout
1945297-42	BS 14.3 - A106C - Wall Tile Grout
1945297-43	BS 15.1 - A139 - Wall Texture Coating
1945297-44	BS 15.2 - A139 - Wall Texture Coating
1945297-45	BS 15.3 - A139 - Wall Texture Coating
1945297-46	BS 15.4 - A139 - Wall Texture Coating
1945297-47	BS 15.5 - A140 - Wall Texture Coating
1945297-48	BS 15.6 - A140 - Wall Texture Coating
1945297-49	BS 15.7 - A140 - Wall Texture Coating
1945297-50	BS 16.1 - A136-2x4-SCT-Fissures
1945297-51	BS 16.2 - A136-2x4-SCT-Fissures
1945297-52	BS 16.3 - A136-2x4-SCT-Fissures
1945297-53	BS 17.1 - A106 - 2x4 - SCT - Pinholes with Large Fissures
1945297-54	BS 17.2 - A100B - 2x4 - SCT - Pinholes with Large Fissures
1945297-55	BS 17.3 - A127C - 2x4 - SCT - Pinholes with Large Fissures
1945297-56	BS 18.1 - A106C - 12x12 - Red w/Flakes
1945297-57.1	BS 18.2 - A106C - 12x12 - Red w/Flakes
1945297-57.2	BS 18.2 - A106C - 12x12 - Red w/Flakes
1945297-58.1	BS 18.3 - A106C - 12x12 - Red w/Flakes
1945297-58.2	BS 18.3 - A106C - 12x12 - Red w/Flakes
1945297-59	BS 19.1 - D202B-Carpet Mastic

Certificate of Analysis

Report Date: 26-Nov-2019

Client: **McIntosh Perry Limited (Concord)**

Order Date: 4-Nov-2019

Client PO:

Project Description: Z1920014HZ-200 LEES

1945297-60	BS 19.2 - D202B-Carpet Mastic
1945297-61	BS 19.3 - D202B-Carpet Mastic
1945297-62	BS 20.1 - BS215E - VFT 2x2 - Off White w/Blue Streaks
1945297-63	BS 20.2 - BS215E - VFT 2x2 - Off White w/Blue Streaks
1945297-64	BS 20.3 - BS215E - VFT 2x2 - Off White w/Blue Streaks
1945297-65	BS 21.1- B215N - Plaster on Beam
1945297-66	BS 21.2- B215N - Plaster on Beam
1945297-67	BS 21.3- B215N - Plaster on Beam
1945297-68.1	BS 22.1 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes
1945297-68.2	BS 22.1 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes
1945297-69.1	BS 22.2 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes
1945297-69.2	BS 22.2 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes
1945297-70.1	BS 22.3 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes
1945297-70.2	BS 22.3 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes
1945297-71.1	BS 23.1 - C209 - VFT 12x12 - Beige w/Multicolor Flakes
1945297-71.2	BS 23.1 - C209 - VFT 12x12 - Beige w/Multicolor Flakes
1945297-72.1	BS 23.2 - C209 - VFT 12x12 - Beige w/Multicolor Flakes
1945297-72.2	BS 23.2 - C209 - VFT 12x12 - Beige w/Multicolor Flakes
1945297-73.1	BS 23.3 - C209 - VFT 12x12 - Beige w/Multicolor Flakes
1945297-73.2	BS 23.3 - C209 - VFT 12x12 - Beige w/Multicolor Flakes
1945297-74.1	BS 24.1 - C200 Hallway - VFT 12x12 - Off White w/Grey Flakes
1945297-74.2	BS 24.1 - C200 Hallway - VFT 12x12 - Off White w/Grey Flakes
1945297-75.1	BS 24.2 - C200 Hallway - VFT 12x12 - Off White w/Grey Flakes
1945297-75.2	BS 24.2 - C200 Hallway - VFT 12x12 - Off White w/Grey Flakes
1945297-76.1	BS 24.3 - C144 Hallway - VFT 12x12 - Off White w/Grey Flakes
1945297-76.2	BS 24.3 - C144 Hallway - VFT 12x12 - Off White w/Grey Flakes
1945297-77.1	BS 25.1 - C115 - VFT 12x12 - Pink w/Dots
1945297-77.2	BS 25.1 - C115 - VFT 12x12 - Pink w/Dots
1945297-78.1	BS 25.2 - C115 - VFT 12x12 - Pink w/Dots
1945297-78.2	BS 25.2 - C115 - VFT 12x12 - Pink w/Dots
1945297-79.1	BS 25.3 - C115 - VFT 12x12 - Pink w/Dots
1945297-79.2	BS 25.3 - C115 - VFT 12x12 - Pink w/Dots
1945297-80.1	BS 26.1 - E041 - VFT 12x12 - Off White w/Blue Streaks
1945297-80.2	BS 26.1 - E041 - VFT 12x12 - Off White w/Blue Streaks
1945297-81.1	BS 26.2 - E041 - VFT 12x12 - Off White w/Blue Streaks
1945297-81.2	BS 26.2 - E041 - VFT 12x12 - Off White w/Blue Streaks
1945297-82.1	BS 26.3 - E041 - VFT 12x12 - Off White w/Blue Streaks
1945297-82.2	BS 26.3 - E041 - VFT 12x12 - Off White w/Blue Streaks
1945297-83.1	BS 27.1 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks
1945297-83.2	BS 27.1 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks
1945297-84.1	BS 27.2 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks
1945297-84.2	BS 27.2 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks
1945297-85.1	BS 27.3 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks
1945297-85.2	BS 27.3 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks

Certificate of Analysis

Report Date: 26-Nov-2019

 Client: **McIntosh Perry Limited (Concord)**

Order Date: 4-Nov-2019

Client PO:

 Project Description: **Z1920014HZ-200 LEES**

1945297-86.1	BS 28.1 - E244 - VFT 12x12 - Off White w/ Grey Streaks
1945297-86.2	BS 28.1 - E244 - VFT 12x12 - Off White w/ Grey Streaks
1945297-87.1	BS 28.2 - E244 - VFT 12x12 - Off White w/ Grey Streaks
1945297-87.2	BS 28.2 - E244 - VFT 12x12 - Off White w/ Grey Streaks
1945297-88.1	BS 28.3 - E244 - VFT 12x12 - Off White w/ Grey Streaks
1945297-88.2	BS 28.3 - E244 - VFT 12x12 - Off White w/ Grey Streaks
1945297-89	BS 29.1 - D108 - Men's Change Rm - 12x12 - ACT
1945297-90	BS 29.2 - D108 - Men's Change Rm - 12x12 - ACT
1945297-91	BS 29.3 - D108 - Men's Change Rm - 12x12 - ACT
1945297-92.1	BS 30.1 - D108 - Ceiling Mastic (Pucks)
1945297-92.2	BS 30.1 - D108 - Ceiling Mastic (Pucks)
1945297-93.1	BS 30.2 - D108 - Ceiling Mastic (Pucks)
1945297-93.2	BS 30.2 - D108 - Ceiling Mastic (Pucks)
1945297-94.1	BS 30.3 - D108 - Ceiling Mastic (Pucks)
1945297-94.2	BS 30.3 - D108 - Ceiling Mastic (Pucks)
1945297-95	BS 31.1 - D108 - Ceiling Plaster
1945297-96	BS 31.2 - D108 - Ceiling Plaster
1945297-97	BS 31.3 - D108 - Ceiling Plaster
1945297-98	BS 32.1 - B100 Hallway - Sprayed Insulation
1945297-99	BS 32.2 - C141C - Tele Rm - Sprayed Insulation
1945297-AA	BS 32.3 - C141C - Tele Rm - Sprayed Insulation
1945297-AB	BS 32.4 - C201 - Sprayed Insulation
1945297-AC	BS 32.5 - C204 - Sprayed Insulation
1945297-AD	BS 33.1 - A136 - Drywall Joint Compound DJC
1945297-AE	BS 33.2 - A139A - Drywall Joint Compound DJC
1945297-AF	BS 33.3 - C115 - Drywall Joint Compound DJC
1945297-AG	BS 33.4 - B215 - Drywall Joint Compound DJC
1945297-AH	BS 33.5 - C200 Hallway - Drywall Joint Compound DJC
1945297-AI	BS 33.6 - E126 - Drywall Joint Compound DJC
1945297-AJ	BS 33.7 - E053 - Drywall Joint Compound DJC
1945297-AK	BS 34.1 - E038 - Mech. Rm - DJC
1945297-AL	BS 34.2 - E038 - Mech. Rm - DJC
1945297-AM	BS 34.3 - E038 - Mech. Rm - DJC
1945297-AN.1	BS 35.1- C115 - VFT 12x12 - Off White w/Dots
1945297-AN.2	BS 35.1- C115 - VFT 12x12 - Off White w/Dots
1945297-AO.1	BS 35.2- C115 - VFT 12x12 - Off White w/Dots
1945297-AO.2	BS 35.2- C115 - VFT 12x12 - Off White w/Dots
1945297-AP.1	BS 35.3- C115 - VFT 12x12 - Off White w/Dots
1945297-AP.2	BS 35.3- C115 - VFT 12x12 - Off White w/Dots

