

# HAZARDOUS MATERIALS SURVEY AND 2023 REASSESSMENT ROGER GUINDON HALL, OTTAWA, ON



Project No.: Z1920014HZ / CCC-230252-00

Prepared for:

University of Ottawa

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McINTOSH PERRY

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## REASSESSMENT SURVEY 2023

McIntosh Perry Limited (**MPL**) was retained by the University of Ottawa, to complete to a hazardous materials survey of Marchand Residence located at 451 Smyth Road. The original survey was conducted on September 9<sup>th</sup> to 18<sup>th</sup>, 2019. **The reassessment was completed on March 04<sup>th</sup>, 2024.**

The purpose of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM) and develop corrective action plans as required for the purposes of long-term management.

The assessment and reassessment determined the following findings and recommendations.

### Summary of the Reassessment Findings:

- ACM Vinyl Floor Tile (VFT) was observed to be in Good Condition in select areas of the subject building.
- ACM Carpet Mastic was observed to be in Good Condition throughout the subject building.
- Water damaged materials were observed in rooms 1412, 1007, 1007 B, 1135, 2160, 3201,3202 and 3062 in the subject building.
- No mould affected materials were observed during the site survey.

### Summary of Recommendations:

- Perform a reassessment of asbestos materials on an annual basis.
- Perform a pre-construction assessment and remove all asbestos-containing materials (ACM) prior to alterations or maintenance work if ACM may be disturbed by the work.
- Follow appropriate safe work procedures when handling or disturbing asbestos.
- Sample any presumed ACM prior to alteration or maintained work if presumed ACM may be disturbed by the work.



## EXECUTIVE SUMMARY

McIntosh Perry Limited (**MPL**) was retained by the University of Ottawa to complete a hazardous materials survey for Roger Guindon Hall located at 451 Smyth Road in Ottawa, ON. The original survey was conducted between September 9<sup>th</sup> to 18<sup>th</sup>, 2019. **The Reassessment Survey was completed on February 28<sup>th</sup>, 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 ACMs were previously identified or suspected to be present in the building:

**Table A: Summary of Asbestos-Containing Materials Identified**

Material Description	Friable?	Location	Type of Asbestos
Vinyl Floor Tiles	No	Specific Areas Only	Chrysotile
Carpet Mastic/Adhesive	No	Throughout Building	Chrysotile
Transite	No	Throughout Building	Suspected
Fire Doors	-	Throughout Building	Suspected
Roofing Materials	-	Roof	Suspected

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

All repairs or removal of asbestos-containing materials 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 asbestos-containing material should be informed of its presence;

Given that asbestos-containing materials (ACMs) have been identified and will likely remain in place, an Asbestos Management Plan (AMP) is therefore required and 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.

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**

<b>Material Description</b>	<b>Location</b>
Lead Paint	Throughout Building
Lead Acid Batteries	Specific Areas Only
Mercury Liquid	Specific Areas Only
Ozone Depleted Substances	Specific Areas Only
Silica	Throughout Building
Above Ground Storage Tanks (ASTs)	Specific Areas Only
Mercury Vapour	Throughout Building
Mould/ Water Damage	Specific Areas Only

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

Designated Substances are 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 above-mentioned materials:

- 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 Ontario (EACO) Mould Abatement Guidelines.

Prior to any renovations or demolition activities within 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.**

March 06, 2024

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Re: Roger Guindon Hall, University of Ottawa - 451 Smyth Road  
Hazardous Materials Survey and 2023 Reassessment  
McIntosh Perry Limited Reference No. Z1920014HZ / CCC-230252-00

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## 1.0 INTRODUCTION

In accordance with your instructions, McIntosh Perry Limited (MPL) carried out a Hazardous Materials Survey at Roger Guindon Hall, the institutional building located at 451 Smyth Road in Ottawa, ON. The site is situated on the northeast corner of the intersection of Smyth Road and Alta Vista Drive. The original survey of the building was conducted September 9<sup>th</sup> to 18<sup>th</sup> 2019. **The Reassessment Survey was completed on February 28<sup>th</sup>, 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;
- Review of previously completed Hazardous Materials Survey(s) and historical building record(s); and,
- Recommendations for appropriate action where required.

## 2.0 PROPERTY DESCRIPTION

The subject building is a five-storey institutional building, covering approximately 548,250 square feet and constructed circa 1981. The subject building was observed to be constructed with a concrete slab floor, exterior walls, and roof deck. The interior walls were observed to be concrete, concrete block and gypsum wallboard. Ceilings were observed to be either concrete or suspended ceiling tiles. The floors were observed to be terrazzo, vinyl floor tiles, concrete, ceramic tiles, and carpet.

## 3.0 FINDINGS & RECOMMENDATIONS

### Designated Substances

### 3.1 Asbestos

#### *Findings*

A total of one hundred and six (106) bulk samples were previously collected during the survey and sent to an independent 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.

Laboratory certificates of analysis for asbestos are included in Appendix C.

**Table 1:**  
**Asbestos Laboratory Results**

Sample ID	Location	Material	Type and Content	Friability
BS 1.1	Room 1002K	Drywall Joint Compound	None Detected	N/A
BS 1.2	Room 1100	Drywall Joint Compound	None Detected	N/A
BS 1.3	Room 2002H	Drywall Joint Compound	None Detected	N/A
BS 1.4	Room 2026	Drywall Joint Compound	None Detected	N/A
BS 1.5	Room 2149	Drywall Joint Compound	None Detected	N/A
BS 1.6	Room 2474	Drywall Joint Compound	None Detected	N/A
BS 1.7	Room 3033	Drywall Joint Compound	None Detected	N/A
BS 1.8	Room 3244	Drywall Joint Compound	None Detected	N/A
BS 1.9	Room 3142	Drywall Joint Compound	None Detected	N/A
BS 1.10	Room 4130	Drywall Joint Compound	None Detected	N/A
BS 1.11	Room 4172B	Drywall Joint Compound	None Detected	N/A
BS 1.12	Room 4200F	Drywall Joint Compound	None Detected	N/A
BS 1.13	Room 5004	Drywall Joint Compound	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 1.14	Room 5005	Drywall Joint Compound	None Detected	N/A
BS 2.1	Room 1101	Ceiling Texture Coat	None Detected	N/A
BS 2.2	Room 2002H	Ceiling Texture Coat	None Detected	N/A
BS 2.3	Room 3102	Ceiling Texture Coat	None Detected	N/A
BS 2.4	Room 4102	Ceiling Texture Coat	None Detected	N/A
BS 2.5	Room 4100	Ceiling Texture Coat	None Detected	N/A
BS 3.1	Room 1113	VSF – Beige Honeycomb Pattern	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 3.2	Room 1113	VSF – Beige Honeycomb Pattern	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 3.3	Room 1113	VSF – Beige Honeycomb Pattern	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 4.1	Room 3249A	VSF – Grey Marble Pattern	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 4.2	Room 3249A	VSF – Grey Marble Pattern	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 4.3	Room 3249A	VSF – Grey Marble Pattern	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 5.1	Room 3512	VSF - Blue	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 5.2	Room 3512	VSF - Blue	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 5.3	Room 3512	VSF - Blue	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 6.1	Room 3492	VFT 12"x12" – Blue w/ Black Dots	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 6.2	Room 3492	VFT 12"x12" – Blue w/ Black Dots	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 6.3	Room 3492	VFT 12"x12" – Blue w/ Black Dots	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 7.1	Room 4002	SCT – 2'x4' Pinholes w/ Minor Texture	None Detected	N/A
BS 7.2	Room 4002	SCT – 2'x4' Pinholes w/ Minor Texture	None Detected	N/A
BS 7.3	Room 4002	SCT – 2'x4' Pinholes w/ Minor Texture	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 8.1	Room 4172	SCT – 2'x4' Pinholes w/ Small Fissures	None Detected	N/A
BS 8.2	Room 4172	SCT – 2'x4' Pinholes w/ Small Fissures	None Detected	N/A
BS 8.3	Room 4172	SCT – 2'x4' Pinholes w/ Small Fissures	None Detected	N/A
BS 9.1	Room 3245A	Carpet Mastic (Brown)	None Detected	N/A
BS 9.2	Room 3245A	Carpet Mastic (Brown)	None Detected	N/A
BS 9.3	Room 3245A	Carpet Mastic (Brown)	None Detected	N/A
BS 10.1	Room 3011	Carpet Mastic (Grey)	None Detected	N/A
BS 10.2	Room 3011	Carpet Mastic (Grey)	None Detected	N/A
BS10.3	Room 3011	Carpet Mastic (Grey)	None Detected	N/A
BS 11.1	Room 3010	Wallpaper (White)	None Detected	N/A
BS 11.2	Room 3010	Wallpaper (White)	None Detected	N/A
BS 11.3	Room 3010	Wallpaper (White)	None Detected	N/A
BS 12.1	Room 5004	Pipe Elbow/Fitting Parging Cement	None Detected	N/A
BS 12.2	Room 5004	Pipe Elbow/Fitting Parging Cement	None Detected	N/A
BS 12.3	Room 5002	Pipe Elbow/Fitting Parging Cement	None Detected	N/A
BS 13.1	Room 3003A	Pipe Elbow/Fitting Parging Cement (Dom. Cold Water)	None Detected	N/A
BS 13.2	Room 3003A	Pipe Elbow/Fitting Parging Cement (Dom. Cold Water)	None Detected	N/A
BS 13.3	Room 3003A	Pipe Elbow/Fitting Parging Cement (Dom. Cold Water)	None Detected	N/A
BS 14.1	Room 3003A	Pipe Elbow/Fitting Parging Cement (Reject Water)	None Detected	N/A
BS 14.2	Room 3003A	Pipe Elbow/Fitting Parging Cement (Reject Water)	None Detected	N/A
BS 14.3	Room 3003A	Pipe Elbow/Fitting Parging Cement (Reject Water)	None Detected	N/A
BS 15.1	Room 4172D	VFT 12"x12" – Beige w/ Brown & White Flakes	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 15.2	Room 4172D	VFT 12"x12" – Beige w/ Brown & White Flakes	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 15.3	Room 4172D	VFT 12"x12" – Beige w/ Brown & White Flakes	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 16.1	Room 1005E	VSF - White	None Detected	N/A
BS 16.2	Room 1005E	VSF - White	None Detected	N/A
BS 16.3	Room 1005E	VSF - White	None Detected	N/A
BS 17.1	Room 1020	Carpet Mastic (Grey)	None Detected	N/A
BS 17.2	Room 1020	Carpet Mastic (Grey)	None Detected	N/A
BS 17.3	Room 1020	Carpet Mastic (Grey)	None Detected	N/A
BS 18.1	Room 1020K	VFT 12"x12" – Brown w/ Light & Dark Marble	None Detected	N/A
BS 18.2	Room 1020K	VFT 12"x12" – Brown w/ Light & Dark Marble	None Detected	N/A
BS 18.3	Room 1020K	VFT 12"x12" – Brown w/ Light & Dark Marble	None Detected	N/A
BS 19.1	Room 1020N	VFT 12"x12" – Salmon	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 19.2	Room 1020N	VFT 12"x12" – Salmon	None Detected	N/A
BS 19.3	Room 1020N	VFT 12"x12" – Salmon	None Detected	N/A
BS 20.1	Room 1100A	SCT – 2'x4' Pinholes & Large Fissures	None Detected	N/A
BS 20.2	Room 1100A	SCT – 2'x4' Pinholes & Large Fissures	None Detected	N/A
BS 20.3	Room 1100A	SCT – 2'x4' Pinholes & Large Fissures	None Detected	N/A
BS 21.1	Room 1112	VSF – Beige & Grey Geometric Pattern	None Detected	N/A
BS 21.2	Room 1112	VSF – Beige & Grey Geometric Pattern	None Detected	N/A
BS 21.3	Room 1112	VSF – Beige & Grey Geometric Pattern	None Detected	N/A
BS 22.1	Room 1133	VFT 12"x12" – Cream w/ Maroon Flakes	None Detected	N/A
BS 22.2	Room 1133	VFT 12"x12" – Cream w/ Maroon Flakes	None Detected	N/A
BS 22.3	Room 1133	VFT 12"x12" – Cream w/ Maroon Flakes	None Detected	N/A
BS 23.1	Room 1136	SCT – 2'x4' Pinholes & Small Fissures	None Detected	N/A
BS 23.2	Room 1136	SCT – 2'x4' Pinholes & Small Fissures	None Detected	N/A
BS 23.3	Room 1136	SCT – 2'x4' Pinholes & Small Fissures	None Detected	N/A
<b>BS 24.1</b>	<b>Room 1136A</b>	<b>VFT 12"x12" – Beige w/ Grey Flakes</b>	<b>1% Chrysotile</b>	<b>Non-Friable</b>
<b>BS 24.2</b>	<b>Room 1136A</b>	<b>VFT 12"x12" – Beige w/ Grey Flakes</b>	<b>Stop Positive</b>	<b>Non-Friable</b>
<b>BS 24.3</b>	<b>Room 1136A</b>	<b>VFT 12"x12" – Beige w/ Grey Flakes</b>	<b>Stop Positive</b>	<b>Non-Friable</b>
BS 25.1	Room 1138	Pipe Elbow/Fitting Parging Cement (Supply Line)	None Detected	N/A
BS 25.2	Room 1138	Pipe Elbow/Fitting Parging Cement (Supply Line)	None Detected	N/A
BS 25.3	Room 1138	Pipe Elbow/Fitting Parging Cement (Supply Line)	None Detected	N/A
<b>BS 26.1</b>	<b>Room 2005</b>	<b>Carpet Mastic (Grey)</b>	<b>3% Chrysotile</b>	<b>Non-Friable</b>
<b>BS 26.2</b>	<b>Room 2005</b>	<b>Carpet Mastic (Grey)</b>	<b>Stop Positive</b>	<b>Non-Friable</b>
<b>BS 26.3</b>	<b>Room 2005</b>	<b>Carpet Mastic (Grey)</b>	<b>Stop Positive</b>	<b>Non-Friable</b>

N/A – Not Applicable

VFT – Vinyl Floor Tiles

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

Please refer to Appendix E – Asbestos-Containing Materials Checklist for material conditions, approximate quantities (where applicable), and recommended actions.

The following building materials (if present) were investigated for asbestos content,

### **3.1.1 Fireproofing**

No fireproofing was observed in the subject building.



### **3.1.2 Mechanical Pipe Insulation**

#### **3.1.2.1 Mechanical Pipe Straight Insulation**

Mechanical pipe straight insulation was observed within ceiling spaces and mechanical rooms of the subject building. MPL made previously several incisions throughout to investigate its composition, and it was visually identified as fiberglass, and therefore not suspected of containing asbestos.

#### **3.1.2.2 Mechanical Piping Elbows/Fittings Insulation**

Several different types of mechanical pipe elbow/fitting insulation were observed and previously sampled within the subject building as follows:

- Pipe elbow/fitting parging cement was observed and previously sampled from Rooms 5004 and 5002. The laboratory analytical results of the mechanical pipe elbow/fitting insulation samples collected indicated that this material does not contain asbestos.
- Pipe elbow/fitting parging cement (Dom. Cold Water Line) was observed and previously sampled from Room 3003A. The laboratory analytical results of the mechanical pipe elbow/fitting insulation samples collected indicated that this material does not contain asbestos.
- Pipe elbow/fitting parging cement (Reject Water Line) was observed and previously sampled from Room 3003A. The laboratory analytical results of the mechanical pipe elbow/fitting insulation samples collected indicated that this material does not contain asbestos.
- Pipe elbow/fitting parging cement (Supply Line) was observed and previously sampled from Room 1138. The laboratory analytical results of the mechanical pipe elbow/fitting insulation samples collected indicated that this material does not contain asbestos.
- Mechanical pipe elbow/fitting insulation was observed within ceiling spaces and mechanical rooms of the subject building. MPL made several incisions throughout to investigate its composition, and it was visually identified as fiberglass, and therefore not suspected of containing asbestos.