Certificate of Analysis

Report Date: 26-Nov-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Nov-2019

Client PO:

Project Description: Z1920014HZ-200 LEES

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-01	30-Sep-19	Beige	Gasket	Yes	Client ID: BS 1.1 - A02 - Mech. Rm - Unilux Machine Gasket	
					Chrysotile	65
					Non-Fibers	35
1945297-02	30-Sep-19				Client ID: BS 1.2 - A02 - Mech. Rm - Unilux Machine Gasket	
					not analyzed	
1945297-03	30-Sep-19				Client ID: BS 1.3 - A02 - Mech. Rm - Unilux Machine Gasket	
					not analyzed	
1945297-04	30-Sep-19	Grey	Parging	Yes	Client ID: BS 2.1 - 104C - Parging Cement	
					Chrysotile	60
					Non-Fibers	40
1945297-05	30-Sep-19				Client ID: BS 2.2 - 104C - Parging Cement	
					not analyzed	
1945297-06	30-Sep-19				Client ID: BS 2.3 - 104C - Parging Cement	
					not analyzed	
1945297-07	30-Sep-19	Brown	Pipe Insulation	Yes	Client ID: BS 3.1 - A105 - Work Bench #2 - Mech. Pipe Insulation	
					Chrysotile	10
					Non-Fibers	90
1945297-08	30-Sep-19				Client ID: BS 3.2 - A105 - Work Bench #2 - Mech. Pipe Insulation	
					not analyzed	
1945297-09	30-Sep-19				Client ID: BS 3.3 - A105 - Work Bench #2 - Mech. Pipe Insulation	
					not analyzed	
1945297-10	30-Sep-19	Brown/Black	Leveling Compound/Mastic	No	Client ID: BS 4.1 - A140 - Floor Levelling Compound	[Z-01]
					Non-Fibers	97
					Other fibers	3

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-11	30-Sep-19	Brown/Black	Leveling Compound/Mastic	No	Client ID: BS 4.2 - A140 - Floor Levelling Compound	[Z-01]
					Non-Fibers	97
					Other fibers	3
1945297-12	30-Sep-19	Brown/Black	Leveling Compound/Mastic	No	Client ID: BS 4.3 - A140 - Floor Levelling Compound	[Z-01]
					Non-Fibers	97
					Other fibers	3
1945297-13	30-Sep-19	Grey	Plaster	No	Client ID: BS 5.1 - A139 - Plaster on Columns	
					Non-Fibers	100
1945297-14	30-Sep-19	Grey	Plaster	No	Client ID: BS 5.2 - A139 - Plaster on Columns	
					Non-Fibers	100
1945297-15	30-Sep-19	Grey	Plaster	No	Client ID: BS 5.3 - A139 - Plaster on Columns	
					Non-Fibers	100
1945297-16	30-Sep-19	Beige	Coating	No	Client ID: BS 6.1 - A144 - High Traffic Coating	
					Non-Fibers	100
1945297-17	30-Sep-19	Beige	Coating	No	Client ID: BS 6.2 - A144 - High Traffic Coating	
					Non-Fibers	100
1945297-18	30-Sep-19	Beige	Coating	No	Client ID: BS 6.3 - A144 - High Traffic Coating	
					Non-Fibers	100
1945297-19	30-Sep-19	Black	Caulking	Yes	Client ID: BS 7.1 - A139 - Int. Window Caulking	
					Chrysotile	2
					Non-Fibers	93
					Other fibers	5
1945297-20	30-Sep-19				Client ID: BS 7.2 - A139 - Int. Window Caulking	
						not analyzed

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-21	30-Sep-19				Client ID: BS 7.3 - A139 - Int. Window Caulking not analyzed	
1945297-22	30-Sep-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 8.1 - A136 - VFT (12x12) - Off White w/Gray & Black Streaks Non-Fibers	[Z-01c] 100
1945297-23.1	30-Sep-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 8.2 - A136 - VFT (12x12) - Off White w/Gray & Black Streaks Non-Fibers	[Z-01a] 100
1945297-23.2	30-Sep-19				Client ID: BS 8.2 - A136 - VFT (12x12) - Off White w/Gray & Black Streaks not analyzed	[Z-01a]
1945297-24.1	30-Sep-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 8.3 - A136 - VFT (12x12) - Off White w/Gray & Black Streaks Non-Fibers	[Z-01a] 100
1945297-24.2	30-Sep-19				Client ID: BS 8.3 - A136 - VFT (12x12) - Off White w/Gray & Black Streaks not analyzed	[Z-01a]
1945297-25	01-Oct-19	Beige	Vinyl Floor Tile	No	Client ID: BS 9.1 - A138E - VFT (12x12) - Beige w/Brown & Grey Flakes Non-Fibers	[Z-01b] 100
1945297-26	01-Oct-19	Beige	Vinyl Floor Tile	No	Client ID: BS 9.2 - A138E - VFT (12x12) - Beige w/Brown & Grey Flakes Non-Fibers	[Z-01b] 100
1945297-27.1	01-Oct-19	Beige	Vinyl Floor Tile	No	Client ID: BS 9.3 - A138E - VFT (12x12) - Beige w/Brown & Grey Flakes Non-Fibers	[Z-01b] 100
1945297-27.2	01-Oct-19	Black	Mastic	No	Client ID: BS 9.3 - A138E - VFT (12x12) - Beige w/Brown & Grey Flakes Cellulose Non-Fibers	[Z-01b] 3 97
1945297-28	01-Oct-19	Olive green	Vinyl Floor Tile	No	Client ID: BS 10.1 - A122B - VFT (12x12) - Olive Green w/Grey Flakes Non-Fibers	[Z-01c] 100
1945297-29	01-Oct-19	Olive green	Vinyl Floor Tile	No	Client ID: BS 10.2 - A122B - VFT (12x12) - Olive Green w/Grey Flakes Non-Fibers	[Z-01c] 100

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019

Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-30	01-Oct-19	Olive green	Vinyl Floor Tile	No	Client ID: BS 10.3 - A122B - VFT (12x12) - Olive Green w/Grey Flakes Non-Fibers	100
1945297-31.1	01-Oct-19	Grey	Vinyl Floor Tile	No	Client ID: BS 11.1 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks Non-Fibers	100
1945297-31.2	01-Oct-19				Client ID: BS 11.1 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks not analyzed	[Z-01a]
1945297-32.1	01-Oct-19	Grey	Vinyl Floor Tile	No	Client ID: BS 11.2 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks Non-Fibers	100
1945297-32.2	01-Oct-19	Black	Mastic	No	Client ID: BS 11.2 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks Non-Fibers	100
1945297-33.1	01-Oct-19	Grey	Vinyl Floor Tile	No	Client ID: BS 11.3 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks Non-Fibers	100
1945297-33.2	01-Oct-19				Client ID: BS 11.3 - A127-Archives RM-VFT(12x12)-Grey w/Blue Streaks not analyzed	[Z-01a]
1945297-34.1	01-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 12.1 - A122B - VFT (12x12) - Off White w/Brown Flakes Non-Fibers	100
1945297-34.2	01-Oct-19				Client ID: BS 12.1 - A122B - VFT (12x12) - Off White w/Brown Flakes not analyzed	[Z-01a]
1945297-35.1	01-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 12.2 - A122B - VFT (12x12) - Off White w/Brown Flakes Non-Fibers	100
1945297-35.2	01-Oct-19				Client ID: BS 12.2 - A122B - VFT (12x12) - Off White w/Brown Flakes not analyzed	[Z-01a]
1945297-36.1	01-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 12.3 - A122B - VFT (12x12) - Off White w/Brown Flakes Non-Fibers	100

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-36.2	01-Oct-19				Client ID: BS 12.3 - A122B - VFT (12x12) - Off White w/Brown Flakes not analyzed	[Z-01a]
1945297-37	01-Oct-19	Grey	Mortar	No	Client ID: BS 13.1 - A142 - Concrete Block Mortar	Non-Fibers 100
1945297-38	01-Oct-19	Grey	Mortar	No	Client ID: BS 13.2 - A142 - Concrete Block Mortar	Non-Fibers 100
1945297-39	01-Oct-19	Grey	Mortar	No	Client ID: BS 13.3 - A142 - Concrete Block Mortar	Non-Fibers 100
1945297-40	01-Oct-19	Grey	Grout	No	Client ID: BS 14.1 - A106C - Wall Tile Grout	Non-Fibers 100
1945297-41	01-Oct-19	White	Grout	No	Client ID: BS 14.2 - A106C - Wall Tile Grout	Non-Fibers 100
1945297-42	01-Oct-19	White	Grout	No	Client ID: BS 14.3 - A106C - Wall Tile Grout	Non-Fibers 100
1945297-43	01-Oct-19	Grey	Texture Coat	No	Client ID: BS 15.1 - A139 - Wall Texture Coating	Non-Fibers 100
1945297-44	01-Oct-19	Grey	Texture Coat	No	Client ID: BS 15.2 - A139 - Wall Texture Coating	Non-Fibers 100
1945297-45	01-Oct-19	Grey	Texture Coat	No	Client ID: BS 15.3 - A139 - Wall Texture Coating	Non-Fibers 100
1945297-46	01-Oct-19	Grey	Texture Coat	No	Client ID: BS 15.4 - A139 - Wall Texture Coating	Non-Fibers 100
1945297-47	01-Oct-19	White	Texture Coat	No	Client ID: BS 15.5 - A140 - Wall Texture Coating	Non-Fibers 100

Certificate of Analysis
 Client: McIntosh Perry Limited (Concord)
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: Z1920014HZ-200 LEES

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-48	01-Oct-19	White	Texture Coat	No	Client ID: BS 15.6 - A140 - Wall Texture Coating	
					Non-Fibers	100
1945297-49	01-Oct-19	White	Texture Coat	No	Client ID: BS 15.7 - A140 - Wall Texture Coating	
					Non-Fibers	100
1945297-50	01-Oct-19	Brown	Ceiling Tile	No	Client ID: BS 16.1 - A136-2x4-SCT-Fissures	
					Cellulose	95
					Non-Fibers	5
1945297-51	01-Oct-19	Brown	Ceiling Tile	No	Client ID: BS 16.2 - A136-2x4-SCT-Fissures	
					Cellulose	95
					Non-Fibers	5
1945297-52	01-Oct-19	Brown	Ceiling Tile	No	Client ID: BS 16.3 - A136-2x4-SCT-Fissures	
					Cellulose	95
					Non-Fibers	5
1945297-53	01-Oct-19	Grey	Ceiling Tile	No	Client ID: BS 17.1 - A106 - 2x4 - SCT - Pinholes with Large Fissures	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
1945297-54	01-Oct-19	Grey	Ceiling Tile	No	Client ID: BS 17.2 - A100B - 2x4 - SCT - Pinholes with Large Fissures	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
1945297-55	01-Oct-19	Grey	Ceiling Tile	No	Client ID: BS 17.3 - A127C - 2x4 - SCT - Pinholes with Large Fissures	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
1945297-56	01-Oct-19	Red	Vinyl Floor Tile	No	Client ID: BS 18.1 - A106C - 12x12 - Red w/Flakes	
					Non-Fibers	100

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-57.1	01-Oct-19	Red	Vinyl Floor Tile	No	Client ID: BS 18.2 - A106C - 12x12 - Red w/Flakes	
					Non-Fibers	100
1945297-57.2	01-Oct-19	Black	Mastic	No	Client ID: BS 18.2 - A106C - 12x12 - Red w/Flakes	[Z-01a]
					Non-Fibers	100
1945297-58.1	01-Oct-19	Red	Vinyl Floor Tile	No	Client ID: BS 18.3 - A106C - 12x12 - Red w/Flakes	
					Non-Fibers	100
1945297-58.2	01-Oct-19				Client ID: BS 18.3 - A106C - 12x12 - Red w/Flakes	[Z-01a]
					not analyzed	
1945297-59	01-Oct-19	Brown	Mastic	No	Client ID: BS 19.1 - D202B-Carpet Mastic	
					Non-Fibers	100
1945297-60	01-Oct-19	Brown	Mastic	No	Client ID: BS 19.2 - D202B-Carpet Mastic	
					Non-Fibers	100
1945297-61	01-Oct-19	Brown	Mastic	No	Client ID: BS 19.3 - D202B-Carpet Mastic	
					Non-Fibers	100
1945297-62	01-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 20.1 - BS215E - VFT 2x2 - Off White w/Blue Streaks	[Z-01c]
					Non-Fibers	100
1945297-63	01-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 20.2 - BS215E - VFT 2x2 - Off White w/Blue Streaks	[Z-01c]
					Non-Fibers	100
1945297-64	01-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 20.3 - BS215E - VFT 2x2 - Off White w/Blue Streaks	[Z-01c]
					Non-Fibers	100
1945297-65	01-Oct-19	Grey	Plaster	No	Client ID: BS 21.1- B215N - Plaster on Beam	[Z-01f]
					Non-Fibers	100
1945297-66	01-Oct-19	Grey	Plaster	Yes	Client ID: BS 21.2- B215N - Plaster on Beam	[Z-01f]
					Tremolite	1
					Non-Fibers	99

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-67	01-Oct-19	Grey	Plaster	No	Client ID: BS 21.3- B215N - Plaster on Beam Non-Fibers	[Z-01f] 100
1945297-68.1	01-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 22.1 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes Non-Fibers	100
1945297-68.2	01-Oct-19	Black	Mastic	No	Client ID: BS 22.1 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes Non-Fibers	100
1945297-69.1	01-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 22.2 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes Non-Fibers	100
1945297-69.2	01-Oct-19	Black	Mastic	No	Client ID: BS 22.2 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes Non-Fibers	100
1945297-70.1	01-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 22.3 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes Non-Fibers	100
1945297-70.2	01-Oct-19	Black	Mastic	No	Client ID: BS 22.3 - C209 - VFT 12x12 - Off White w/Grey & Black Flakes Non-Fibers	100
1945297-71.1	01-Oct-19	Beige	Vinyl Floor Tile	No	Client ID: BS 23.1 - C209 - VFT 12x12 - Beige w/Multicolor Flakes Non-Fibers	100
1945297-71.2	01-Oct-19	Black	Mastic	No	Client ID: BS 23.1 - C209 - VFT 12x12 - Beige w/Multicolor Flakes Non-Fibers	100
1945297-72.1	01-Oct-19	Beige	Vinyl Floor Tile	No	Client ID: BS 23.2 - C209 - VFT 12x12 - Beige w/Multicolor Flakes Non-Fibers	100
1945297-72.2	01-Oct-19	Black	Mastic	No	Client ID: BS 23.2 - C209 - VFT 12x12 - Beige w/Multicolor Flakes Non-Fibers	100
1945297-73.1	01-Oct-19	Beige	Vinyl Floor Tile	No	Client ID: BS 23.3 - C209 - VFT 12x12 - Beige w/Multicolor Flakes Non-Fibers	100