#### **3.1.2.3 Mechanical Piping Hangers Insulation**

Mechanical piping hanger insulation was observed within ceiling spaces of the subject building. MPL made previously several incisions throughout to investigate its composition, and it was visually identified as fiberglass, and therefore not suspected of containing asbestos.

#### **3.1.2.4 HVAC Duct Insulation**

HVAC duct insulation was observed in ceiling spaces and mechanical rooms throughout the subject building. MPL previously made several incisions throughout to investigate its composition, and it was visually identified as fiberglass, and therefore not suspected of containing asbestos.

#### *3.1.2.5 Other Mechanical Insulation*

Thermal insulation on mechanical equipment was observed and previously sampled in Room 4001. The laboratory analytical results of the thermal insulation samples collected indicated that this material does not contain asbestos.

Boiler tank insulation was observed in Rooms 1126 and 1138. MPL previously made several incisions throughout to investigate its composition, and it was visually identified as fiberglass, and therefore not suspected of containing asbestos.

#### *3.1.3 Flexible Duct Connector*

No flexible duct connectors were observed in the subject building.

#### *3.1.4 Heat Shield or Heat Shield Insulation*

No potential heat shield or heat shield insulation was observed in the subject building.

#### *3.1.5 Texture Finishes*

Ceiling texture coating was observed and previously sampled in Rooms 1101, 2002H, 3102, 4102, and 4100. The laboratory analytical results of the ceiling texture coat samples collected indicated that this material does not contain asbestos.

#### *3.1.6 Plaster*

No plaster was observed in the subject building.

#### *3.1.7 Drywall Joint Compound*

Drywall joint compound was observed throughout the subject building and previously sampled from Rooms 1002K, 1100, 2002H, 2026, 2149, 2474, 3033, 3244, 3142, 4130, 4172B, 4200F, 5004, and 5005. The laboratory analytical results of the drywall joint compound samples collected indicated that this material does not contain asbestos.

#### *3.1.8 Wallpaper*

Wallpaper (White) was observed and previously sampled in Room 3010. The laboratory analytical results of the wallpaper samples collected indicated that this material does not contain asbestos.

#### *3.1.9 Ceiling Tiles*

Several different types of ceiling tiles were observed and previously sampled within the subject building as follows:

- Suspended ceiling tiles (2'x4' Pinholes w/ Minor Texture) were observed and previously sampled in Room 4002. The laboratory analytical results indicate that this material does not contain asbestos.

- Suspended ceiling tiles (2'x4' Pinholes w/ Small Fissures) were observed and previously sampled in Room 4172. The laboratory analytical results indicate that this material does not contain asbestos.
- Suspended ceiling tiles (2'x4' Pinholes & Small Fissures) were observed and previously sampled in Room 1136. The laboratory analytical results indicate that this material does not contain asbestos.
- Suspended ceiling tiles (2'x4' Pinholes & Large Fissures) were observed and previously sampled in Room 1100A. The laboratory analytical results indicate that this material does not contain asbestos.
- Suspended ceiling tiles (2'x2'-Pinholes w/ Texture) were observed and previously sampled in Room 1130A and 1130C. The laboratory analytical results indicate that this material does not contain asbestos.
- Suspended ceiling tiles (2'x4' Pinholes w/ Small Fissures) were observed and previously sampled in Rooms 1123, 1128, and 1130. The laboratory analytical results indicate that this material does not contain asbestos.
- Suspended ceiling tiles (2'x4' – Pinholes & Small Fissures) were observed in Room 1107. The date stamp on the back of these tiles indicated that they were manufactured in 2012 and therefore, this material is not considered to contain asbestos.
- Suspended ceiling tiles (2'x4' – Pinholes & Small Fissures) were observed in Room 4200A. The date stamp on the back of these tiles indicated that they were manufactured in 2013 and therefore, this material is not considered to contain asbestos.
- Suspended ceiling tiles (2'x4' – Pinholes & Small Fissures) were observed in Room 1009. The date stamp on the back of these tiles indicated that they were manufactured in 1999 and therefore, this material is not considered to contain asbestos.
- Suspended ceiling tiles (2'x4' – Pinholes & Small Fissures) were observed in Room 3030. The date stamp on the back of these tiles indicated that they were manufactured in 2016 and therefore, this material is not considered to contain asbestos.
- Suspended ceiling tiles (2'x4' – Pinholes) were observed in Room 4225. The date stamp on the back of these tiles indicated that they were manufactured in 2007 and therefore, this material is not considered to contain asbestos.
- Suspended ceiling tiles (2'x4' – Mixed Pinholes) were observed in Room 3105T. The date stamp on the back of these tiles indicated that they were manufactured in 2017 and therefore, this material is not considered to contain asbestos.

- Suspended ceiling tiles (2'x4' – Pinholes) were observed in Room 1233. The date stamp on the back of these tiles indicated that they were manufactured in 2006 and therefore, this material is not considered to contain asbestos.

### 3.1.10 Vinyl Floor Tiles

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

- Previously identified vinyl floor tiles (12"x12" Beige w/ Grey Flakes) were observed in Rooms 1114, 1121, 1300, 1304, 1306, 1310, 1319, 1321, 1102B, 1136A, 1136B, 1136E, 1300A, 1326F, 1210, 2108, 2200, 2205, 2209, 2217, 2218, 2219, 2216, 2231, 2232, 2233, 2234, 2237, 2242, 2246, 2247, 2005A, 2007, 2008, 2009, 2012, 2043A, 2048, 2048A, 2052, 2053, 2054, 2055, 2103A, 2103A1, 2108A, 2219B, 2242A, 2242B, 2049A, 3108, 3112, 3113, 3116, 3117, 3127, 3128, 3129, 3130, 3131, 3132, 3135, 3136, 3137, 3138, 3139, 3145, 3148, 3149, 3150, 3152, 3153, 3154, 3155, 3156, 3157, 3158, 3159, 3163, 3164, 3165, 3167, 3201, 3202, 3205, 3213, 3211H, 3217, 3218, 3224, 3228, 3230, 3232, 3242, 3248, 3004B, 3131A, 3165A, 3200E, 3202C, 3202D, 3248A, 3248B, 3252, 4105, 4107, 4109, 4114, 4115, 4116, 4125, 4127, 4129, , 4150, 4151, 4152, 4156, 4158, 4159, 4160, 4161, 4162, 4164, 4168, 4176, 4200B, 4203, 4207, 4211, 4216, 4223, 4230, 4231, 4233, 4235, 4246, 4250, 4252, 4253, 4255, 4264, 4107A, 4211A, and 4217. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material **contains 7.2% Chrysotile asbestos**. MPL previously collected samples of visually similar vinyl floor tiles (12"x12" – Beige w/ Grey Flakes) were observed and sampled in Room 1136A. The laboratory analytical results of the samples collected indicated that this material **contains 1% Chrysotile asbestos**. This material is considered to be non-friable and material was observed to be in good condition, with the exception of select areas which were observed in fair condition. **Previously identified poor condition locations were observed to have been repaired during the 2022 Reassessment.**
- Vinyl floor tiles (12"x12" – Blue w/ Black Dots) were observed and previously sampled in Room 3492. The laboratory analytical results of the samples collected indicated that this material does not contain asbestos. The associated mastic (Black) was also determined not to contain asbestos.
- Vinyl floor tiles (12"x12" – Beige w/ Brown & White Flakes) were observed and previously sampled in Room 4172D. The laboratory analytical results of the samples collected indicated that this material does not contain asbestos. The associated mastic (Black) was also determined not to contain asbestos.
- Vinyl floor tiles (12"x12" – Salmon) were observed and previously sampled in Room 1020N. The laboratory analytical results of the samples collected indicated that this material does not contain asbestos.

- Vinyl floor tiles (12"x12" – Brown w/ Light & Dark Marble) were observed and previously sampled in Room 1020K. The laboratory analytical results of the samples collected indicated that this material does not contain asbestos.
- Vinyl floor tiles (12"x12" – Cream w/ Maroon Flakes) were observed and previously sampled in Room 1133. The laboratory analytical results of the samples collected indicated that this material does not contain asbestos.
- Vinyl floor tiles (12"x12" – Beige w/ Flakes) were observed and previously sampled in Room 3244. The laboratory analytical results of the samples collected indicated that this material does not contain asbestos. The associated mastic (Black) was also determined not to contain asbestos.
- Vinyl floor tiles (12"x12"-Dark Grey w/ Light Grey Flakes) were observed and previously sampled in room 1128B. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material does not contain asbestos. The associated mastic (Black) was also determined not to contain asbestos.
- Vinyl floor tiles (12"x12"-Beige w/ Brown Flakes) were observed and previously sampled in room 1128. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material does not contain asbestos.

### **3.1.11 Vinyl Sheet Floor**

Several different types of vinyl sheet flooring were observed and previously sampled within the subject building as follows:

- Vinyl sheet flooring (Beige Honeycomb Pattern) was observed and previously sampled in Room 1113. The laboratory analytical results of the vinyl sheet flooring samples collected indicate that this material does not contain asbestos. The associated mastic (Yellow) was also determined not to contain asbestos.
- Vinyl sheet flooring (Grey Marble Pattern) was observed and previously sampled in Room 3249A. The laboratory analytical results of the vinyl sheet flooring samples collected indicate that this material does not contain asbestos. The associated mastic (Yellow) was also determined not to contain asbestos.
- Vinyl sheet flooring (Blue) was observed and previously sampled in Room 3512. The laboratory analytical results of the vinyl sheet flooring samples collected indicate that this material does not contain asbestos. The associated mastic (Yellow) was also determined not to contain asbestos.
- Vinyl sheet flooring (White) was observed and previously sampled in Room 1005E. The laboratory analytical results of the vinyl sheet flooring samples collected indicate that this material does not contain asbestos.

- Vinyl sheet flooring (Beige & Grey Geometric Pattern) was observed and previously sampled in Room 1112. The laboratory analytical results of the vinyl sheet flooring samples collected indicate that this material does not contain asbestos.

#### 3.1.12 *Transite (Asbestos Cement)*

Previously identified asbestos-containing transit panels enclosed in fume hoods were observed in Rooms 1321, 2108, 2209, 2223, 2234, 2244, 2424, 2434, 2444, 2454, 2474, 2219B, 4105, 4112, 4130, 4132, 4139, 4145, 4157, 4200, 4205, 4215, 4222, 4229, 4233, 4235, 4215, 4246, 4248, 4250, 4251, 4254, 4257, 4133A, 4207A, 4214B, 4211A, 3116, 3127, 3128, 3129, 3137, 3138, 3140, 3148, 3150, 3153, 3155, 3156, 3157, 3163, 3174, 3209, 3220, and 3131A. This material is **known to contain asbestos** and is considered non-friable. This materials was observed to be enclosed within the equipment, therefore the condition could not be assessed.

#### 3.1.13 *Mastic*

Several different types of mastics were observed and previously sampled within the subject building as follows:

- Carpet mastic (Grey) was observed and previously sampled in Room 2005. The laboratory analytical results of the mastic samples collected indicate that this material contains **3% Chrysotile asbestos**. This material is considered non-friable and was enclosed under carpet.
- Carpet mastic (Grey) was observed and previously sampled in Room 1020. The laboratory analytical results of the mastic samples collected indicate that this material does not contain asbestos.
- Carpet mastic (Brown) was observed and previously sampled in Room 3245A. The laboratory analytical results of the mastic samples collected indicate that this material does not contain asbestos.
- Carpet mastic (Grey) was observed and previously sampled in Room 3011. The laboratory analytical results of the mastic samples collected indicate that this material does not contain asbestos.

#### 3.1.14 *Concrete Block Mortar*

Concrete block mortar (Grey) was observed and previously sampled in Room 1129. The laboratory analytical results of the concrete block mortar samples collected indicate that this material does not contain asbestos.

#### 3.1.15 *Fire Doors*

Fire doors were observed at various locations throughout the subject building. To avoid possible damage, no bulk samples of the internal door insulation materials were collected. 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 proves otherwise. All fire doors were observed to be in good condition.

### **3.1.16 Roofing Material**

To avoid damage and compromising the integrity of 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 proves otherwise.

#### **Recommendations**

- Asbestos-containing materials 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;
- Asbestos-containing materials 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 type of material and location, these materials should be scheduled for removal if there is potential risk of exposure to 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 renovation/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, approximate quantities (where applicable), and recommended actions;
- Prior to renovation/demolition of materials which are assumed to be asbestos-containing (suspect materials which were not sampled, i.e., roofing materials, fume hoods, and fire doors), 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 asbestos-containing materials 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 asbestos-containing material should be informed of its presence; and



- Given that asbestos containing materials (ACMs) have been identified and will likely remain in place, an Asbestos Management Plan (AMP) is therefore required and 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.

## 3.2 Lead

### Findings

#### 3.2.1 Paint Finishes

Various paint finishes previously identified to contain lead were observed throughout the subject building as follows,

**Table 2:**  
**Lead Laboratory Results**

Sample I.D.	Location	Material	Colour	Lead Concentration Weight by Conc. (%)
<b>Previously Identified Lead Paint Finishes</b>				
Pb-04	Room 1130	Door Paint	Light Yellow	0.0424
Pb-07	Room 1129	Door Paint	Dark Yellow	0.853
RGN-1-LBP-091407-04	Room 4001	Floor & Equipment Paint	Grey	0.28
RGN-1-LBP-091407-05	Room 4001	Metal Beam & Column Paint	Turquoise	0.17
RGN-1-LBP-091407-08	Room 2021A	Locker Paint	Yellow	5.9
RGN-1-LBP-091407-12	Room 1121	Fence Paint	Yellow	0.02

The paint finishes highlighted in blue in the above table were determined to contain low concentrations of lead which are less than or equal to 0.1%. These paint finishes were observed to be in good condition with the exception of select areas that were observed in 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% lead by weight. These paint finishes were observed to be in good condition with the exception of select areas that were observed in poor condition.

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 proves otherwise.

Laboratory certificate of analysis for the paint sample is also included in Appendix C.

#### 3.2.2 Battery Packs

Battery packs suspected of containing lead were identified in Rooms 1326A, 1326C, and 1471.

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.

### *Recommendations*

Paints identified to contain lead that are in poor condition must be immediately repaired and/or stabilized following a minimum Type 1/2 lead abatement procedures as per OMOL “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, the removal of the lead-based paint with the use of a chemical gel or paste, or a power tool equipped with a HEPA filter is considered a Type 1 operation. The removal of 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 lead materials that are removed must follow the Ministry of Labour and Environmental Abatement Council of Ontario Lead Guidelines.

Please refer to Appendix F – Hazardous Materials Checklist for material conditions, approximate 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 does not exceed 0.05 mg/m<sup>3</sup>. This can be achieved by:

- providing 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 Leachate Criteria (Schedule 4) of this regulation.

### **3.3 Mercury**

#### *Findings*

#### **3.3.1 Thermostat Switches**

MPL observed thermostat switches suspected of containing mercury were previously identified in Rooms 1127B, 1138, 3003A, 5500, 5501, 5502, and 5004.

#### **3.3.2 Fluorescent Light Tubes**

MPL identified fluorescent light fixtures throughout the surveyed area containing 2 to 4 fluorescent light tubes per fixture. Mercury is likely to be present in vapor form in the fluorescent light tubes.

#### **3.3.3 Pressure Gauges and Float Switches**

MPL identified pressure gauges containing liquid mercury in Rooms 1138, 3003, 5501, 5002 and 5004.

#### *Recommendations*

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

Precautions must be taken to prevent mercury liquid/vapours from becoming airborne during building demolition. Exposure to mercury 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 in accordance with 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 located throughout the structures. Free crystalline silica ( $\alpha$ -Quartz) may be a component in ceiling tiles and gypsum board. Silica (including free crystalline silica) may also be a component of concrete and brick surfaces noted in the building.

#### *Recommendations*

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

Precautions should be taken as required during major renovations and demolition projects on concrete (i.e. coring through concrete slabs, demolition of masonry, etc.) to ensure that workers' exposure levels to airborne silica does not exceed 0.05 mg/m<sup>3</sup>.

This can be achieved by:

- providing 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.

Demolition work that is likely to impact silica-containing materials should be carried out in accordance with 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**

The subject building is illuminated by LED and fluorescent lights. MPL assessed representative ballasts in the building, and these ballasts were identified as non-PCBs content.

#### **3.5.2 Transformers**

MPL did not observe any PCBs containing electrical transformers within the subject building. Transformers that could be assessed were observed to be dry-type and manufactured by Federal Pioneer, Westinghouse.

#### *Recommendations*

Since no PCB-containing equipment was observed or suspected to be present during the site survey, no further action is required.

### **3.6 Ozone Depleting Substances (ODSs) and Other Halocarbon**

#### *Findings*

A visual assessment for equipment potentially containing ODSs and other halocarbons was conducted. MPL observed equipment such as refrigerators, freezers, water fountains, water coolers, etc. which contain or are suspected of containing ODSs or other halocarbons. MPL observed most of the equipment throughout the lab spaces.

No other equipment containing ODSs or other halocarbons was observed in the subject building.

### *Recommendations*

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

Under the management of a licensed contractor, equipment containing R290, R508B, R519, R404A, R134A, R22, and R12 does 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*

MPL did not observe any electrical equipment suspected of containing radioactive materials in the subject building.

### *Recommendations*

Since no radioactive materials were observed or suspected to be present during the site survey, no further action is required.

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

### *Findings*

A visual survey of the subject building was conducted to determine if any USTs and ASTs were present. MPL observed above ground storage tanks in Rooms 1129C, 0507, and 4001 in good condition.

### *Recommendations*

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

Prior to any demolition in the buildings within the facility, all USTs and ASTs equipment must be decommissioned by a licensed contractor such that substances are contained and not released to the environment during decommissioning.

## **3.9 Mould**

### *Findings*

#### **3.9.1 Mould**

A visual survey of the subject building was conducted to determine if any mould was present. MPL did not observe any areas with obvious signs of visible mould growth.

### **3.9.2    *Water Damage***

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

#### ***Recommendations***

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

Water stained/damaged building materials observed throughout the subject building should be replaced/repared 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**



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# 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 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 (AMP) 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 asbestos containing materials 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 material 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., were not 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 CAELA accredited independent laboratory for analysis. Laboratory Certificate of Analysis are 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 Roger Guindon Hall as required under our scope of work. Areas requiring specialty training and/or personal protection (i.e. biohazardous labs/areas) were not assessed during the survey. These areas are assumed to have finishes as those in adjacent areas. 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 on the interior structure and finishes of the building. It did not consider current or past owner or occupant articles within the building (i.e. contents, furniture, etc.) and does 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 was examined as part of this survey. Due to concerns regarding certain historical analytical results, mainly in 2008 and prior years, confirmatory re-sampling was conducted for selected materials previously identified not to contain asbestos. However, building materials previously identified to be asbestos-containing were not re-sampled. The reports are listed as follows,

- Designated Substance Survey by Conestoga-Rovers & Associates (report dated January 2008, CRA Project No. 45870(66));
- Asbestos Sampling Memorandum by Conestoga-Rovers & Associates (report dated November 6<sup>th</sup>, 2007, CRA Project No.45870-70-M-2);

- Fume Hood and Associated Exhaust System Decontamination Summary by CM3 Environmental (report dated April 5, 2017, CM3 Project No. TLW-1164);
- Asbestos Abatement Oversight Report by EHS Environmental (report dated August 14, 2013, EHS Project No. 04-0033-13-026);
- Lead Based Paint Sampling Report by EHS Environmental (report dated May 29, 2013, EHS Project No. 04-0033-13-026);
- Project Specific Asbestos Sampling Report by EHS Environmental (report dated October 3, 2014, EHS Project No. 04-0033-14-046);
- Project Specific Asbestos Sampling Report by EHS Environmental (report dated January 21, 2014, EHS Project No. 04-0033-14-003);
- Project Specific Asbestos Sampling Report by EHS Environmental (report dated March 27, 2014, EHS Project No. 04-0033-14-012);
- Asbestos Assessment Report by EHS Environmental (report dated February 10, 2012, EHS Project No. 04-0033-12-004);
- Project Specific Asbestos Sampling Report by EHS Environmental (report dated May 6, 2019, EHS Project No. 04-0033-19-009);
- Fume Hood Duct Sampling by CM3 Environmental (report dated April 26, 2017, CM3 Project No. TLW 1343);
- Asbestos Sampling by CM3 Environmental (report dated February 15, 2017, CM3 Project No. TLW 1283);
- Mould Sampling by CM3 Environmental (report dated July 27, 2017, CM3 Project No. TLW 1473);
- Project Specific Designated Substance Survey by CM3 Environmental (report dated October 16, 2018, CM3 Project No. TLW 2173); and,
- Project Specific Designated Substances Survey by McIntosh Perry (report dated September 12, 2019, MPL Project No. OZ 1920305HZ).

## Asbestos

### *Background Information on Asbestos*

Asbestos is a generic name that has been given to a group of naturally occurring fibrous minerals. In the past, asbestos was commonly used as a component in building materials such as insulation, fireproofing and acoustic or decorative panels. Although there are many types of asbestos, the three main forms of commercial importance in Ontario are chrysotile, amosite and crocidolite.

An Asbestos-Containing Material (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 those materials that when dry 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 asbestos-containing materials are found. This is especially true where asbestos fibres may become airborne as a result of material ageing, physical damage, and 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 the identification of potential friable and non-friable asbestos-containing materials within 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 in accordance with 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 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, by 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.	Other material	Any size	3

Preliminary identification of the samples was made using polarized light microscopy (PLM), with confirmation of presence and type of asbestos made 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.

All bulk samples were analysed for asbestos content by Paracel Laboratories Ltd., an independent laboratory. Paracel is a fully accredited facility for asbestos analysis and is accredited under National Voluntary Laboratory Accreditation (NVLAP Lab Codes 200812-0 and 200863-0). Paracel is accredited for asbestos bulk analysis in



PLM in Ottawa and Mississauga, respectively. For the Scope of Accreditation under the (CALA) Membership Number 1262, Paracel is accredited for asbestos in air samples by PCM.

Vinyl floors tiles were analyzed using the phase light microscopy (PLM) method of analysis. However, given the composition of vinyl floor products, the PLM analysis method may be prone to yielding false negative analytical results. Therefore, prior to removal or replacement, vinyl floor products previously identified to be 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 a combination of their condition and accessibility.

### *Evaluation of ACMs Based on Condition*

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

- Good – Material shows no signs of damage and/or is encapsulated. Asbestos-containing material could remain in place until eventual building demolition or major renovation.
- Fair – Material shows signs of minor damage (<5% damage) or otherwise near the end of useful life. This includes minor shrinking, cracking, delamination and/ or other damage. 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 was also applied to other hazardous materials where applicable. 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 shelf life of paint and to 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 haemoglobin 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.

Currently in Ontario, there is no regulatory limit that determines what concentration of lead 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 the importation or sale of products within Canada. Therefore, this is not to be misconstrued as a limit established to define a lead-containing material or a limit 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 the purpose of 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 is known to have been used in solder on copper plumbing fixtures, in lead conduit pipes, in lead-calcium battery plates, ammunition, and in nuclear and X-ray shielding devices. However, these materials were not sampled during this investigation, but were noted where applicable.

To verify lead content in paints, representative bulk samples of paint and finishes suspected of containing lead were collected. Bulk samples were scraped down to the building base structure, with all possible layer's present, placed in sealed plastic bags and labeled; and then submitted to an independent laboratory for analysis. Samples were treated with a dilute nitric acid sample digestion prior to filtration. 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 poisoning in humans through the inhalation of vapours, ingestion of 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 demolition of the building. 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 products such as 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 product's useful life. Improper disposal of these mercury products poses a health and environmental risk to everyone. In addition, the disposal 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 of mercury 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 in the phosphor coating 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 therefore 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, then the facility must treat the waste as hazardous waste. 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 located throughout the structures. Free crystalline silica ( $\alpha$ -Quartz) may be a component in ceiling tiles and gypsum board. 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 dielectric insulating fluid in electrical equipment such as transformers and capacitors, and in the fluorescent and HID lamp ballasts. The production of PCBs in the 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 a designated substance 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 period of 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 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. Production of ODSs in the form of hydrochlorofluorocarbons (HCFCs) and chlorofluorocarbons (CFCs) ceased in Canada in 1993 as a result of their ozone-depleting characteristics. Importation of CFCs into Canada ceased in 1997 and total ban was placed on their use since 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

There are two types of smoke detectors commonly found in building (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. The use of sealed radioactive material sources in fire detection systems is still permitted and regulated by the Canadian Nuclear Safety Commission (CNSC) 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 occurred. They will generally not occur if materials are kept dry.

MPL conducted a general visual assessment for any obvious 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 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 present in stable form within poly vinyl-chloride (PVC) piping and conduits and as a component of interior finishes. Such building materials are not considered to be hazardous in their current matrix/composition.

## Acrylonitrile

Acrylonitrile or ACN (also known as vinyl cyanide) is an explosive, flammable liquid used in the manufacture of 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 and are not 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 the production of styrene, phenol, cyclohexane, and other organic chemicals, and in the manufacture of detergents, pesticides, solvents, and paint removers. It is also found in gasoline. Benzene may be present in stable form in roofing materials, paints and adhesives located throughout the subject building. Such building materials are not considered to be hazardous in their current matrix/composition.

## Coke Oven Emissions

Coke oven emission is benzene soluble fraction of 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 used generally as a fumigant and sterilizing agent for medical equipment. It is used generally as a fumigant and sterilizing agent for medical equipment.

## Isocyanates

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

In order to reduce the potential for exposure to workers or occupants, any suspect hazardous building material(s) that are not detailed within this survey due to inaccessibility and/or are discovered during renovation/demolition activities, must be properly 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: Diana Banakh

Client PO:  
Project: Z1920014HZ (RGN)  
Custody:

Report Date: 21-Nov-2019  
Order Date: 15-Nov-2019

**Order #: 1946583**

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

Paracel ID	Client ID
1946583-01	BS 1.1 Drywall
1946583-02	BS 1.2 Drywall
1946583-03	BS 1.3 Drywall
1946583-04	BS 1.4 Drywall
1946583-05	BS 1.5 Drywall
1946583-06	BS 1.6 Drywall
1946583-07	BS 1.7 Drywall
1946583-08	BS 1.8 Drywall
1946583-09	BS 1.9 Drywall
1946583-10	BS 1.10 Drywall
1946583-11	BS 1.11 Drywall
1946583-12	BS 1.12 Drywall
1946583-13	BS 1.13 Drywall
1946583-14	BS 1.14 Drywall
1946583-15	BS 2.1 Ceiling Texture Coat
1946583-16	BS 2.2 Ceiling Texture Coat
1946583-17	BS 2.3 Ceiling Texture Coat
1946583-18	BS 2.4 Ceiling Texture Coat
1946583-19	BS 2.5 Ceiling Texture Coat
1946583-20	BS 3.1 VSF Beige Honey Comb
1946583-21	BS 3.2 VSF Beige Honey Comb
1946583-22	BS 3.3 VSF Beige Honey Comb
1946583-23.1	BS 4.1 VSF Grey Marble
1946583-23.2	BS 4.1 VSF Grey Marble
1946583-24.1	BS 4.2 VSF Grey Marble
1946583-24.2	BS 4.2 VSF Grey Marble

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: 21-Nov-2019

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

Order Date: 15-Nov-2019

**Client PO:**

**Project Description:** Z1920014HZ (RGN)

1946583-25.1	BS 4.3 VSF Grey Marble
1946583-25.2	BS 4.3 VSF Grey Marble
1946583-26.1	BS 5.1 VSF Blue
1946583-26.2	BS 5.1 VSF Blue
1946583-27.1	BS 5.2 VSF Blue
1946583-27.2	BS 5.2 VSF Blue
1946583-28.1	BS 5.3 VSF Blue
1946583-28.2	BS 5.3 VSF Blue
1946583-29.1	BS 6.1 VFT Blue and Black Dots
1946583-29.2	BS 6.1 VFT Blue and Black Dots
1946583-30.1	BS 6.2 VFT Blue and Black Dots
1946583-30.2	BS 6.2 VFT Blue and Black Dots
1946583-31.1	BS 6.3 VFT Blue and Black Dots
1946583-31.2	BS 6.3 VFT Blue and Black Dots
1946583-32	BS 7.1 SCT Pinholes with Minor Texture
1946583-33	BS 7.2 SCT Pinholes with Minor Texture
1946583-34	BS 7.3 SCT Pinholes with Minor Texture
1946583-35	BS 8.1 SCT Pinholes with Small Fissures
1946583-36	BS 8.2 SCT Pinholes with Small Fissures
1946583-37	BS 8.3 SCT Pinholes with Small Fissures
1946583-38	BS 9.1 Carpet Mastic - 3245A
1946583-39	BS 9.2 Carpet Mastic - 3245A
1946583-40	BS 9.3 Carpet Mastic - 3245A
1946583-41	BS 10.1 Carpet Mastic - 3011
1946583-42	BS 10.2 Carpet Mastic - 3011
1946583-43	BS 10.3 Carpet Mastic - 3011
1946583-44	BS 11.1 Wallpaper White
1946583-45	BS 11.2 Wallpaper White
1946583-46	BS 11.3 Wallpaper White
1946583-47	BS 12.1 Pipe Elbow Parging Cement
1946583-48	BS 12.2 Pipe Elbow Parging Cement
1946583-49	BS 12.3 Pipe Elbow Parging Cement
1946583-50	BS 13.1 Pipe Elbow Dom. Cold Water
1946583-51	BS 13.2 Pipe Elbow Dom. Cold Water
1946583-52	BS 13.3 Pipe Elbow Dom. Cold Water
1946583-53	BS 14.1 Pipe Elbow - Reject Water
1946583-54	BS 14.2 Pipe Elbow - Reject Water
1946583-55	BS 14.3 Pipe Elbow - Reject Water



Certificate of Analysis

Report Date: 21-Nov-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 15-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN)