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-73.2	01-Oct-19	Black	Mastic	No	Client ID: BS 23.3 - C209 - VFT 12x12 - Beige w/Multicolor Flakes	Non-Fibers 100
1945297-74.1	02-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 24.1 - C200 Hallway - VFT 12x12 - Off White w/Grey Flakes	Non-Fibers 100
1945297-74.2	02-Oct-19	Black	Mastic	No	Client ID: BS 24.1 - C200 Hallway - VFT 12x12 - Off White w/Grey Flakes	Non-Fibers 100
1945297-75.1	02-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 24.2 - C200 Hallway - VFT 12x12 - Off White w/Grey Flakes	Non-Fibers 100
1945297-75.2	02-Oct-19	Black	Mastic	No	Client ID: BS 24.2 - C200 Hallway - VFT 12x12 - Off White w/Grey Flakes	Non-Fibers 100
1945297-76.1	02-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 24.3 - C144 Hallway - VFT 12x12 - Off White w/Grey Flakes	Non-Fibers 100
1945297-76.2	02-Oct-19	Black	Mastic	No	Client ID: BS 24.3 - C144 Hallway - VFT 12x12 - Off White w/Grey Flakes	Non-Fibers 100
1945297-77.1	02-Oct-19	Pink	Vinyl Floor Tile	No	Client ID: BS 25.1 - C115 - VFT 12x12 - Pink w/Dots	Non-Fibers 100
1945297-77.2	02-Oct-19				Client ID: BS 25.1 - C115 - VFT 12x12 - Pink w/Dots [Z-01a] not analyzed	
1945297-78.1	02-Oct-19	Pink	Vinyl Floor Tile	No	Client ID: BS 25.2 - C115 - VFT 12x12 - Pink w/Dots	Non-Fibers 100
1945297-78.2	02-Oct-19	Black	Mastic	No	Client ID: BS 25.2 - C115 - VFT 12x12 - Pink w/Dots	Non-Fibers 100
1945297-79.1	02-Oct-19	Pink	Vinyl Floor Tile	No	Client ID: BS 25.3 - C115 - VFT 12x12 - Pink w/Dots	Non-Fibers 100

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-79.2	02-Oct-19	Black	Mastic	No	Client ID: BS 25.3 - C115 - VFT 12x12 - Pink w/Dots	
					Non-Fibers	100
1945297-80.1	02-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 26.1 - E041 - VFT 12x12 - Off White w/Blue Streaks	
					Non-Fibers	100
1945297-80.2	02-Oct-19	Yellow	Mastic	No	Client ID: BS 26.1 - E041 - VFT 12x12 - Off White w/Blue Streaks	
					Non-Fibers	100
1945297-81.1	02-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 26.2 - E041 - VFT 12x12 - Off White w/Blue Streaks	
					Non-Fibers	100
1945297-81.2	02-Oct-19				Client ID: BS 26.2 - E041 - VFT 12x12 - Off White w/Blue Streaks	[Z-01a]
					not analyzed	
1945297-82.1	02-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 26.3 - E041 - VFT 12x12 - Off White w/Blue Streaks	
					Non-Fibers	100
1945297-82.2	02-Oct-19	Yellow	Mastic	No	Client ID: BS 26.3 - E041 - VFT 12x12 - Off White w/Blue Streaks	
					Non-Fibers	100
1945297-83.1	02-Oct-19	Grey	Vinyl Floor Tile	No	Client ID: BS 27.1 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks	
					Non-Fibers	100
1945297-83.2	02-Oct-19	Yellow	Mastic	No	Client ID: BS 27.1 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks	
					Non-Fibers	100
1945297-84.1	02-Oct-19	Grey	Vinyl Floor Tile	No	Client ID: BS 27.2 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks	
					Non-Fibers	100
1945297-84.2	02-Oct-19	Yellow	Mastic	No	Client ID: BS 27.2 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks	
					Non-Fibers	100
1945297-85.1	02-Oct-19	Grey	Vinyl Floor Tile	No	Client ID: BS 27.3 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks	
					Non-Fibers	100

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-85.2	02-Oct-19	Yellow	Mastic	No	Client ID: BS 27.3 - E053 - VFT 12x12 - Grey w/White & Light Grey Streaks	
					Non-Fibers	100
1945297-86.1	02-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 28.1 - E244 - VFT 12x12 - Off White w/ Grey Streaks	
					Non-Fibers	100
1945297-86.2	02-Oct-19				Client ID: BS 28.1 - E244 - VFT 12x12 - Off White w/ Grey Streaks	[Z-01a]
					not analyzed	
1945297-87.1	02-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 28.2 - E244 - VFT 12x12 - Off White w/ Grey Streaks	
					Non-Fibers	100
1945297-87.2	02-Oct-19	Black	Mastic	No	Client ID: BS 28.2 - E244 - VFT 12x12 - Off White w/ Grey Streaks	
					Non-Fibers	100
1945297-88.1	02-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 28.3 - E244 - VFT 12x12 - Off White w/ Grey Streaks	
					Non-Fibers	100
1945297-88.2	02-Oct-19	Black	Mastic	No	Client ID: BS 28.3 - E244 - VFT 12x12 - Off White w/ Grey Streaks	
					Non-Fibers	100
1945297-89	02-Oct-19	Brown	Ceiling Tile	No	Client ID: BS 29.1 - D108 - Men's Change Rm - 12x12 - ACT	
					Cellulose	95
					Non-Fibers	5
1945297-90	02-Oct-19	Brown	Ceiling Tile	No	Client ID: BS 29.2 - D108 - Men's Change Rm - 12x12 - ACT	
					Cellulose	95
					Non-Fibers	5
1945297-91	02-Oct-19	Brown	Ceiling Tile	No	Client ID: BS 29.3 - D108 - Men's Change Rm - 12x12 - ACT	
					Cellulose	95
					Non-Fibers	5

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-92.1	02-Oct-19	Brown	Mastic	No	Client ID: BS 30.1 - D108 - Ceiling Mastic (Pucks)	
					MMVF	3
					Non-Fibers	97
1945297-92.2	02-Oct-19	Grey	Ceiling Tile	No	Client ID: BS 30.1 - D108 - Ceiling Mastic (Pucks)	
					Cellulose	40
					MMVF	30
1945297-93.1	02-Oct-19	Brown	Mastic	No	Client ID: BS 30.2 - D108 - Ceiling Mastic (Pucks)	
					Non-Fibers	100
1945297-93.2	02-Oct-19	Grey	Ceiling Tile	No	Client ID: BS 30.2 - D108 - Ceiling Mastic (Pucks)	
					Cellulose	40
					MMVF	30
1945297-94.1	02-Oct-19	Brown	Mastic	No	Client ID: BS 30.3 - D108 - Ceiling Mastic (Pucks)	
					Non-Fibers	100
1945297-94.2	02-Oct-19	Grey	Ceiling Tile	No	Client ID: BS 30.3 - D108 - Ceiling Mastic (Pucks)	
					Cellulose	40
					MMVF	30
1945297-95	02-Oct-19	Grey	Plaster	No	Client ID: BS 31.1 - D108 - Ceiling Plaster	
					Non-Fibers	100
1945297-96	02-Oct-19	Grey	Plaster	No	Client ID: BS 31.2 - D108 - Ceiling Plaster	
					Non-Fibers	100
1945297-97	02-Oct-19	Grey	Plaster	No	Client ID: BS 31.3 - D108 - Ceiling Plaster	
					Non-Fibers	100

Certificate of Analysis

Report Date: 26-Nov-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Nov-2019

Client PO:

Project Description: Z1920014HZ-200 LEES

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-98	02-Oct-19	Grey	Insulation	No	Client ID: BS 32.1 - B100 Hallway - Sprayed Insulation	
					MMVF	90
					Non-Fibers	10
1945297-99	02-Oct-19	Grey	Insulation	No	Client ID: BS 32.2 - C141C - Tele Rm - Sprayed Insulation	
					MMVF	90
					Non-Fibers	10
1945297-AA	02-Oct-19	Grey	Insulation	No	Client ID: BS 32.3 - C141C - Tele Rm - Sprayed Insulation	
					MMVF	90
					Non-Fibers	10
1945297-AB	02-Oct-19	Grey	Insulation	No	Client ID: BS 32.4 - C201 - Sprayed Insulation	
					MMVF	90
					Non-Fibers	10
1945297-AC	02-Oct-19	Grey	Insulation	No	Client ID: BS 32.5 - C204 - Sprayed Insulation	
					MMVF	90
					Non-Fibers	10
1945297-AD	30-Sep-19	White	Drywall Joint Compound	No	Client ID: BS 33.1 - A136 - Drywall Joint Compound DJC	
					Non-Fibers	100
1945297-AE	01-Oct-19	Grey	Drywall Joint Compound	No	Client ID: BS 33.2 - A139A - Drywall Joint Compound DJC	[Z-01e]
					Cellulose	5
					Non-Fibers	95
1945297-AF	02-Oct-19	White	Drywall Joint Compound	No	Client ID: BS 33.3 - C115 - Drywall Joint Compound DJC	
					Non-Fibers	100
1945297-AG	02-Oct-19	White	Drywall Joint Compound	No	Client ID: BS 33.4 - B215 - Drywall Joint Compound DJC	
					Non-Fibers	100
1945297-AH	02-Oct-19	White	Drywall Joint Compound	No	Client ID: BS 33.5 - C200 Hallway - Drywall Joint Compound DJC	
					Non-Fibers	100