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1946583-01	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.1 Drywall	
					Non-Fibers	100
1946583-02	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.2 Drywall	
					Non-Fibers	100
1946583-03	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.3 Drywall	
					Non-Fibers	100
1946583-04	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.4 Drywall	
					Non-Fibers	100
1946583-05	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.5 Drywall	
					Non-Fibers	100
1946583-06	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.6 Drywall	
					Non-Fibers	100
1946583-07	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.7 Drywall	
					Non-Fibers	100
1946583-08	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.8 Drywall	
					Non-Fibers	100
1946583-09	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.9 Drywall	
					Non-Fibers	100
1946583-10	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.10 Drywall	
					Non-Fibers	100
1946583-11	09-Sep-19	Grey	Drywall	No	Client ID: BS 1.11 Drywall	
					Cellulose	5
					Non-Fibers	95

Certificate of Analysis

Report Date: 21-Nov-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 15-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN)

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1946583-12	09-Sep-19	Grey	Drywall	No	Client ID: BS 1.12 Drywall	
					Cellulose	5
					Non-Fibers	95
1946583-13	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.13 Drywall	
					Non-Fibers	100
1946583-14	09-Sep-19	Off-white	Drywall Joint Compound	No	Client ID: BS 1.14 Drywall	
					Non-Fibers	100
1946583-15	09-Sep-19	Off-white	Texture Coat	No	Client ID: BS 2.1 Ceiling Texture Coat	
					Non-Fibers	100
1946583-16	09-Sep-19	Off-white	Texture Coat	No	Client ID: BS 2.2 Ceiling Texture Coat	
					Non-Fibers	100
1946583-17	09-Sep-19	Off-white	Texture Coat	No	Client ID: BS 2.3 Ceiling Texture Coat	
					Non-Fibers	100
1946583-18	09-Sep-19	Off-white	Texture Coat	No	Client ID: BS 2.4 Ceiling Texture Coat	
					Non-Fibers	100
1946583-19	09-Sep-19	Off-white	Texture Coat	No	Client ID: BS 2.5 Ceiling Texture Coat	
					Non-Fibers	100
1946583-20	09-Sep-19	Beige/Yellow	Vinyl Sheet Flooring/Mastic	No	Client ID: BS 3.1 VSF Beige Honey Comb	
						[Z-01]
					Cellulose	15
					MMVF	5
1946583-21	09-Sep-19	Beige/Yellow	Vinyl Sheet Flooring/Mastic	No		
					Cellulose	15
					MMVF	5
					Non-Fibers	80

Certificate of Analysis

Report Date: 21-Nov-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 15-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN)

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1946583-22	09-Sep-19	Beige/Yellow	Vinyl Sheet Flooring/Mastic	No	Client ID: BS 3.3 VSF Beige Honey Comb	[Z-01]
					Cellulose	15
					MMVF	5
					Non-Fibers	80
1946583-23.1	09-Sep-19	Grey	Vinyl Floor Tile	No	Client ID: BS 4.1 VSF Grey Marble	
					Non-Fibers	100
1946583-23.2	09-Sep-19	Yellow	Mastic	No	Client ID: BS 4.1 VSF Grey Marble	
					Non-Fibers	100
1946583-24.1	09-Sep-19	Grey	Vinyl Floor Tile	No	Client ID: BS 4.2 VSF Grey Marble	
					Non-Fibers	100
1946583-24.2	09-Sep-19	Yellow	Mastic	No	Client ID: BS 4.2 VSF Grey Marble	
					Non-Fibers	100
1946583-25.1	09-Sep-19	Grey	Vinyl Floor Tile	No	Client ID: BS 4.3 VSF Grey Marble	
					Non-Fibers	100
1946583-25.2	09-Sep-19	Yellow	Mastic	No	Client ID: BS 4.3 VSF Grey Marble	
					Non-Fibers	100
1946583-26.1	09-Sep-19	Blue	Vinyl Floor Tile	No	Client ID: BS 5.1 VSF Blue	
					Non-Fibers	100
1946583-26.2	09-Sep-19	Yellow	Mastic	No	Client ID: BS 5.1 VSF Blue	
					Non-Fibers	100
1946583-27.1	09-Sep-19	Blue	Vinyl Floor Tile	No	Client ID: BS 5.2 VSF Blue	
					Non-Fibers	100
1946583-27.2	09-Sep-19	Yellow	Mastic	No	Client ID: BS 5.2 VSF Blue	
					Non-Fibers	100

Certificate of Analysis

Report Date: 21-Nov-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 15-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN)

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1946583-28.1	09-Sep-19	Blue	Vinyl Floor Tile	No	Client ID: BS 5.3 VSF Blue	
					Non-Fibers	100
1946583-28.2	09-Sep-19	Yellow	Mastic	No	Client ID: BS 5.3 VSF Blue	
					Non-Fibers	100
1946583-29.1	09-Sep-19	Blue	Vinyl Floor Tile	No	Client ID: BS 6.1 VFT Blue and Black Dots	
					Non-Fibers	100
1946583-29.2	09-Sep-19	Black	Mastic	No	Client ID: BS 6.1 VFT Blue and Black Dots	
					Non-Fibers	100
1946583-30.1	09-Sep-19	Blue	Vinyl Floor Tile	No	Client ID: BS 6.2 VFT Blue and Black Dots	
					Non-Fibers	100
1946583-30.2	09-Sep-19	Black	Mastic	No	Client ID: BS 6.2 VFT Blue and Black Dots	
					Non-Fibers	100
1946583-31.1	09-Sep-19	Blue	Vinyl Floor Tile	No	Client ID: BS 6.3 VFT Blue and Black Dots	
					Non-Fibers	100
1946583-31.2	09-Sep-19	Black	Mastic	No	Client ID: BS 6.3 VFT Blue and Black Dots	
					Non-Fibers	100
1946583-32	09-Sep-19	Grey	Ceiling Tile	No	Client ID: BS 7.1 SCT Pinholes with Minor Texture	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
1946583-33	09-Sep-19	Grey	Ceiling Tile	No	Client ID: BS 7.2 SCT Pinholes with Minor Texture	
					Cellulose	40
					MMVF	30
					Non-Fibers	30

Certificate of Analysis

Report Date: 21-Nov-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 15-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN)

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1946583-34	09-Sep-19	Grey	Ceiling Tile	No	<b>Client ID: BS 7.3 SCT Pinholes with Minor Texture</b>	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
1946583-35	09-Sep-19	Grey	Ceiling Tile	No	<b>Client ID: BS 8.1 SCT Pinholes with Small Fissures</b>	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
1946583-36	09-Sep-19	Grey	Ceiling Tile	No	<b>Client ID: BS 8.2 SCT Pinholes with Small Fissures</b>	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
1946583-37	09-Sep-19	Grey	Ceiling Tile	No	<b>Client ID: BS 8.3 SCT Pinholes with Small Fissures</b>	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
1946583-38	09-Sep-19	Brown	Mastic	No	<b>Client ID: BS 9.1 Carpet Mastic - 3245A</b>	
					Non-Fibers	100
1946583-39	09-Sep-19	Brown	Mastic	No	<b>Client ID: BS 9.2 Carpet Mastic - 3245A</b>	
					Non-Fibers	100
1946583-40	09-Sep-19	Brown	Mastic	No	<b>Client ID: BS 9.3 Carpet Mastic - 3245A</b>	
					Non-Fibers	100
1946583-41	09-Sep-19	Grey	Mastic	No	<b>Client ID: BS 10.1 Carpet Mastic - 3011</b>	
					Non-Fibers	95
					Other fibers	5

Certificate of Analysis

Report Date: 21-Nov-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 15-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN)

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1946583-42	09-Sep-19	Grey	Mastic	No	Client ID: BS 10.2 Carpet Mastic - 3011	
					Non-Fibers	95
					Other fibers	5
1946583-43	09-Sep-19	Grey	Mastic	No	Client ID: BS 10.3 Carpet Mastic - 3011	
					Non-Fibers	95
					Other fibers	5
1946583-44	09-Sep-19	White	Wallpaper	No	Client ID: BS 11.1 Wallpaper White	
					Cellulose	60
					Non-Fibers	40
1946583-45	09-Sep-19	White	Wallpaper	No	Client ID: BS 11.2 Wallpaper White	
					Cellulose	60
					Non-Fibers	40
1946583-46	09-Sep-19	White	Wallpaper	No	Client ID: BS 11.3 Wallpaper White	
					Cellulose	60
					Non-Fibers	40
1946583-47	09-Sep-19	Grey	Parging	No	Client ID: BS 12.1 Pipe Elbow Parging Cement	
					[Z-01a]	
					Cellulose	15
1946583-48	09-Sep-19	Grey	Parging	No	Client ID: BS 12.2 Pipe Elbow Parging Cement	
					[Z-01a]	
					Cellulose	15
1946583-49	09-Sep-19	Grey	Parging	No	Client ID: BS 12.3 Pipe Elbow Parging Cement	
					[Z-01a]	
					Cellulose	15
1946583-50	09-Sep-19	Grey	Pipe Elbow	No	Client ID: BS 13.1 Pipe Elbow Dom. Cold Water	
					[Z-01a]	
					Cellulose	15
					Non-Fibers	85

**Certificate of Analysis**

Report Date: 21-Nov-2019

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

Order Date: 15-Nov-2019

**Client PO:**
**Project Description:** Z1920014HZ (RGN)

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1946583-51	09-Sep-19	Grey	Pipe Elbow	No	<b>Client ID: BS 13.2 Pipe Elbow Dom. Cold Water</b>	
						[Z-01a]
					Cellulose	15
					Non-Fibers	85
1946583-52	09-Sep-19	Grey	Pipe Elbow	No	<b>Client ID: BS 13.3 Pipe Elbow Dom. Cold Water</b>	
						[Z-01a]
					Cellulose	15
					Non-Fibers	85
1946583-53	09-Sep-19	Grey	Pipe Elbow	No	<b>Client ID: BS 14.1 Pipe Elbow - Reject Water</b>	
						[Z-01a]
					Cellulose	15
					Non-Fibers	85
1946583-54	09-Sep-19	Grey	Pipe Elbow	No	<b>Client ID: BS 14.2 Pipe Elbow - Reject Water</b>	
						[Z-01a]
					Cellulose	15
					Non-Fibers	85
1946583-55	09-Sep-19	Grey	Pipe Elbow	No	<b>Client ID: BS 14.3 Pipe Elbow - Reject Water</b>	
						[Z-01a]
					Cellulose	15
					Non-Fibers	85

\* MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool

**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		20-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

Certificate of Analysis

Report Date: 21-Nov-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 15-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN)

**Qualifier Notes**

Sample Qualifiers :

Z-01: Inseparable layers.

Z-01a: Sample contains vermiculite.

**Work Order Revisions | Comments**

None





Paracel ID: 1946583



①

Head Office  
300-2319 St. Laurent Blvd.  
Ottawa, Ontario K1G 4J8  
p: 1-800-749-1947  
e: paracel@paracellabs.com

Chain of Custody  
(Lab Use Only)

Client Name: McIntosh Perry

Project Reference: Z1920014HZ (RGN)

Contact Name: Diana Banakh

Quote #: 194651

Address: 6240 Highway 7, Suite 200, Concord, Ontario L4K 2A3

PO #:

Email Address: d.banakh@mcintoshperry.com

Telephone: 905-856-5200

Turnaround Time:

☐ Immediate ☐ 1 Day  
☐ 4 Hour ☐ 2 Day  
☐ 8 Hour ☒ Regular

Date Required:

## ASBESTOS &amp; MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

Parcel Order Number:

1946583

Asbestos - Bulk

Sample ID		Sampling Date	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Analyzed	Positive Stop?
BS1.1-1.14	Drywall	September 9th, 2019	N/A	PLM		X
BS2.1-2.5	Ceiling Texture Coat	September 9th, 2019	N/A	PLM		X
BS3.1-3.3	VSF Beige Honey Comb	September 9th, 2019	N/A	PLM		X
BS4.1-4.3	VSF Grey Marble	September 9th, 2019	N/A	PLM		X
BS5.1-5.3	VSF Blue	September 9th, 2019	N/A	PLM		X
BS6.1-6.3	VFT blue with black dots	September 9th, 2019	N/A	PLM		X
BS7.1-7.3	SCT Pinholes with minor texture	September 9th, 2019	N/A	PLM		X
BS8.1-8.3	SCT Pinholes with small fissures	September 9th, 2019	N/A	PLM		X
BS9.1-9.3	Carpet Mastic - 3245A	September 9th, 2019	N/A	PLM		X
BS10.1-10.3	Carpet Mastic - 3011	September 9th, 2019	N/A	PLM		X
BS11.1-11.3	Wallpaper white	September 9th, 2019	N/A	PLM		X
BS12.1-12.3	Pipe Elbow Parging Cement	September 9th, 2019	N/A	PLM		X
BS13.1-13.3	Pipe Elbow Dom. Cold Water	September 9th, 2019	N/A	PLM		X
BS14.1-14.3	Pipe Elbow - Reject Water	September 9th, 2019	N/A	PLM		X

\* If left blank, Paracel will analyze all materials identified during analysis

\*\* If left blank, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116

Comments: 67 samples

Method of Delivery:

United

Relinquished By (Sign):

Received at Depot:

Received at Lab:

Cynthia G.

Verified By:

Cynthia G.

Relinquished By (Print): Diana Banakh

Date/Time:

Date/Time:

Nov 15/2019 15:20

Date/Time:

Nov 18/2019 8:50

Chain of Custody (Asbestos) - Rev. 2.0 Nov. 2017

## Certificate of Analysis

### McIntosh Perry Limited (Concord)

6240 Hwy 7, Suite 200  
Woodbridge, ON L4H 0R2  
Attn: Diana Banakh

Client PO:

Project: Z1920014HZ (RGN - BATCH 2)

Custody:

Report Date: 16-Dec-2019

Order Date: 18-Nov-2019

Revised Report

**Order #: 1947121**

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

Paracel ID	Client ID
1947121-01	BS 16.1 VSF - White - 1005E
1947121-02	BS 16.2 VSF - White - 1005E
1947121-03	BS 16.3 VSF - White - 1005E
1947121-04	BS 17.1 Carpet Mastic - Grey - 1020
1947121-05	BS 17.2 Carpet Mastic - Grey - 1020
1947121-06	BS 17.3 Carpet Mastic - Grey - 1020
1947121-07	BS 18.1 VFT - 12"x12" Brown w/ Light & Dark Marble 1020k
1947121-08	BS 18.2 VFT - 12"x12" Brown w/ Light & Dark Marble 1020k
1947121-09	BS 18.3 VFT - 12"x12" Brown w/ Light & Dark Marble 1020k
1947121-10	BS 19.1 VFT - 12"x12" Salmon - 1020N
1947121-11	BS 19.2 VFT - 12"x12" Salmon - 1020N
1947121-12	BS 19.3 VFT - 12"x12" Salmon - 1020N
1947121-13	BS 20.1 SCT - 2x4 Pinholes & Large Fissures - 1100A
1947121-14	BS 20.2 SCT - 2x4 Pinholes & Large Fissures - 1100A
1947121-15	BS 20.3 SCT - 2x4 Pinholes & Large Fissures - 1100A
1947121-16	BS 21.1 VSF - Beige & Grey Geometric - 1112
1947121-17	BS 21.2 VSF - Beige & Grey Geometric - 1112
1947121-18	BS 21.3 VSF - Beige & Grey Geometric - 1112
1947121-19	BS 22.1 VFT - 12"x12" Cream w/ Maroon Flakes - 1133
1947121-20	BS 22.2 VFT - 12"x12" Cream w/ Maroon Flakes - 1133
1947121-21	BS 22.3 VFT - 12"x12" Cream w/ Maroon Flakes - 1133
1947121-22	BS 23.1 SCT - 2x4 Pinholes & Small Fissures - 1136
1947121-23	BS 23.2 SCT - 2x4 Pinholes & Small Fissures - 1136
1947121-24	BS 23.3 SCT - 2x4 Pinholes & Small Fissures - 1136
1947121-25	BS 24.1 VFT - 12"x12" Beige w/ Grey Flakes - 1136A
1947121-26	BS 24.2 VFT - 12"x12" Beige w/ Grey Flakes - 1136A

Approved By:



Emma Diaz

Senior Analyst

## Certificate of Analysis

Report Date: 16-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 18-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN - BATCH 2)

1947121-27	BS 24.3 VFT - 12"x12" Beige w/ Grey Flakes - 1136A
1947121-28	BS 25.1 Parging Cement Elbow - Supply Line - 1138
1947121-29	BS 25.2 Parging Cement Elbow - Supply Line - 1138
1947121-30	BS 25.3 Parging Cement Elbow - Supply Line - 1138
1947121-31	BS 26.1 Carpet Mastic - Grey - 2005
1947121-32	BS 26.2 Carpet Mastic - Grey - 2005
1947121-33	BS 26.3 Carpet Mastic - Grey - 2005

Certificate of Analysis

Report Date: 16-Dec-2019

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

Order Date: 18-Nov-2019

Client PO:

Project Description: **Z1920014HZ (RGN - BATCH 2)**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1947121-01	15-Nov-19	White	Vinyl Sheet Flooring	No	Client ID: BS 16.1 VSF - White - 1005E	
					Non-Fibers	100
1947121-02	15-Nov-19	White	Vinyl Sheet Flooring	No	Client ID: BS 16.2 VSF - White - 1005E	
					Non-Fibers	100
1947121-03	15-Nov-19	White	Vinyl Sheet Flooring	No	Client ID: BS 16.3 VSF - White - 1005E	
					Non-Fibers	100
1947121-04	15-Nov-19	Grey	Mastic	No	Client ID: BS 17.1 Carpet Mastic - Grey - 1020	
					MMVF	1
					Non-Fibers	99
1947121-05	15-Nov-19	Grey	Mastic	No	Client ID: BS 17.2 Carpet Mastic - Grey - 1020	
					Non-Fibers	100
1947121-06	15-Nov-19	Grey	Mastic	No	Client ID: BS 17.3 Carpet Mastic - Grey - 1020	
					MMVF	1
					Non-Fibers	99
1947121-07	15-Nov-19	Brown	Vinyl Floor Tile	No	Client ID: BS 18.1 VFT - 12"x12" Brown w/ Light & Dark Marble 1020k	
					Non-Fibers	100
1947121-08	15-Nov-19	Brown	Vinyl Floor Tile	No	Client ID: BS 18.2 VFT - 12"x12" Brown w/ Light & Dark Marble 1020k	
					Non-Fibers	100
1947121-09	15-Nov-19	Brown	Vinyl Floor Tile	No	Client ID: BS 18.3 VFT - 12"x12" Brown w/ Light & Dark Marble 1020k	
					Non-Fibers	100
1947121-10	15-Nov-19	Salmon	Vinyl Floor Tile	No	Client ID: BS 19.1 VFT - 12"x12" Salmon - 1020N	
					Non-Fibers	100
1947121-11	15-Nov-19	Salmon	Vinyl Floor Tile	No	Client ID: BS 19.2 VFT - 12"x12" Salmon - 1020N	
					Non-Fibers	100

Certificate of Analysis

Report Date: 16-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 18-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN - BATCH 2)

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1947121-12	15-Nov-19	Salmon	Vinyl Floor Tile	No	<b>Client ID: BS 19.3 VFT - 12"x12" Salmon - 1020N</b>	
					Non-Fibers	100
1947121-13	15-Nov-19	Grey	Ceiling Tile	No	<b>Client ID: BS 20.1 SCT - 2x4 Pinholes &amp; Large Fissures - 1100A</b>	
					Cellulose	30
					MMVF	40
					Non-Fibers	30
1947121-14	15-Nov-19	Grey	Ceiling Tile	No	<b>Client ID: BS 20.2 SCT - 2x4 Pinholes &amp; Large Fissures - 1100A</b>	
					Cellulose	30
					MMVF	40
					Non-Fibers	30
1947121-15	15-Nov-19	Grey	Ceiling Tile	No	<b>Client ID: BS 20.3 SCT - 2x4 Pinholes &amp; Large Fissures - 1100A</b>	
					Cellulose	30
					MMVF	40
					Non-Fibers	30
1947121-16	15-Nov-19	Beige/Grey	Vinyl Sheet Flooring	No	<b>Client ID: BS 21.1 VSF - Beige &amp; Grey Geometric - 1112</b>	
					Cellulose	10
					MMVF	10
					Non-Fibers	80
1947121-17	15-Nov-19	Beige/Grey	Vinyl Sheet Flooring	No	<b>Client ID: BS 21.2 VSF - Beige &amp; Grey Geometric - 1112</b>	
					Cellulose	10
					MMVF	10
					Non-Fibers	80
1947121-18	15-Nov-19	Beige/Grey	Vinyl Sheet Flooring	No	<b>Client ID: BS 21.3 VSF - Beige &amp; Grey Geometric - 1112</b>	
					Cellulose	10
					MMVF	10
					Non-Fibers	80
1947121-19	15-Nov-19	Cream/Maroon	Vinyl Floor Tile	No	<b>Client ID: BS 22.1 VFT - 12"x12" Cream w/ Maroon Flakes - 1133</b>	
					Non-Fibers	100

Certificate of Analysis

Report Date: 16-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 18-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN - BATCH 2)

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1947121-20	15-Nov-19	Cream/Maroon	Vinyl Floor Tile	No	Client ID: BS 22.2 VFT - 12"x12" Cream w/ Maroon Flakes - 1133	
					Non-Fibers	100
1947121-21	15-Nov-19	Cream/Maroon	Vinyl Floor Tile	No	Client ID: BS 22.3 VFT - 12"x12" Cream w/ Maroon Flakes - 1133	
					Non-Fibers	100
1947121-22	15-Nov-19	Grey	Ceiling Tile	No	Client ID: BS 23.1 SCT - 2x4 Pinholes & Small Fissures - 1136	
					Cellulose	30
					MMVF	40
					Non-Fibers	30
1947121-23	15-Nov-19	Grey	Ceiling Tile	No	Client ID: BS 23.2 SCT - 2x4 Pinholes & Small Fissures - 1136	
					Cellulose	30
					MMVF	40
					Non-Fibers	30
1947121-24	15-Nov-19	Grey	Ceiling Tile	No	Client ID: BS 23.3 SCT - 2x4 Pinholes & Small Fissures - 1136	
					Cellulose	30
					MMVF	40
					Non-Fibers	30
1947121-25	15-Nov-19	Beige/Grey	Vinyl Floor Tile	Yes	Client ID: BS 24.1 VFT - 12"x12" Beige w/ Grey Flakes - 1136A	
					Chrysotile	1
					Non-Fibers	99
1947121-26	15-Nov-19				Client ID: BS 24.2 VFT - 12"x12" Beige w/ Grey Flakes - 1136A	
					not analyzed	
1947121-27	15-Nov-19				Client ID: BS 24.3 VFT - 12"x12" Beige w/ Grey Flakes - 1136A	
					not analyzed	
1947121-28	15-Nov-19	Grey	Parging Cement Elbow	No	Client ID: BS 25.1 Parging Cement Elbow - Supply Line - 1138	
					Cellulose	10
					MMVF	5
					Non-Fibers	85

Certificate of Analysis

Report Date: 16-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 18-Nov-2019

Client PO:

Project Description: Z1920014HZ (RGN - BATCH 2)

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1947121-29	15-Nov-19	Grey	Parging Cement Elbow	No	<b>Client ID: BS 25.2 Parging Cement Elbow - Supply Line - 1138</b>	
					Cellulose	10
					MMVF	5
					Non-Fibers	85
1947121-30	15-Nov-19	White	Parging Cement Elbow	No	<b>Client ID: BS 25.3 Parging Cement Elbow - Supply Line - 1138</b>	
					MMVF	30
					Non-Fibers	70
1947121-31	15-Nov-19	Grey	Mastic	No	<b>Client ID: BS 26.1 Carpet Mastic - Grey - 2005</b>	
					Non-Fibers	100
1947121-32	15-Nov-19	Grey	Mastic	Yes	<b>Client ID: BS 26.2 Carpet Mastic - Grey - 2005</b>	
					<b>Chrysotile</b>	3
					Non-Fibers	97
1947121-33	15-Nov-19				<b>Client ID: BS 26.3 Carpet Mastic - Grey - 2005</b>	
					not analyzed	

\* MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool

\*\* Analytes in bold indicate asbestos mineral content.

**Analysis Summary Table**

Analysis	Method Reference/Description	Lab Location	Analysis Date
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	3 - Calgary	21-Nov-19

Calgary Lab: 1423 45 Ave NE, Unit F Calgary, AB, T2E 2P3

**Work Order Revisions | Comments**

REVISION-1: This report includes updated Sample IDs, as per client.



Paracel ID: 1947121



Head Office  
300-2319 St. Laurent Blvd.  
Ottawa, Ontario K1G 4J8  
☎ 1-800-749-1947  
✉ paracel@paracellabs.com

Chain of Custody  
(Lab Use Only)

Client Name: McIntosh Perry

Contact Name: Diana Banakh

Address: 6240 Highway 7, Suite 200, Concord, Ontario L4K 2A3

Telephone: 905-856-5200

Project Reference: Z1920014HZ (RGN - BATCH 2)

Quote #: 19-651

PO #:

Email Address: d.banakh@mcintoshperry.com

Turnaround Time:

☐ Immediate ☐ 1 Day  
☐ 4 Hour 2 Day  
☐ 8 Hour x Regular

Date Required:

### ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

Paracel Order Number:

1947121

Asbestos - Bulk

Sample ID	Sampling Date	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Analyzed	Positive Stop?
BS 15.1-15.3 VSF - White - 1005E		N/A	PLM		
BS 16.1-16.3 Carpet Mastie - Grey - 1020		N/A	PLM		X
BS 17.1-17.3 VFT - 12"x12" Brown w/ Light & Dark Marble - 1020K		N/A	PLM		X
BS 18.1-18.3 VFT - 12"x12" Salmon - 1020N		N/A	PLM		X
BS 19.1-19.3 SCT - 2x4 Pinholes & Large Fissures - 1100A		N/A	PLM		X
BS 20.1-20.3 VSF - Beige & Grey Geometric - 1112		N/A	PLM		X
BS 21.2-21.3 VFT - 12"x12" Cream w/ Maroon Flakes - 1133		N/A	PLM		X
BS 22.1-22.3 SCT - 2x4 Pinholes & Small Fissures - 1136		N/A	PLM		X
BS 23.1-23.3 VFT - 12"x12" Beige w/ Grey Flakes - 1136A		N/A	PLM		X
BS 24.1-24.3 Parging Cement Elbow - Supply Line - 1138		N/A	PLM		X
BS 25.1-25.3 Carpet Mastie - Grey - 2005		N/A	PLM		X
		N/A	PLM		X

\* If left blank, Paracel will analyze all materials identified during analysis

\*\* If left blank, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116

Comments: 33

Method of Delivery:

United.

Relinquished By (Sign):

Received at Depot:

Received at Lab:

Verified By:

Relinquished By (Print): Diana Banakh

Date/Time:

Date/Time:

Date/Time: Nov 18/2019 16:35

Date/Time: Nov 18/2019

17:05



## APPENDIX D

### Site Photographs



**Photo 1:** Representative view of refrigeration equipment observed in Room 0509, containing various ozone depleting substances.



**Photo 2:** Representative view of the above ground foam tanks observed in Room 0507.



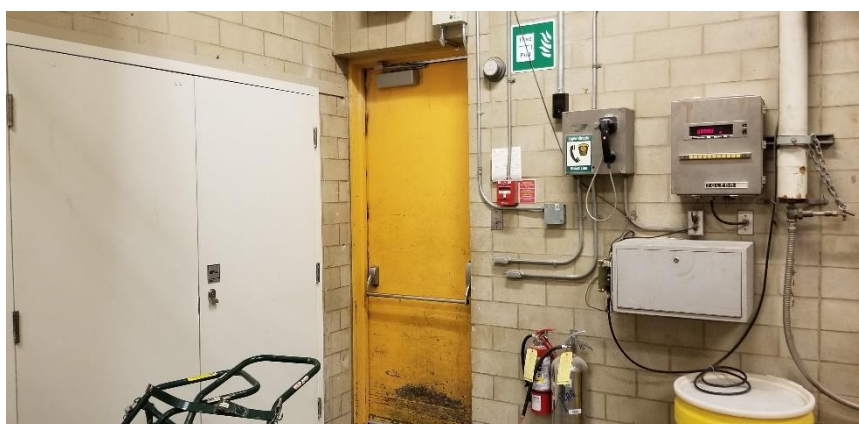
**Photo 3:** Representative view of the fiberglass insulation observed on HVAC ducts in Room 0515.



**Photo 4:** Representative view of the fiberglass insulation observed in Room 0516A/B.



**Photo 5:** View of the poor condition lead floor paint (Grey) observed in Room 1138.



**Photo 6:** Representative view of the yellow lead paint observed in poor condition in Room 1129.





**Photo 7:** View of the above ground diesel storage tank observed in Room 1129C.



**Photo 8:** Representative view of the non-asbestos pipe elbow/fitting insulation observed in Room 1138.



**Photo 9:** Representative view of the fiberglass insulation observed in Room 1138.



**Photo 10:** Representative view of the fiberglass insulation observed in Room 1138.



**Photo 11:** Representative view of the asbestos containing VFT (12"x12" Beige w/ Grey Flakes) observed throughout the subject building.



**Photo 12:** View of the non-asbestos vinyl sheet flooring (Beige Geometric Pattern) observed and sampled in Room 1113.



**Photo 13:** Representative view of the finishes observed in Room 1111.



**Photo 14:** Representative view of the finishes observed in Room 1500K



**Photo 15:** Representative view of the fiberglass insulation observed in Room 1506.





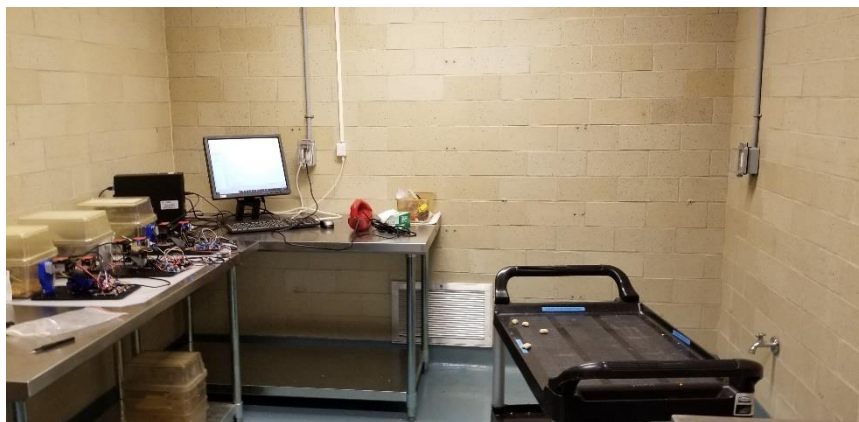
**Photo 16:** Representative view of the finishes observed in the hallway outside of Room 1500J.