Certificate of Analysis
 Client: **McIntosh Perry Limited (Concord)**
 Client PO:

Report Date: 26-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: **Z1920014HZ-200 LEES**

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1945297-AI	02-Oct-19	White	Drywall Joint Compound	No	Client ID: BS 33.6 - E126 - Drywall Joint Compound DJC Non-Fibers	100
1945297-AJ	02-Oct-19	White	Drywall Joint Compound	No	Client ID: BS 33.7 - E053 - Drywall Joint Compound DJC Non-Fibers	100
1945297-AK	03-Oct-19	White	Drywall Joint Compound	No	Client ID: BS 34.1 - E038 - Mech. Rm - DJC Non-Fibers	100
1945297-AL	03-Oct-19	White	Drywall Joint Compound	No	Client ID: BS 34.2 - E038 - Mech. Rm - DJC Non-Fibers	100
1945297-AM	03-Oct-19	White	Drywall Joint Compound	No	Client ID: BS 34.3 - E038 - Mech. Rm - DJC Non-Fibers	100
1945297-AN.1	03-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 35.1- C115 - VFT 12x12 - Off White w/Dots Non-Fibers	100
1945297-AN.2	03-Oct-19				Client ID: BS 35.1- C115 - VFT 12x12 - Off White w/Dots not analyzed	[Z-01d]
1945297-AO.1	03-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 35.2- C115 - VFT 12x12 - Off White w/Dots Non-Fibers	100
1945297-AO.2	03-Oct-19				Client ID: BS 35.2- C115 - VFT 12x12 - Off White w/Dots not analyzed	[Z-01d]
1945297-AP.1	03-Oct-19	Off-white	Vinyl Floor Tile	No	Client ID: BS 35.3- C115 - VFT 12x12 - Off White w/Dots Non-Fibers	100
1945297-AP.2	03-Oct-19	Black	Mastic	No	Client ID: BS 35.3- C115 - VFT 12x12 - Off White w/Dots Non-Fibers	100

* MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool
 ** Analytes in bold indicate asbestos mineral content.

Certificate of Analysis

Report Date: 26-Nov-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Nov-2019

Client PO:

Project Description: Z1920014HZ-200 LEES

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	NVLAP Lab Code *	Analysis Date
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	1 - Mississauga	200863-0	7-Nov-19

* Reference to the NVLAP term does not permit the user of this report to claim product certification , approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Mississauga Lab: 15 - 6800 Kitimat Rd Mississauga, Ontario, L5N 5M1

Qualifier Notes

Sample Qualifiers :

- Z-01: Inseparable layers.
- Z-01a: Insufficient sample.
- Z-01b: no mastic present
- Z-01c: No mastic presents.
- Z-01d: No sample present.
- Z-01e: Sample appears to be drywall.
- Z-01f: Sample contains vermiculite.

Work Order Revisions | Comments

Revision 1: Report has been revised to reflect updated sample IDs per client.

Certificate of Analysis

McIntosh Perry Limited (Concord)

6240 Hwy 7, Suite 200
Woodbridge, ON L4H 0R2
Attn: Atif Mohamed

Client PO:
Project: Z1920014HZ-200 LEES
Custody:

Report Date: 8-Nov-2019
Order Date: 4-Nov-2019

Order #: 1945256

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

Parcel ID	Client ID
1945256-01	PB-1-A140-BEIGE, ABOVE DOOR VENT
1945256-02	PB-2-A140-BLUE, DOOR
1945256-03	PB-3-A144-BEIGE, FLOOR
1945256-04	PB-4-D109-MAROON, WALL
1945256-05	PB-5-A122-BLACK, WALL
1945256-06	PB-6-D201-WHITE, ON DUCTS
1945256-07	PB-7-208B-TEAL GREEN, WALL
1945256-08	PB-8-E254-OFF WHITE, WALL
1945256-09	PB-9-A02-MECH. RM-GREY, FLOOR

Approved By:



Mark Foto, M.Sc.
Lab Supervisor

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

Certificate of Analysis
Client: McIntosh Perry Limited (Concord)
Client PO:

Report Date: 08-Nov-2019
Order Date: 4-Nov-2019
Project Description: Z1920014HZ-200 LEES

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Metals, ICP-MS	EPA 6020 - Digestion - ICP-MS	6-Nov-19	7-Nov-19

Sample and QC Qualifiers Notes

1- GEN01 :Elevated Reporting Limits due to limited sample volume.

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

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

Certificate of Analysis
 Client: McIntosh Perry Limited (Concord)
 Client PO:

Report Date: 08-Nov-2019
 Order Date: 4-Nov-2019
 Project Description: Z1920014HZ-200 LEES

Sample Results

Lead				Matrix: Paint
				Sample Date: 01-Oct-19
Parcel ID	Client ID	Units	MDL	Result
1945256-04	PB-4-D109-MAROON, WALL	%	0.0005	<0.0019 [1]
1945256-05	PB-5-A122-BLACK, WALL	%	0.0005	0.0579
1945256-06	PB-6-D201-WHITE, ON DUCTS	%	0.0005	0.167
1945256-07	PB-7-208B-TEAL GREEN, WALL	%	0.0005	0.0006
1945256-08	PB-8-E254-OFF WHITE, WALL	%	0.0005	0.0020
1945256-09	PB-9-A02-MECH. RM-GREY, FLOOR	%	0.0005	0.189

Lead				Matrix: Paint
				Sample Date: 30-Sep-19
Parcel ID	Client ID	Units	MDL	Result
1945256-01	PB-1-A140-BEIGE, ABOVE DOOR VENT	%	0.0005	0.0753
1945256-02	PB-2-A140-BLUE, DOOR	%	0.0005	0.0008
1945256-03	PB-3-A144-BEIGE, FLOOR	%	0.0005	0.0173

Laboratory Internal QA/QC

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Matrix Blank									
Lead	ND	0.0005	%						
Matrix Duplicate									
Lead	ND	0.0005	%	0.00082			0.0	50	
Matrix Spike									
Lead	0.129	0.0005	%	0.00082	102	70-130			

APPENDIX D
Site Photographs



Photo 1: View of asbestos-containing interior window caulking (black) observed to be in good condition in Room 139.



Photo 2: View of asbestos-containing mechanical pipe straight insulation observed to be in poor condition in cabinet 510 in Room A 105.



Photo 3: View of asbestos-containing mechanical pipe straight insulation observed to be in poor condition on the 2nd work bench outside the bike shop office in Room A 105.



Photo 4: View of asbestos-containing mechanical pipe fittings observed to be in poor condition in Room A104.

This damage has been repaired.



Photo 5: View of asbestos-containing plaster on steel mesh observed in Room B 215N.



Photo 6: View of asbestos-containing pipe gasket observed on the Unilux Boiler in Mechanical Room A02.



Photo 7: View of asbestos-containing transite pipe (highlighted in red) observed to be in good condition Mechanical Room A138C.