**Photo 17:** Representative view of the finishes observed in the hallway outside of Room 1500J.



**Photo 18:** Representative view of the fiberglass insulation observed in Room 1500J.



**Photo 19:** Representative view of the room finishes observed in Room 1201.



**Photo 20:** Representative view of the finishes observed throughout the first floor wet lab areas.

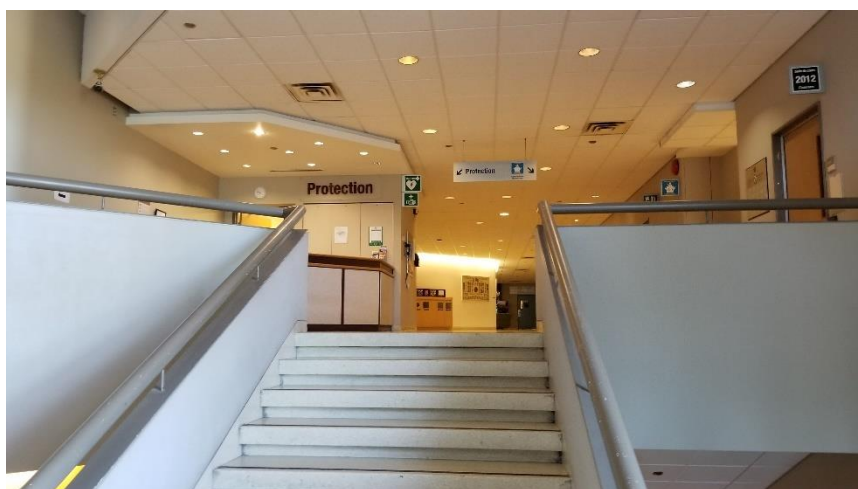


**Photo 21:** Representative view of the lead battery packs observed in Rooms 1326A & 1326C.





**Photo 22:** Representative view of the second level common area finishes.



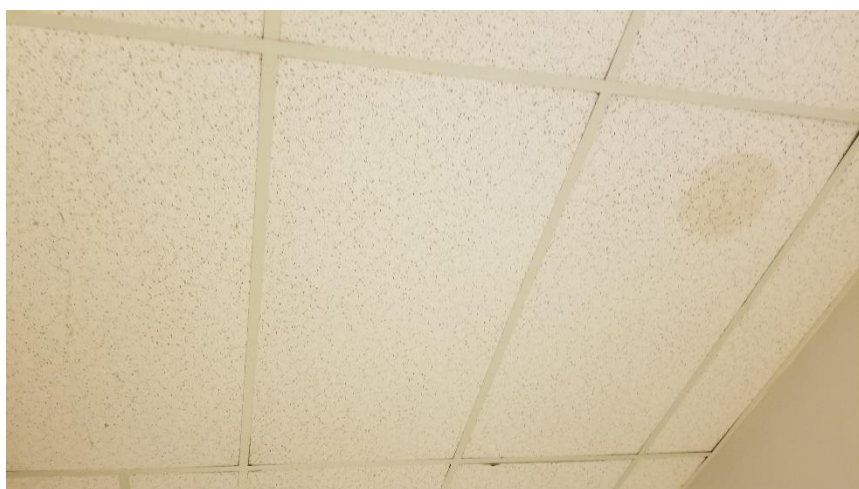
**Photo 23:** Representative view of the finishes observed throughout the second level.



**Photo 24:** Representative view of the finishes throughout the second level.



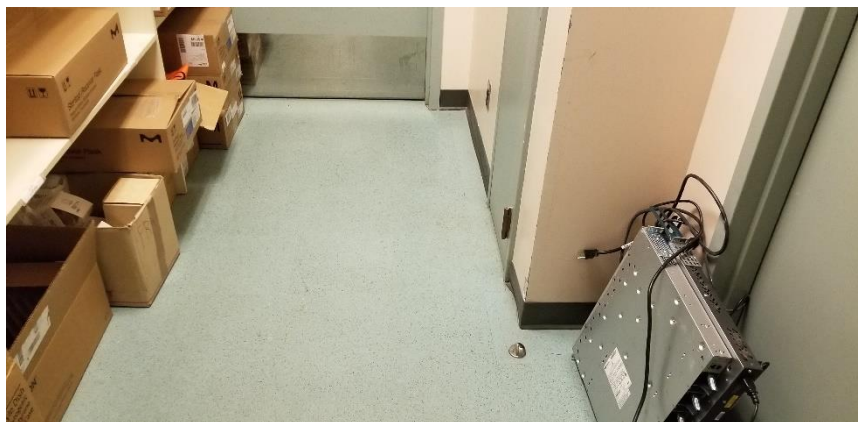
**Photo 25:** View of the non-asbestos containing ceiling texture coat observed in Room 2213B.



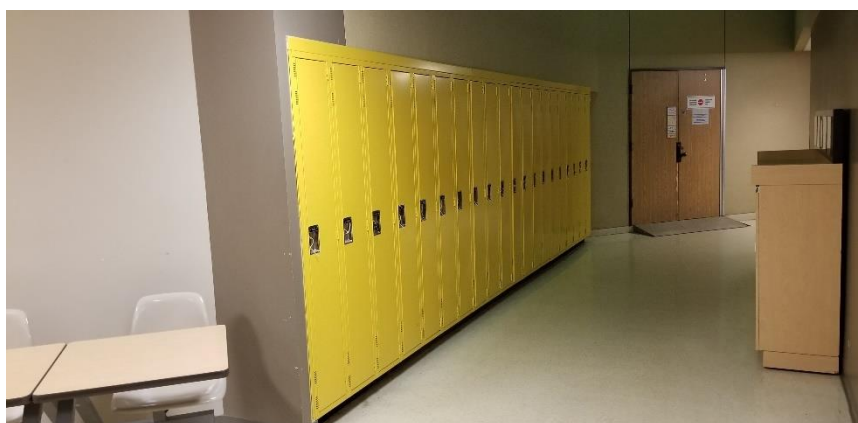
**Photo 26:** Representative view of water damaged ceiling tiles observed throughout the subject building.



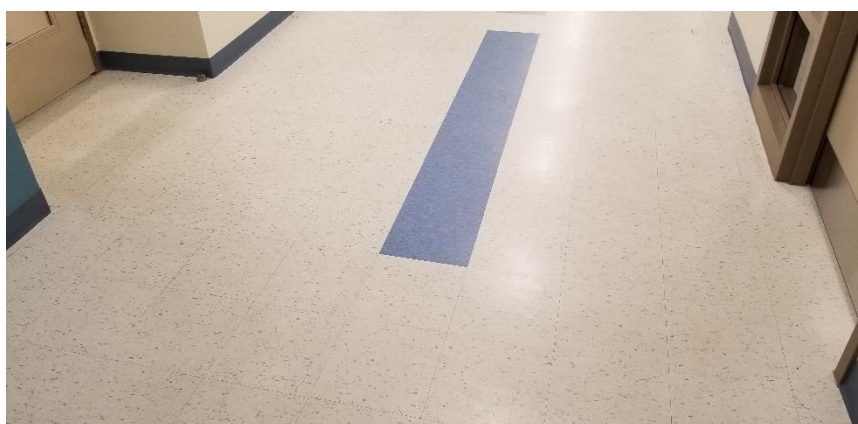
**Photo 27:** View of the non-asbestos VFT (12"x12" Beige w/ Brown Flakes) observed in Room 1129A.



**Photo 28:** View of the non-asbestos VFT (12"x12" - Blue w/ Black Dots ) observed in Room 2482.



**Photo 29:** Representative view of the yellow lead paint observed on lockers throughout the subject building.



**Photo 30:** View of the non-asbestos containing vinyl floor tiles observed throughout the subject building.





**Photo 31:** Representative view of the equipment observed throughout the third floor, containing ozone depleting substances.



**Photo 32:** View of the non-asbestos containing ceiling tiles (2'x4' Mixed Pinholes) observed in 3105T and manufactured in 2016 and 2017.



**Photo 33:** Representative view of the fiberglass mechanical insulation observed in Room 3003B.



**Photo 34:** Representative view of the fiberglass mechanical insulation observed in Room 3003B.



**Photo 35:** Representative view of water damaged ceiling tiles observed throughout the subject building.

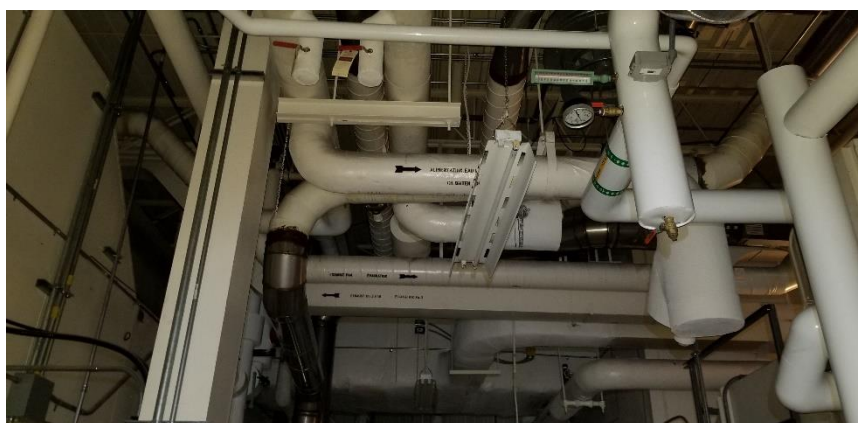


**Photo 36:** View of the typical office finishes observed throughout Room 3058.

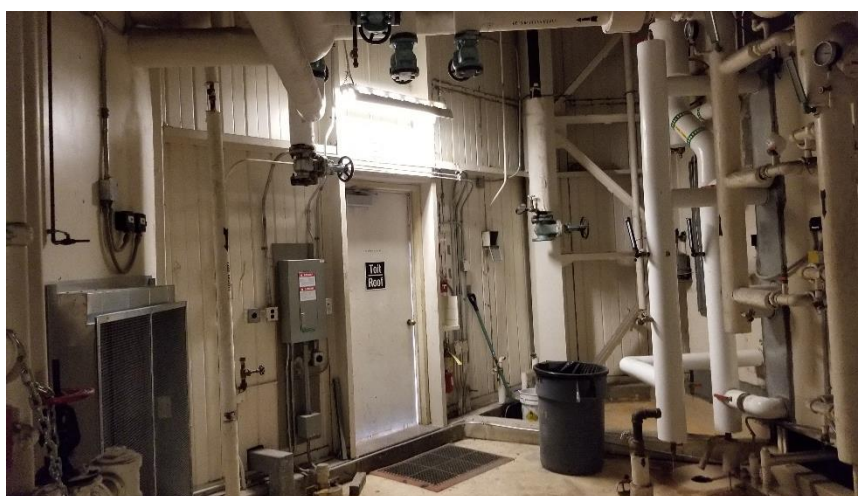




**Photo 37:** View of the non-asbestos ceiling tiles (2'x4' – Pinholes & Small Fissures) observed in Room 4200A.



**Photo 38:** Representative view of the fiberglass mechanical insulation observed in Room 5004.



**Photo 39:** Representative view of the fiberglass mechanical insulation observed in Room 5004.



**Photo 40:** Representative view of the fiberglass mechanical insulation observed in Room 5002.

## APPENDIX E

### Asbestos-Containing Materials Checklists



**Hazardous Materials Survey and 2023 Reassessment**  
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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
0	Throughout Level	Fire Doors	Suspected	-	Good Condition	Moderate	Low	-	-	Manage in Place	
1	Room 1210	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	60	SF	Manage in Place	
1	Room 1114	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	292	SF	Manage in Place	
1	Room 1121	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	276	SF	Manage in Place	
1	Room 1300	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	117	SF	Manage in Place	
1	Room 1304	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	46	SF	Manage in Place	
1	Room 1306	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	117	SF	Manage in Place	
1	Room 1310	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	71	SF	Manage in Place	
1	Room 1319	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	249	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
1	Room 1321	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	756	SF	Manage in Place	
1	Room 1102B	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	22	SF	Manage in Place	
1	Room 1102C	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	65	SF	Manage in Place	
1	Room 1136A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	454	SF	Manage in Place	
1	Room 1136B	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	195	SF	Manage in Place	
1	Room 1300A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	949	SF	Manage in Place	
1	Room 1326F	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	54	SF	Manage in Place	
1	Room 1321	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
1	Throughout Level	Fire Doors	Suspected	-	Good Condition	Moderate	Low	-	-	Manage in Place	
2	Room 2005	Carpet Mastic (Grey)	Confirmed	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
2	Throughout Level	Fire Doors	Suspected	-	Good Condition	Moderate	Low	-	-	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
2	Room 2108	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	508	SF	Manage in Place	
2	Room 2200	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	200	SF	Manage in Place	
2	Room 2205	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	240	SF	Manage in Place	
2	Room 2209	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	194	SF	Manage in Place	
2	Room 2217	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	417	SF	Manage in Place	
2	Room 2218	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	392	SF	Manage in Place	
2	Room 2219	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	143	SF	Manage in Place	
2	Room 2231	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	393	SF	Manage in Place	
2	Room 2232	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	391	SF	Manage in Place	
2	Room 2233	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	392	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
2	Room 2234	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	294	SF	Manage in Place	
2	Room 2237	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	58	SF	Manage in Place	
2	Room 2242	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	265	SF	Manage in Place	
2	Room 2246	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	58	SF	Manage in Place	
2	Room 2247	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	93	SF	Manage in Place	
2	Room 2005A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	121	SF	Manage in Place	
2	Room 2007	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	233	SF	Manage in Place	
2	Room 2008	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	251	SF	Manage in Place	
2	Room 2009	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	251	SF	Manage in Place	
2	Room 2012	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	480	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
2	Room 2043A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	61	SF	Manage in Place	
2	Room 2048	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	977	SF	Manage in Place	
2	Room 2048A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	58	SF	Manage in Place	
2	Room 2052	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	281	SF	Manage in Place	
2	Room 2053	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	295	SF	Manage in Place	
2	Room 2054	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	302	SF	Manage in Place	
2	Room 2055	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	290	SF	Manage in Place	
2	Room 2103A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	65	SF	Manage in Place	
2	Room 2103A1	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	33	SF	Manage in Place	
2	Room 2108A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	238	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
2	Room 2242A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	98	SF	Manage in Place	
2	Room 2242B	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	95	SF	Manage in Place	
2	Room 2049A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	135	SF	Manage in Place	
2	Room 2108	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
2	Room 2209	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
2	Room 2234	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
2	Room 2244	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
2	Room 2424	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
2	Room 2434	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
2	Room 2444	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
2	Room 2454	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
2	Room 2474	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3252	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	59	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
3	Room 3248A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	54	SF	Manage in Place	
3	Room 3248B	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	54	SF	Manage in Place	
3	Throughout Level	Fire Doors	Suspected	-	Good Condition	Moderate	Low	-	-	Manage in Place	
3	Room 3107	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	497	SF	Manage in Place	
3	Room 3108	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	57	SF	Manage in Place	
3	Room 3111	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	499	SF	Manage in Place	
3	Room 3112	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	382	SF	Manage in Place	
3	Room 3113	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	497	SF	Manage in Place	
3	Room 3116	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	58	SF	Manage in Place	
3	Room 3117	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	334	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
3	Room 3127	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	216	SF	Manage in Place	
3	Room 3128	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	400	SF	Manage in Place	
3	Room 3129	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	403	SF	Manage in Place	
3	Room 3130	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	216	SF	Manage in Place	
3	Room 3131	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	501	SF	Manage in Place	
3	Room 3132	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	99	SF	Manage in Place	
3	Room 3135	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	497	SF	Manage in Place	
3	Room 3136	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	91	SF	Manage in Place	
3	Room 3137	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	195	SF	Manage in Place	
3	Room 3138	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	195	SF	Manage in Place	