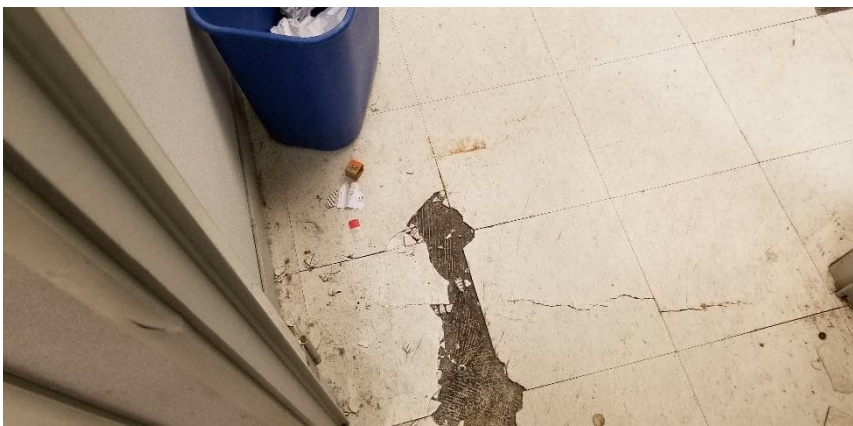


Photo 8: View of asbestos-containing vinyl floor tile (12"x12"-White with beige spots) observed to be in poor condition in Room C144.

This damage has been repaired.



Photo 9: View of non-asbestos-containing fireproofing observed above the suspended ceiling tiles in Room C141C.



Photo 10: View of non-asbestos-containing vinyl floor tiles (12"x12"-Pink with dots) and vinyl floor tiles (12"x12"-Offwhite with dots) observed in RoomC115.



Photo 11: View of non-asbestos-containing glued-on acoustic tile (12"x12"-Uniform Holes) and adhesive mastic (brown) observed in the Men's Change Room in D108.



Photo 12: View of low-level lead paint observed to be in poor condition in Room A144.



Photo 13: View lead containing white paint was observed to be in poor condition in Mechanical Room D201.



Photo 14: View of water damage on drywall observed in Room E117.



Photo 15: View of lead acid battery pack observed outside of D201.



Photo 16: View of a diagnostic machine suspected to contain radioactive materials observed in Room E029.



Photo 17: Typical view of non-PCB containing light ballast observed throughout the surveyed building.



Photo 18: View of water-stained suspended ceiling tiles in Room A104C.

This damage has been repaired.

APPENDIX E

Asbestos-Containing Materials Checklists

Floor/Level	Location	Type of ACM	Asbestos Confirmed/Suspected	Friable/Non-Friable	Damaged/Deteriorated	Accessibility	Level of Work Near Material	Quantity #	Unit	Recommended Action	Comments
0	Room A02	Mechanical Gasket Insulation	Confirmed	Friable	Good Condition	Easy	Moderate	1	SF	Repair or Remove Following Type 1/2 Abatement Procedures	
0	Room E029	Mechanical Pipe fittings/Elbows Insulation	Confirmed	Friable	Good Condition	Moderate	Moderate	~4	C	Manage in Place	
0	Throughout Level	Fire Doors	Suspected	Non-Friable	Good Condition	Easy	Low	N/A	N/A	Manage in Place	
1	Room A139	Window Caulking (Black)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	~300	LF	Manage in Place	
1	Room A105	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Easy	Moderate	5	LF	Remove Following Type 2 (Glovebag) Abatement Procedures	Observed in between workbenches at Cabinet 510.
1	Room A104C	Mechanical Pipe fittings/Elbows Insulation	Confirmed	Friable	Good Condition	Easy	Moderate	10	C	Remove Following Type 2 (Glovebag) Abatement Procedures	
1	Room A138C	Transite	Suspected	Non-Friable	Good Condition	Difficult	Low	1	LF	Manage in Place	
1	Room A142	Ceiling Plaster (Gray)	Confirmed	Friable	Good Condition	Difficult	Moderate	100	SF	Manage in Place	
1	Room C100D	Ceiling Plaster (Gray)	Confirmed	Friable	Good Condition	Moderate	Moderate	100	SF	Manage in Place	
1	Room C110	Vinyl Floor Tiles (12"x12"-White with beige spots)	Confirmed	Non-Friable	Fair Condition	Easy	Low	~20	SF	Monitor Condition of Material. Consider Removal or Repair.	Elevator within B100 Hallway
1	Throughout Level	Fire Doors	Suspected	Non-Friable	Good Condition	Easy	Moderate	N/A	N/A	Manage in Place	
2	Room B215N	Wall Plaster (Gray)	Confirmed	Friable	Fair Condition	Moderate	Moderate	~100	SF	Monitor Condition of Material. Consider Removal or Repair.	
2	Throughout Level	Fire Doors	Suspected	-	Good Condition	Easy	Low	-	N/A	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Quantity #	Unit	Recommended Action	Comments
Roof	Throughout Level	Roofing Materials	Suspected	-	Good Condition	Easy	Low	-	N/A	Manage in Place	

APPENDIX F

Hazardous Containing Materials Checklists

Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Comments
0	A02	Lead	Battery Pack	N/A	Good Condition	Various	2	C	Confirmed	Manage In Place	
0	A02	Lead	Battery Pack	N/A	Good Condition	LumaCell	1	C	Confirmed	Manage In Place	
0	A02	Mercury	Pressure Gauges, Float Switch	N/A	Good Condition	Various	-	-	Confirmed	Manage In Place	
0	C02	Mercury	Pressure Gauges, Float Switch	N/A	Good Condition	Various	-	-	Confirmed	Manage In Place	
0	E037	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Frigidaire	1	C	Confirmed	Manage In Place	
0	Room E026	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Woods	1	C	Confirmed	Manage in Place	
0	Room E043	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Woods	1	C	Confirmed	Manage in Place	
0	E010 Hallway	Lead	Paint	White	Good Condition	N/A	-	-	Confirmed	Manage in Place	
0	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	N/A	-	N/A	Confirmed	Manage in Place	
0	Room E029	Lead	Drywall	N/A	Good Condition	N/A	-	-	Suspected	Manage in Place	Potential lead shielding in the vicinity of Room E029
0	Room E029	Radioactive Materials	Diagnostic Equipment	N/A	Good Condition	GE Medical Systems	1	C	Confirmed	Manage in Place	
0	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage in Place	
0	Throughout Level	Lead	Battery Pack	N/A	Good Condition	N/A	-	-	Confirmed	Manage in Place	
0	Room E041	Ozone Depleting Substances (ODS)	Air Conditioning Unit	N/A	Good Condition	Climate-Master	1	C	Confirmed	Manage in Place	
0	Room E042	Ozone Depleting Substances (ODS)	Air Conditioning Unit	N/A	Good Condition	Keep-Rite	1	C	Confirmed	Manage in Place	