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3	Room 3139	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	215	SF	Manage in Place	
3	Room 3145	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	497	SF	Manage in Place	
3	Room 3148	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	205	SF	Manage in Place	
3	Room 3149	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	443	SF	Manage in Place	
3	Room 3150	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	263	SF	Manage in Place	
3	Room 3152	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	58	SF	Manage in Place	
3	Room 3153	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	499	SF	Manage in Place	
3	Room 3154	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	177	SF	Manage in Place	
3	Room 3155	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	500	SF	Manage in Place	
3	Room 3156	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	540	SF	Manage in Place	

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3	Room 3157	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	499	SF	Manage in Place	
3	Room 3158	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	48	SF	Manage in Place	
3	Room 3159	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	499	SF	Manage in Place	
3	Room 3163	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	501	SF	Manage in Place	
3	Room 3164	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	31	SF	Manage in Place	
3	Room 3165	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	135	SF	Manage in Place	
3	Room 3167	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	232	SF	Manage in Place	
3	Room 3201	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	99	SF	Manage in Place	
3	Room 3202	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	104	SF	Manage in Place	
3	Room 3205	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	211	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
3	Room 3209	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	493	SF	Manage in Place	
3	Room 3213	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	441	SF	Manage in Place	
3	Room 3211H	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	60	SF	Manage in Place	
3	Room 3217	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	504	SF	Manage in Place	
3	Room 3218	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	243	SF	Manage in Place	
3	Room 3224	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	257	SF	Manage in Place	
3	Room 3228	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	33	SF	Manage in Place	
3	Room 3230	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	55	SF	Manage in Place	
3	Room 3232	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	128	SF	Manage in Place	
3	Room 3242	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	59	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
3	Room 3248	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	1465	SF	Manage in Place	
3	Room 3004B	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	119	SF	Manage in Place	
3	Room 3131A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	240	SF	Manage in Place	
3	Room 3165A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	46	SF	Manage in Place	
3	Room 3202C	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	152	SF	Manage in Place	
3	Room 3202D	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	43	SF	Manage in Place	
3	Room 3111	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3116	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3127	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3128	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3129	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3135	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low		-	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
3	Room 3137	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3138	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3140	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3148	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3150	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3153	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3155	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3156	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3157	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3163	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3174	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3209	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3220	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
3	Room 3131A	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
4	Room 4105	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	497	SF	Manage in Place	
4	Room 4107	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	499	SF	Manage in Place	
4	Room 4109	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	499	SF	Manage in Place	
4	Room 4114	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	59	SF	Manage in Place	
4	Room 4115	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	443	SF	Manage in Place	
4	Room 4116	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	129	SF	Manage in Place	
4	Room 4119	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	497	SF	Manage in Place	
4	Room 4125	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	497	SF	Manage in Place	
4	Room 4127	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	121	SF	Manage in Place	
4	Room 4129	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	241	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
4	Room 4138	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	128	SF	Manage in Place	
4	Room 4140	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	31	SF	Manage in Place	
4	Room 4150	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	123	SF	Manage in Place	
4	Room 4151	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	243	SF	Manage in Place	
4	Room 4152	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	59	SF	Manage in Place	
4	Room 4156	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	497	SF	Manage in Place	
4	Room 4158	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	63	SF	Manage in Place	
4	Room 4159	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	508	SF	Manage in Place	
4	Room 4160	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	119	SF	Manage in Place	
4	Room 4161	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	505	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
4	Room 4162	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	59	SF	Manage in Place	
4	Room 4164	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	256	SF	Manage in Place	
4	Room 4168	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	249	SF	Manage in Place	
4	Room 4176	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	200	SF	Manage in Place	
4	Room 4203	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	400	SF	Manage in Place	
4	Room 4207	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	108	SF	Manage in Place	
4	Room 4211	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	62	SF	Manage in Place	
4	Room 4216	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	252	SF	Manage in Place	
4	Room 4223	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	56	SF	Manage in Place	
4	Room 4231	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	150	SF	Manage in Place	



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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
4	Room 4230	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	150	SF	Manage in Place	
4	Room 4233	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	750	SF	Manage in Place	
4	Room 4235	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	268	SF	Manage in Place	
4	Room 4246	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	375	SF	Manage in Place	
4	Room 4250	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	134	SF	Manage in Place	
4	Room 4250	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	223	SF	Manage in Place	
4	Room 4252	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	59	SF	Manage in Place	
4	Room 4253	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	249	SF	Manage in Place	
4	Room 4253	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	61	SF	Manage in Place	
4	Room 4255	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	898	SF	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
4	Room 4264	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	59	SF	Manage in Place	
4	Room 4107A	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	121	SF	Manage in Place	
4	Room 4200B	Vinyl Floor Tiles (12"x12" Beige w/ Grey Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Low	434	SF	Manage in Place	
4	Room 4105	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4112	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4130	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4132	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4139	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4145	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4157	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4205	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4215	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4230	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	

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Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approximate Quantity	Unit	Recommended Action	Comments
4	Room 4233	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4235	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4246	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4248	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4250	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4251	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4257	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4133A	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Room 4221A	Transite (Fumehood)	Suspected	Non-Friable	Enclosed	Difficult	Low	-	-	Manage in Place	
4	Throughout Level	Fire Doors	Suspected	-	Good Condition	Moderate	Low	-	-	Manage in Place	
5	Throughout Level	Fire Doors	Suspected	-	Good Condition	Moderate	Low	-	-	Manage in Place	
5	Roof Level	Roofing Materials	Suspected	-	Good Condition	Moderate	Low	-	-	Manage in Place	
6	Roof Level	Roofing Materials	Suspected	-	Good Condition	Moderate	Low	-	-	Manage in Place	

## APPENDIX F

### Hazardous Containing Materials Checklists

**Hazardous Materials Survey and 2023 Reassessment**  
**Roger Guindon Hall - 451 Smyth Road, Ottawa, Ontario**  
**Appendix F - Hazardous Containing Materials Checklist**

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Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Approximate Quantity	Unit	Suspected/ Confirmed	Recommended Action	Comments
0	Room 0501	USTs/ASTs	Diesel Tank	N/A	Good Condition	N/A	1	C	Confirmed	Manage in Place	
0	Room 0507	USTs/ASTs	Foam Tank	N/A	Good Condition	N/A	4	C	Confirmed	Manage in Place	
0	Room 0503	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-22
0	Room 0509	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	7	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
0	Room 0510	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	7	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
0	Room 0511	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	7	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
0	Room 0512	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	7	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.

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Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Approximate Quantity	Unit	Suspected/ Confirmed	Recommended Action	Comments
0	Room 0513	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	7	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
0	Room 0517	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	7	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
0	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	
0	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage in Place	
1	Room 1412	Mould/ Water Damage	Ceiling Tile	N/A	Poor Condition	N/A	1	C	Confirmed	Should be replaced as part of regular maintenance.	
1	Room 1007	Mould/ Water Damage	Ceiling Tile	N/A	Poor Condition	N/A	1	C	Confirmed	Should be replaced as part of regular maintenance.	
1	Room 1007B	Mould/ Water Damage	Ceiling Tile	N/A	Poor Condition	N/A	1	C	Confirmed	Should be replaced as part of regular maintenance.	
1	Room 1135	Mould/ Water Damage	Ceiling Tile	N/A	Poor Condition	N/A	1	C	Confirmed	Should be replaced as part of regular maintenance.	
1	Room 4001	USTs/ASTs	Diesal Tank	N/A	Good Condition	N/A	1	C	Confirmed	Manage in Place	
1	Room 1129C	USTs/ASTs	Diesal Tank	N/A	Good Condition	N/A	1	C	Confirmed	Manage in Place	
1	Room 1326A	Lead	Battery Pack	N/A	Good Condition	N/A	1	C	Confirmed	Manage in Place	
1	Room 1326C	Lead	Battery Pack		Good Condition	N/A	1	C	Confirmed	Manage in Place	
1	Room 1471	Lead	Battery Pack		Good Condition	N/A	3	C	Confirmed	Manage in Place	
1	Throughout Level	Lead	Door Paint	Light Yellow	Good Condition	N/A	-	-	Confirmed	Manage in Place	

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Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Approximate Quantity	Unit	Suspected/ Confirmed	Recommended Action	Comments
1	Throughout Level	Lead	Door Paint	Dark Yellow	Good Condition	N/A	-	-	Confirmed	Manage in Place	
1	Throughout Level	Lead	Floor & Equipment Paint	Grey	Good Condition	N/A	-	-	Confirmed	Manage in Place	
1	Room 1129	Lead	Door Paint	Dark Yellow	Poor Condition	N/A	2	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	Throughout Level	Lead	Locker Paint	Yellow	Good Condition	N/A	-	-	Confirmed	Manage in Place	
1	Throughout Level	Lead	Fence Paint	Yellow	Good Condition	N/A	-	-	Confirmed	Manage in Place	
1	Room 1002	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134A
1	Room 1014	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R-134a
1	Room 1015	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R5-15 and R134A



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Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Approximate Quantity	Unit	Suspected/ Confirmed	Recommended Action	Comments
1	Room 1016	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
1	Room 1020	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
1	Room 1026	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134a
1	Room 1114	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R12
1	Room 1107B	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134a
1	Room 1112	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134a

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Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Approximate Quantity	Unit	Suspected/ Confirmed	Recommended Action	Comments
1	Room 1114B	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-12
1	Room 1118	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1125	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1127A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134a
1	Room 1129A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134a
1	Room 1129A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	Unknown Refrigerant

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Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Approximate Quantity	Unit	Suspected/ Confirmed	Recommended Action	Comments
1	Room 1129B1B	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1130	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134a
1	Room 1145	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1127A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1200D	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134a
1	Room 1217B	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant

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Z1920014HZ / CCC-230252-00

Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Approximate Quantity	Unit	Suspected/ Confirmed	Recommended Action	Comments
1	Room 1223B	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1230A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134A, R22, R404A, R407, R507)
1	Room 1302	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
1	Room 1314	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1314	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1317	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134A

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1	Room 1320	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1324.2	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1324.2	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1326	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134a
1	Room 1451	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1454	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A

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1	Room 1454	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
1	Room 1455	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1422	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1434	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
1	Room 1444	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
1	Room 1454	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.

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1	Room 1461	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Room 1464	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
1	Room 1465	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R404A
1	Room 1471	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R404A
1	Room 1518	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R-134a
1	Room 1541	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	Unknown Refrigerant
1	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	



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1	Room 1127B	Mercury	Thermostat Switch	N/A	Good Condition	-	1	C	Confirmed	Manage in Place	
1	Room 1138	Mercury	Thermostat Switch	N/A	Good Condition	-	1	C	Confirmed	Manage in Place	
1	Room 1138	Mercury	Pressure Gauges	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	
1	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage in Place	
2	Room 2160	Mould/ Water Damage	Ceiling Tile	N/A	Poor Condition	N/A	2	C	Confirmed	Should be replaced as part of regular maintenance.	
2	Throughout Level	Lead	Floor & Equipment Paint	Grey	Good Condition	N/A	-	-	Confirmed	Manage in Place	
2	Throughout Level	Lead	Locker Paint	Yellow	Good Condition	N/A	-	-	Confirmed	Manage in Place	
2	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	
2	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage in Place	
2	Room 2016	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	404A, R134A, R22, and R12.
2	Room 2029A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2049	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A

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2	Room 2117	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	404A, R134A, R22, and R12.
2	Room 2117C	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134 and R404A
2	Room 2117C	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134 and R404A
2	Room 2117E	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2133	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2202C	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134 and R404A

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2	Room 2209	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2221	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2221	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2231	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2233A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2236	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A

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2	Room 2424	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134 and R404A
2	Room 2432	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2434	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2435	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2435	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2435	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A

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2	Room 2435	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134 and R404A
2	Room 2441	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2444	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R22 and R134A
2	Room 2455	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2455	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2455	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A

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2	Room 2461	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	5	C	Confirmed	Manage in Place	404A, R134A, R22, and R12.
2	Room 2464	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	404A, R134A, R22, and R12.
2	Room 2474	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2475	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2485	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	404A, R134A, R22, and R12.
2	Room 2501A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A

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2	Room 2501A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2501A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2503	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134 and R404A
2	Room 2505	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2505	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2505	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A



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2	Room 2505	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2505	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2506	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2506	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2506	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134 and R404A
2	Room 2507	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	5	C	Confirmed	Manage in Place	404A, R134A, R22, and R12.

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2	Room 2507	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2508	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2509	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2525	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2541A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2541A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A

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2	Room 2541A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2541E	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2541E	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2541E	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
2	Room 2541J	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134 and R404A
2	Room 2541J	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A

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2	Room 2541J	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
3	Room 3201	Mould/ Water Damage	Ceiling Tile	N/A	Poor Condition	N/A	2	C	Confirmed	Should be replaced as part of regular maintenance.	
3	Room 3202	Mould/ Water Damage	Ceiling Tile	N/A	Poor Condition	N/A	2	C	Confirmed	Should be replaced as part of regular maintenance.	
3	Room 3062	Mould/ Water Damage	Ceiling Tile	N/A	Poor Condition	N/A	1	C	Confirmed	Should be replaced as part of regular maintenance.	
3	Throughout Level	Lead	Floor & Equipment Paint	Grey	Good Condition	N/A	-	-	Confirmed	Manage in Place	
3	Throughout Level	Lead	Locker Paint	Yellow	Good Condition	N/A	-	-	Confirmed	Manage in Place	
3	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	
3	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage in Place	
3	Room 3003A	Mercury	Thermostat Switch	N/A	Good Condition	-	1	C	Confirmed	Manage in Place	
3	Room 3003	Mercury	Pressure Gauges	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	
3	Room 3000	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134A
3	Room 3500	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134A and R12

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3	Room 3100C	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	5	C	Confirmed	Manage in Place	R404A, R134A, R508B, R23, and R290,.
3	Room 3100B	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R124A and Unknown Refrigerants
3	Room 3023	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R12
3	Room 3028	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
3	Room 3205	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
3	Room 3216	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R404A and R134A

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3	Room 3105N	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3105Q	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3216	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3105R	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	9	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3106	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	10	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3106C	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R404A, R22 and R134A

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3	Room 3106D	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R404A, R22 and R134A
3	Room 3106E	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R404A, R22 and R134A
3	Room 3106F	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R404A, R22 and R134A
3	Room 3106H	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R404A, R22 and R134A
3	Room 3106J	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R404A, R22 and R134A
3	Room 3106K	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R404A, R22 and R134A



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3	Room 3106Q	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R404A, R22 and R134A
3	Room 3116	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R404A, R22 and R134A
3	Room 3202D	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
3	Room 3203	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R404A, R22 and R134A
3	Room 3219	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
3	Room 3220A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	5	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507

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3	Room 3211	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3051	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
3	Room 3205	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3506	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
3	Room 3211F	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3211D	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A

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3	Room 3235	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
3	Room 3230D	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R404A, R22 and R134A
3	Room 3522	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	11	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3520	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	7	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3501	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	9	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
3	Room 3501H	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507

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3	Room 3501V	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R12, R22, R502, R134A, R404A, R407C, and R507
4	Throughout Level	Lead	Floor & Equipment Paint	Grey	Good Condition	N/A	-	-	Confirmed	Manage in Place	
4	Throughout Level	Lead	Metal Beam & Column Paint	Turquoise	Good Condition	N/A	-	-	Confirmed	Manage in Place	
4	Throughout Level	Lead	Locker Paint	Yellow	Good Condition	N/A	-	-	Confirmed	Manage in Place	
4	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	
4	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage in Place	
4	Room 4002	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R134A & R404A
4	Room 4002A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134A
4	Room 4100F	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant

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4	Room 4100G	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
4	Room 4100H	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
4	Room 4100J	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
4	Room 4105	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R134A
4	Room 4107	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R134A and R290
4	Room 4109	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R134A

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4	Room 4110	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R134A
4	Room 4111	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R134A
4	Room 4115	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134A
4	Room 4115	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R134A
4	Room 4119	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R134A
4	Room 4122	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R404A

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4	Room 4123B	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies		C	Confirmed	Manage in Place	R134A
4	Room 4125	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R134A
4	Room 4129	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	2	C	Confirmed	Manage in Place	R134A
4	Room 4130	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	5	C	Confirmed	Manage in Place	R134A
4	Room 4133	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
4	Room 4139	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant



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4	Room 4149	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
4	Room 4156	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R134A
4	Room 4157	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	5	C	Confirmed	Manage in Place	R134A
4	Room 4172C	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	7	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
4	Room 4172D	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
4	Room 4200F	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R404A

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4	Room 4200G	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
4	Room 4505	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
4	Room 4507	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
4	Room 4203	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
4	Room 4205	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R134A
4	Room 4210F	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant

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4	Room 4210G	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	Unknown Refrigerant
4	Room 4210E	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	5	C	Confirmed	Manage in Place	R134A
4	Room 4210D	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R134A
4	Room 4210	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	5	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
4	Room 4213	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R404A & R134A
4	Room 4217	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R404A & R134A

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4	Room 4221	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	4	C	Confirmed	Manage in Place	R404A & R134A
4	Room 4226A	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R404A & R134A
4	Room 4226	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	3	C	Confirmed	Manage in Place	R404A & R134A
4	Room 4231	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	5	C	Confirmed	Manage in Place	R12 & R404A
4	Room 4245	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	1	C	Confirmed	Manage in Place	R134A
4	Room 4251	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.