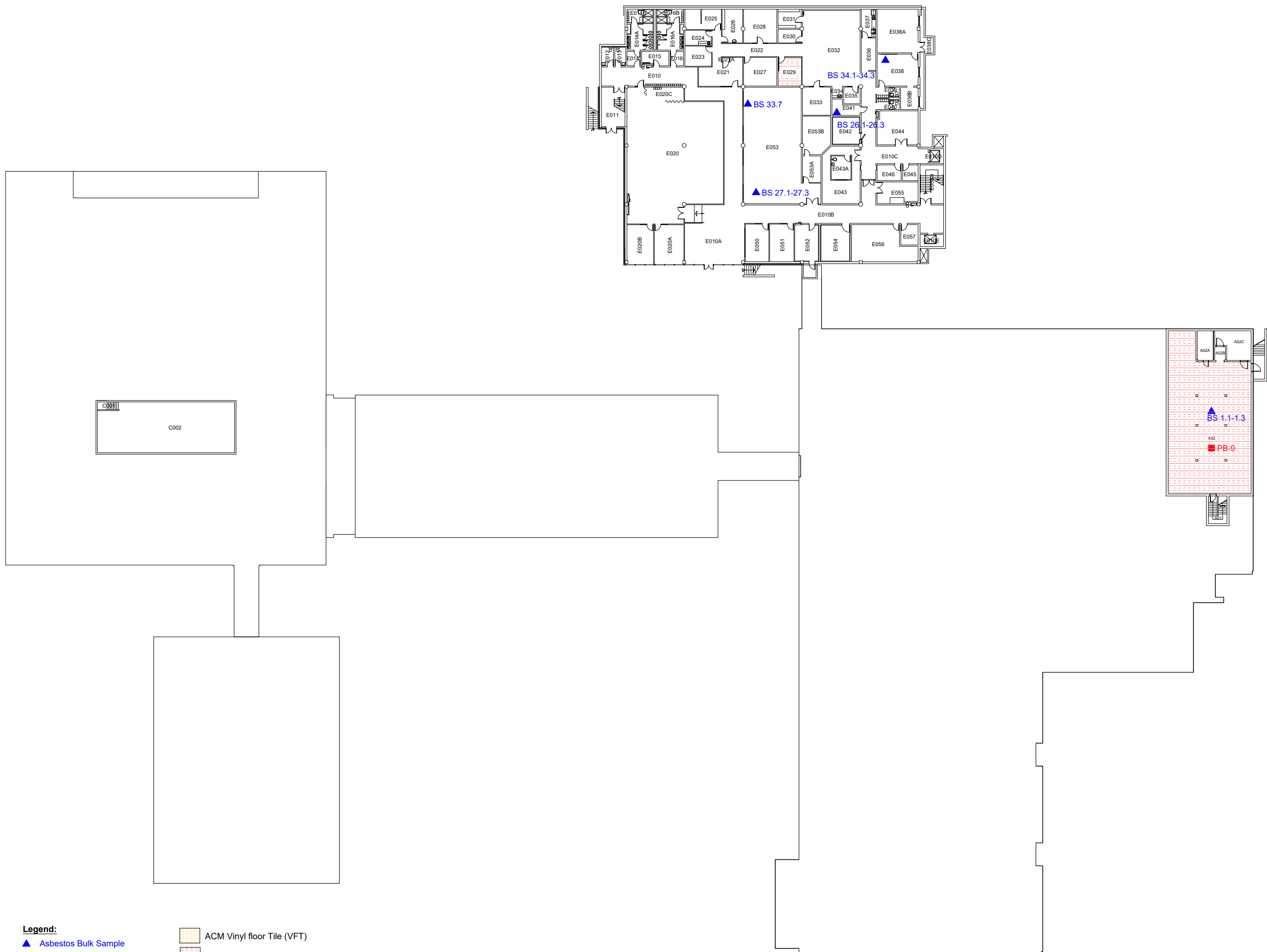
Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Comments
0	Room E043	Ozone Depleting Substances (ODS)	Air Conditioning Unit	N/A	Good Condition	Norbac	1	C	Confirmed	Manage in Place	
1	A105	Lead	Battery Pack	N/A	Good Condition	LumaCell	1	C	Confirmed	Manage In Place	
1	A133	Lead	Battery Pack	N/A	Good Condition	LumaCell	1	C	Confirmed	Manage In Place	
1	A140	Lead	Paint	Beige	Poor Condition	N/A	-1	SF	Confirmed	Paint must be removed and/or stabilized following Class 1/2 or Type 1/2 lead Safety Procedures as per EACC Guidelines.	
1	A144	Lead	Paint	Beige	Poor Condition	N/A	-800	SF	Confirmed	Paint must be removed and/or stabilized following Class 1/2 or Type 1/2 lead Procedures as per MOL and EACC Guidelines.	
1	Room A139	Lead	Paint	White	Good Condition	N/A	-	-	Confirmed	Manage in Place	
1	Room B157, Columns	Lead	Paint	White	Good Condition	N/A	-	-	Confirmed	Manage in Place	
1	Throughout Level	Lead	Paint	Beige	Good Condition	N/A	-	-	Confirmed	Manage in Place	
1	Room A129	Ozone Depleting Substances (ODS)	Ice Making Machine	N/A	Good Condition	Manitowoc	1	C	Confirmed	Manage in Place	
1	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	N/A	-	N/A	Confirmed	Manage in Place	
1	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage in Place	
1	Room A129	Ozone Depleting Substances (ODS)	Air Conditioning Unit	N/A	Good Condition	N/A	1	C	Confirmed	Manage in Place	
1	Room B153A	Ozone Depleting Substances (ODS)	Air Conditioning Unit	N/A	Good Condition	Mitsubishi	1	C	Confirmed	Manage in Place	
1	E103	Ozone Depleting Substances (ODS)	Air Conditioning Unit	N/A	Good Condition	Friedrich	1	C	Confirmed	Manage in Place	

Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Comments
2	C200	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Various	1	C	Confirmed	Manage in Place	
2	E255A	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Thermo-Scientific	3	C	Confirmed	Manage in Place	
2	E250	Lead	Battery Pack	White	Good Condition	N/A	1	c	Confirmed	Manage in Place	
2	Room B208B	Lead	Paint	White	Poor Condition	N/A	~6	SF	Confirmed	Paint must be removed and/or stabilized following Class 1/2 or Type 1/2 lead Procedures as per MOL and EACC Guidelines.	
2	Room D201	Lead	Paint	White	Poor Condition	N/A	~12	SF	Confirmed	Paint must be removed and/or stabilized following Class 1/2 or Type 1/2 lead Procedures as per MOL and EACC Guidelines.	
2	Throughout Level	Lead	Paint	White	Good Condition	N/A	-	-	Confirmed	Manage in Place	
2	B208B	Lead	Paint	Green	Poor Condition	N/A	~1	SF	Confirmed	Paint must be removed and/or stabilized following Class 1/2 or Type 1/2 lead Procedures as per MOL and EACC Guidelines.	
2	Throughout Level	Lead	Paint	Green	Good Condition	N/A	-	-	Confirmed	Manage In Place	
2	E255	Ozone Depleting Substances (ODS)	Ice Making Machine	N/A	Good Condition	Hoshizaki	1	C	Confirmed	Manage in Place	
2	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	N/A	-	N/A	Confirmed	Manage in Place	
2	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	N/A	Confirmed	Manage in Place	
2	Throughout Level	Lead	Battery Pack	N/A	Good Condition	N/A	-	N/A	Confirmed	Manage in Place	

Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Comments
2	Throughout Level	Ozone Depleting Substances (ODS)	Ice Making Machine	N/A	Good Condition	Hoshizaki	1	C	Confirmed	Manage in Place	
3	E301	Lead	Battery Pack	N/A	Good Condition	N/A	1	C	Confirmed	Manage In Place	
3	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	N/A	-	N/A	Confirmed	Manage in Place	
3	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	N/A	Confirmed	Manage in Place	
3	Throughout Level	Lead	Battery Pack	N/A	Good Condition	Various	-	N/A	Confirmed	Manage in Place	

APPENDIX G

Site Sampling & Location Plans



Legend:

- ▲ Asbestos Bulk Sample
- Lead Paint Sample
- ACM Vinyl floor Tile (VFT)
- ACM Pipe Insulation
- ACM Plaster
- ACM Window Caulking

REV DATE	DESCRIPTION	BY

McINTOSH PERRY
 6240 HIGHWAY 7, SUITE 200
 WOODBRIDGE, ON., L4H 4G3
 Tel: 905.856.5200 Fax: 905.695.0221
 Toll Free: 1.888.348.8991
 www.mcintoshperry.com



uOttawa

**Immeubles
Facilities**

200 LEES
 200 LESS

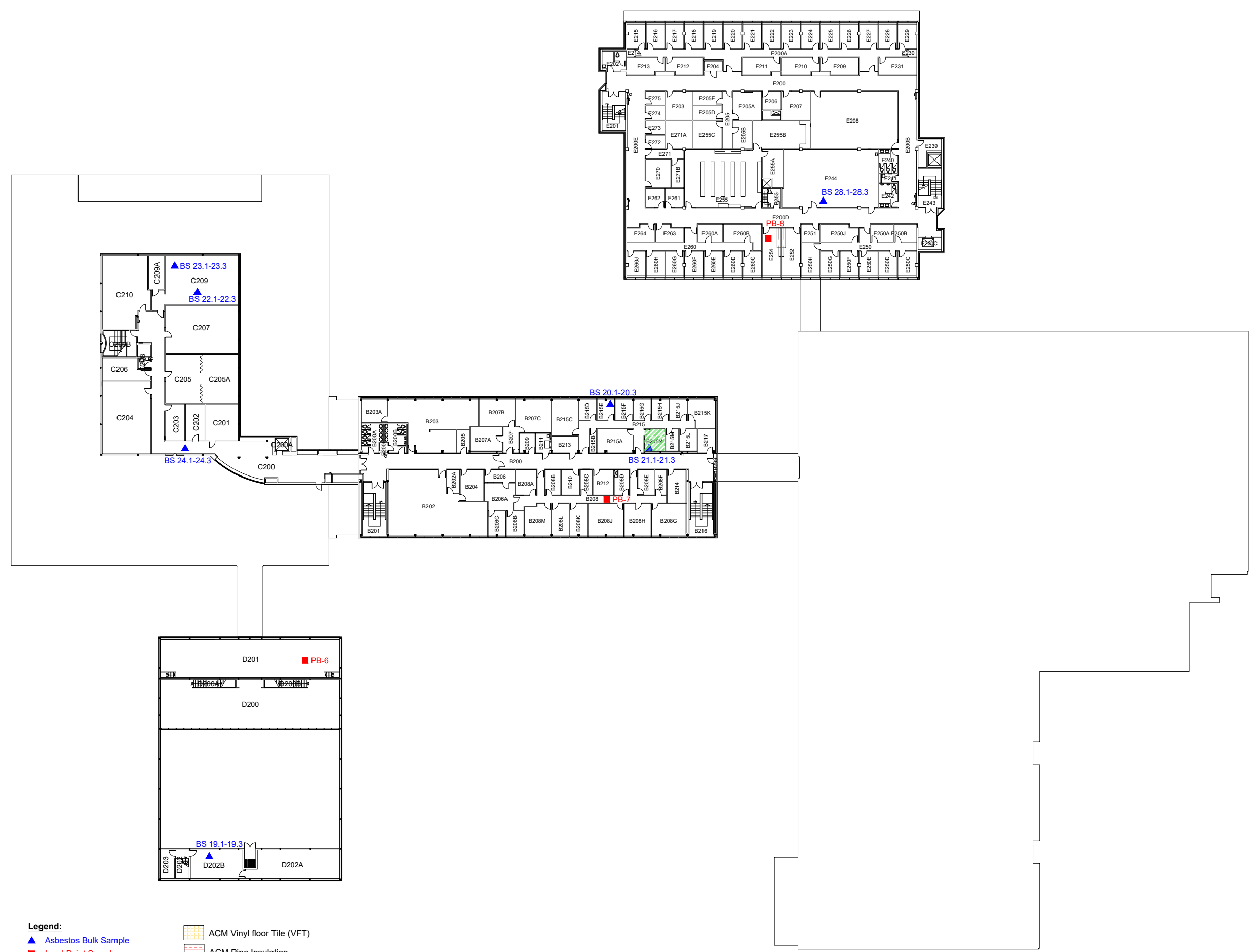
 200 LESS

Dessin / Drawing: **LEVEL 0
BUILDING COMBINATION**

Édifice/Bldg ---- 060 ----	Niveau/Level: 0 ----
Echelle/Scale: 1:600	Feuille/Sheet: A-0 of/de
Revision: 1	09/09/2015

JB BUILDING COMBINED

REV DATE	DESCRIPTION	BY



- Legend:**
- ▲ Asbestos Bulk Sample
 - Lead Paint Sample
 - ACM Vinyl floor Tile (VFT)
 - ACM Pipe Insulation
 - ACM Plaster
 - ACM Window Caulking

McINTOSH PERRY
 6240 HIGHWAY 7, SUITE 200
 WOODBRIDGE, ON., L4H 4G3
 Tel: 905.856.5200 Fax: 905.695.0221
 Toll Free: 1.888.348.8991
 www.mcintoshperry.com

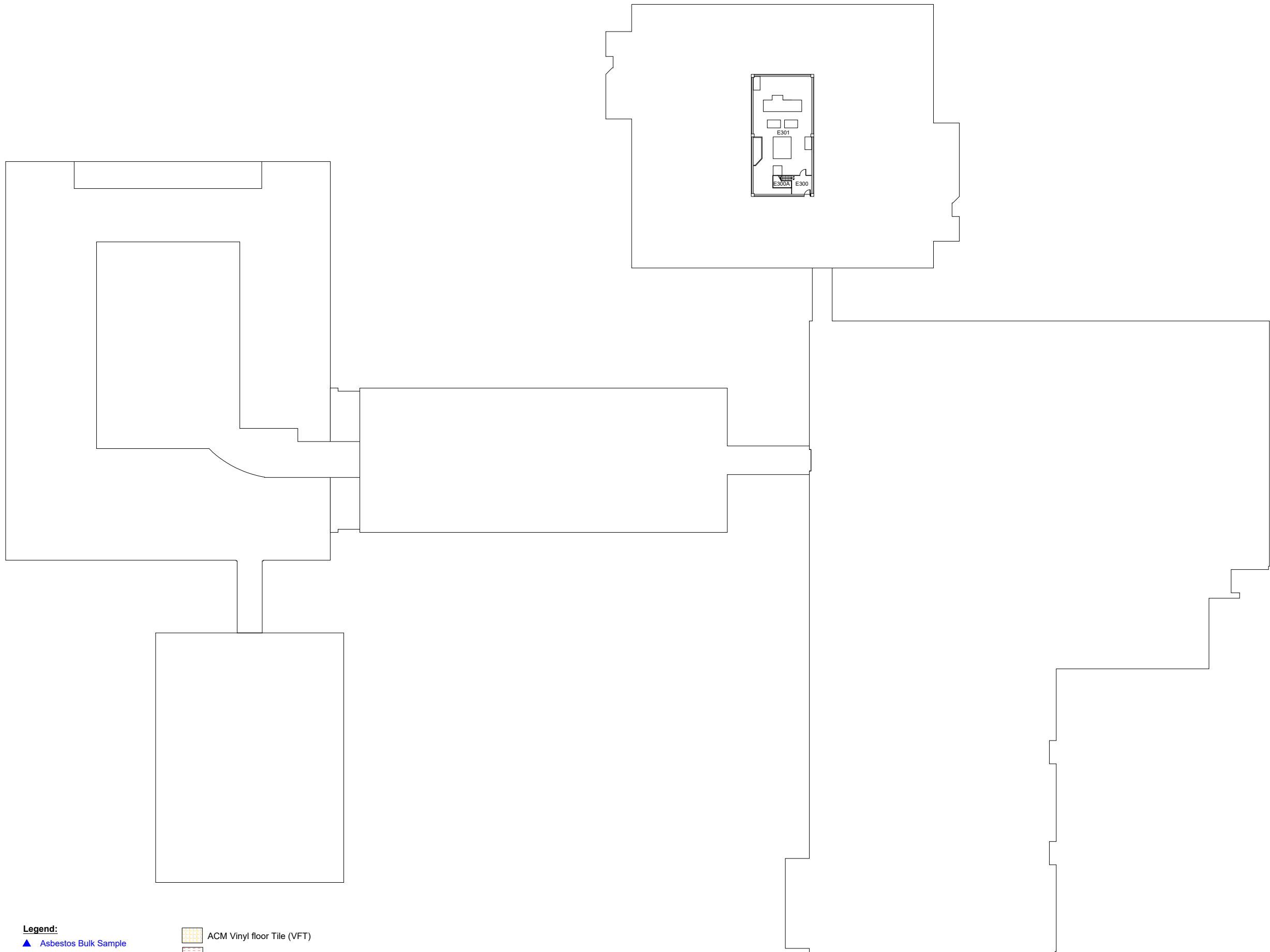


200 LEES
 200 LESS

 200 LESS

Dessin / Drawing:		LEVEL 2 BUILDING COMBINATION	
Édifice/Bldg	060	Niveau/Level:	0
Echelle/Scale:	1:600	Feuille/Sheet:	A-2 of/de
Revision:	1	Date:	09/09/2015

BUILDING COMBINED



Legend:

- ▲ Asbestos Bulk Sample
- Lead Paint Sample

- ACM Vinyl floor Tile (VFT)
- ACM Pipe Insulation
- ACM Plaster
- ACM Window Caulking

REV DATE	DESCRIPTION	BY

McINTOSH PERRY
 6240 HIGHWAY 7, SUITE 200
 WOODBRIDGE, ON., L4H 4G3
 Tel: 905.856.5200 Fax: 905.695.0221
 Toll Free: 1.888.348.8991
 www.mcintoshperry.com



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**Immeubles
Facilities**

200 LEES
 200 LESS

 200 LESS

Dessin / Drawing: **LEVEL 3**
BUILDING COMBINATION

Édifice/Bldg ---- 060 ----	Niveau/Level: 0 ----
Echelle/Scale: 1:600	Revised: 1
08/09/2015	A-3 of/de

JB BUILDING COMBINED