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Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Approximate Quantity	Unit	Suspected/ Confirmed	Recommended Action	Comments
4	Room 4253	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
4	Room 4255	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	6	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
4	Room 4258	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	5	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
4	Room 4501	Ozone Depleting Substances (ODS)	Refrigerator, Freezer, Mini Fridge, Water Fountain, and/or Water Cooler	N/A	Good Condition	Varies	25	C	Confirmed	Manage in Place	R290, R508B, R519, R404A, R134A, R22, and R12.
5	Throughout Level	Lead	Floor & Equipment Paint	Grey	Good Condition	N/A	-	-	Confirmed	Manage in Place	
5	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	
5	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage in Place	
5	Room 5500	Mercury	Thermostat Switch	N/A	Good Condition	-	1	C	Confirmed	Manage in Place	
5	Room 5501	Mercury	Thermostat Switch	N/A	Good Condition	-	1	C	Confirmed	Manage in Place	
5	Room 5502	Mercury	Thermostat Switch	N/A	Good Condition	-	1	C	Confirmed	Manage in Place	
5	Room 5004	Mercury	Thermostat Switch	N/A	Good Condition	-	1	C	Confirmed	Manage in Place	
5	Room 5501	Mercury	Pressure Gauges	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	
5	Room 5002	Mercury	Pressure Gauges	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	

**Hazardous Materials Survey and 2023 Reassessment**  
**Roger Guindon Hall - 451 Smyth Road, Ottawa, Ontario**  
**Appendix F - Hazardous Containing Materials Checklist**

Z1920014HZ / CCC-230252-00

Floor/Level	Location	Type	Component	Colour	Condition	Manufacturer	Approximate Quantity	Unit	Suspected/ Confirmed	Recommended Action	Comments
5	Room 5004	Mercury	Pressure Gauges	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	

## APPENDIX G

### Site Sampling & Location Plans





**Legend:**  
▲ Asbestos Bulk Sample  
■ Lead Paint Sample

**Notes:**  
ACM Transite present in Fume Hoods

- ACM Vinyl Floor Tiles (VFT)
- ACM Carpet Mastic

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

PAVILLON ROGER GUINDON  
ROGER GUINDON HALL  
----  
451 SMYTH ROAD  
----

Dessin / Drawing:  
SITE PLAN &  
SAMPLE LOCATIONS

Édifice/Bldg ---- 050 ----	Niveau/Level: 0 ----
Échelle/Scale: 1:600	Revised: 1
Feuille/Sheet: A-0	08/09/2015 1 of/de 8

BUILDING COMBINED  
JB



**Legend:**

▲ Asbestos Bulk Sample  
■ Lead Paint Sample

**Notes:**  
ACM Transite present in Fume Hoods

ACM Vinyl Floor Tiles (VFT)  
ACM Carpet Mastic

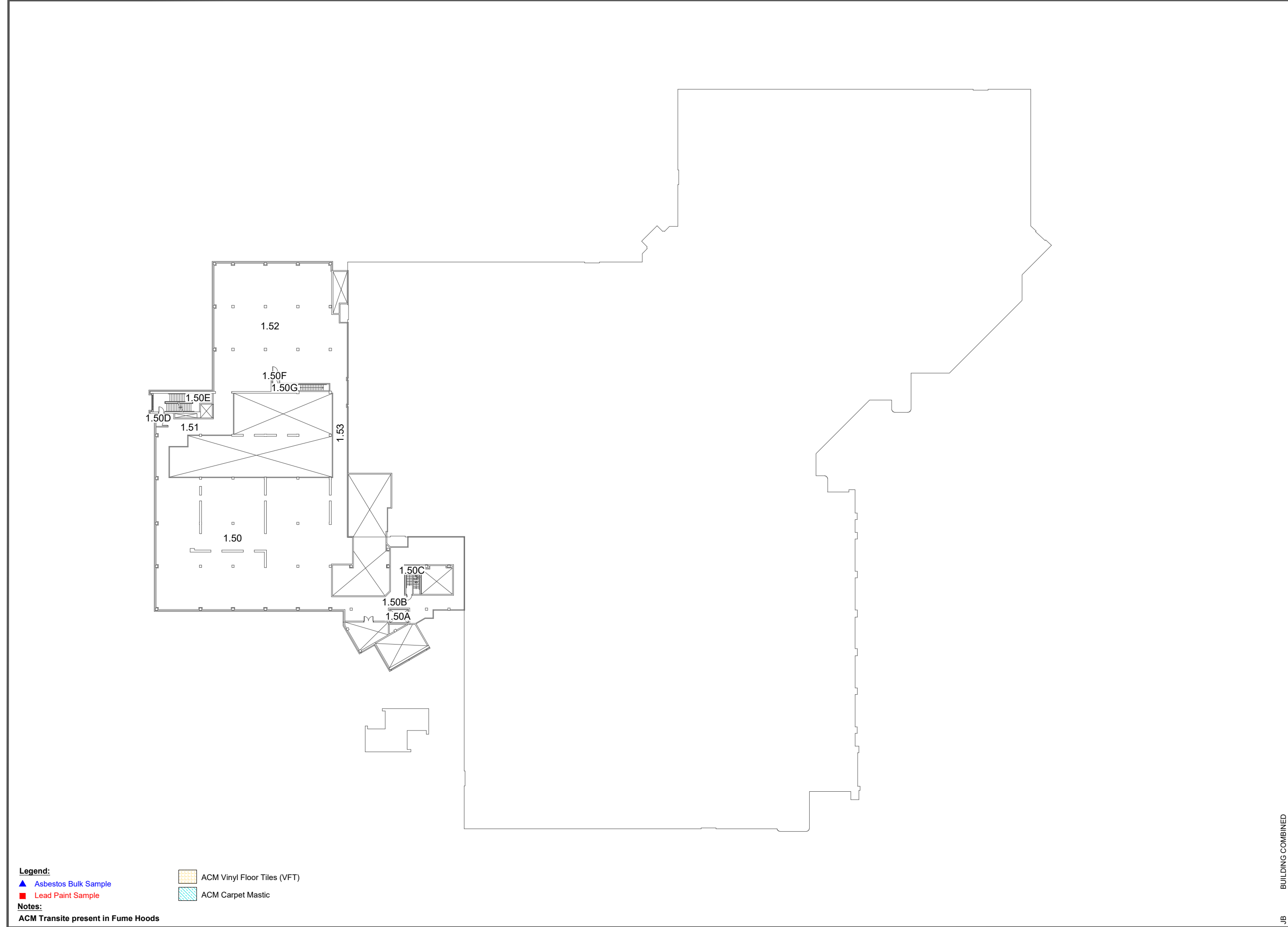
REV	DATE	DESCRIPTION	BY

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WOODBRIDGE, ON., L4H 4G3  
Tel: 905.856.5200 Fax: 905.695.0221  
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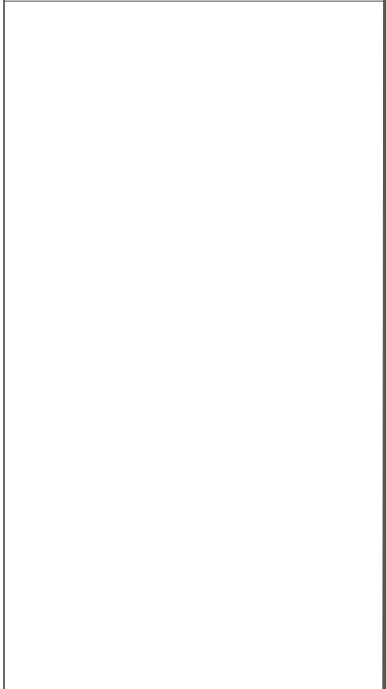
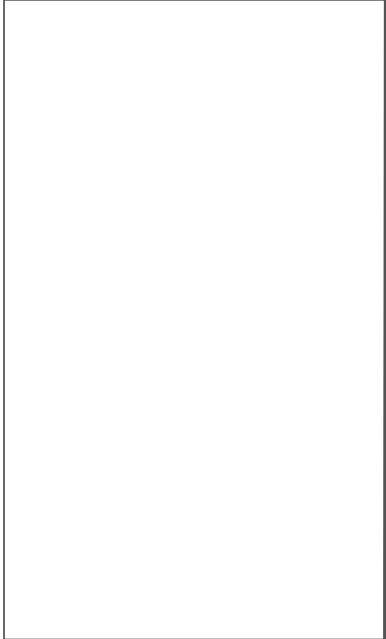
PAVILLON ROGER GUINDON  
ROGER GUINDON HALL  
----  
451 SMYTH ROAD  
----

Dessin / Drawing: <b>SITE PLAN &amp; SAMPLE LOCATIONS</b>			
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Echelle/Scale: 1:600	Revision: 1	08/09/2015	2 of/de 8

BUILDING COMBINED  
JB



REV	DATE	DESCRIPTION	BY



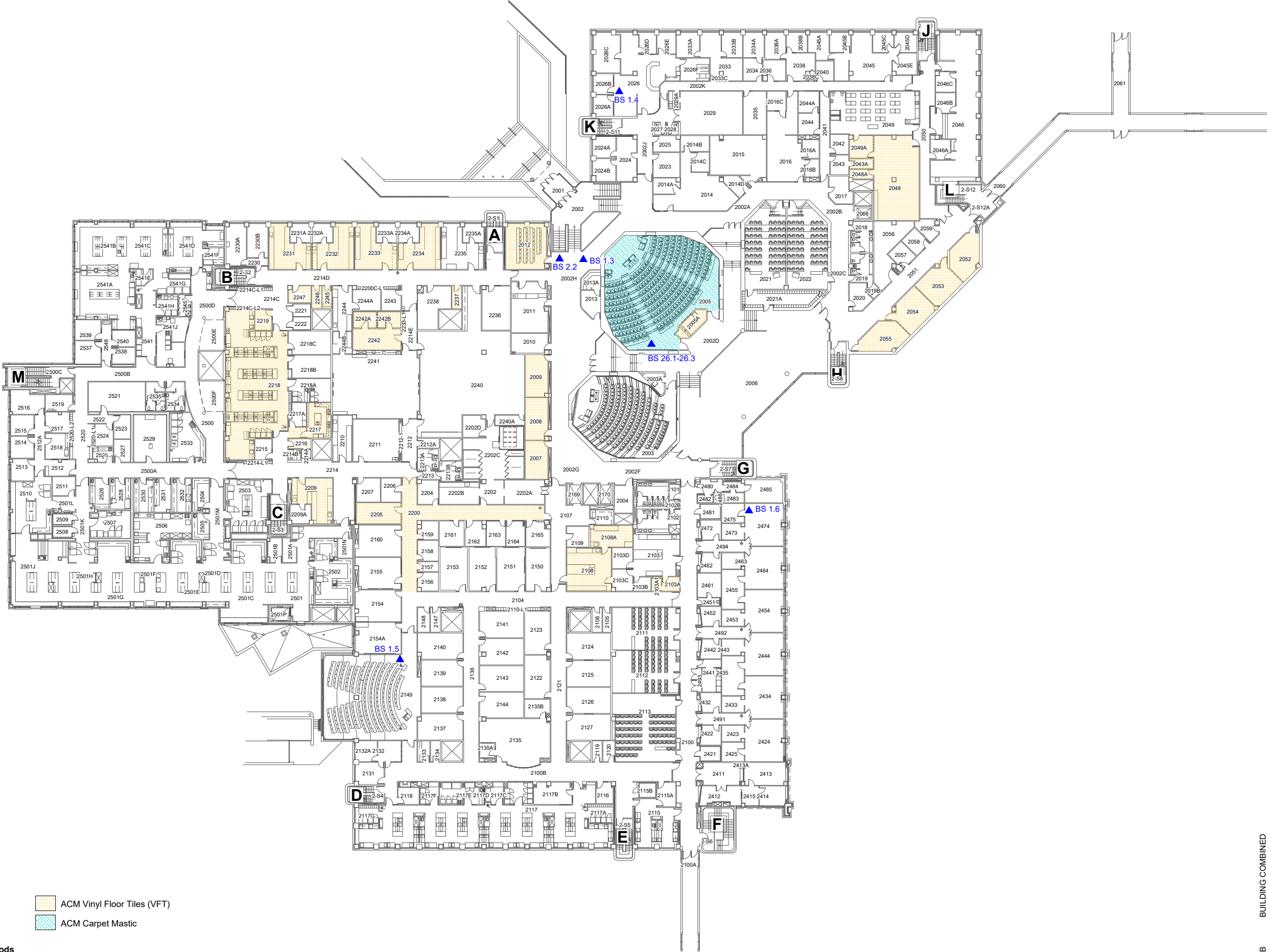
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----  
45I SMYTH ROAD  
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Dessin / Drawing:  
SITE PLAN &  
SAMPLE LOCATIONS

Édifice/Bldg ---- 050 ----	Niveau/Level: ---- 1.5 ----
Échelle/Scale: 1:600	Revision: 1
08/09/2015	A-1.5 3 of/de 8

BUILDING COMBINED  
JB



**Legend:**

▲ Asbestos Bulk Sample

■ Lead Paint Sample

**Notes:**

ACM Transite present in Fume Hoods

ACM Vinyl Floor Tiles (VFT)

ACM Carpet Mastic

REV	DATE	DESCRIPTION	BY

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Dessin / Drawing:

**SITE PLAN &  
SAMPLE LOCATIONS**

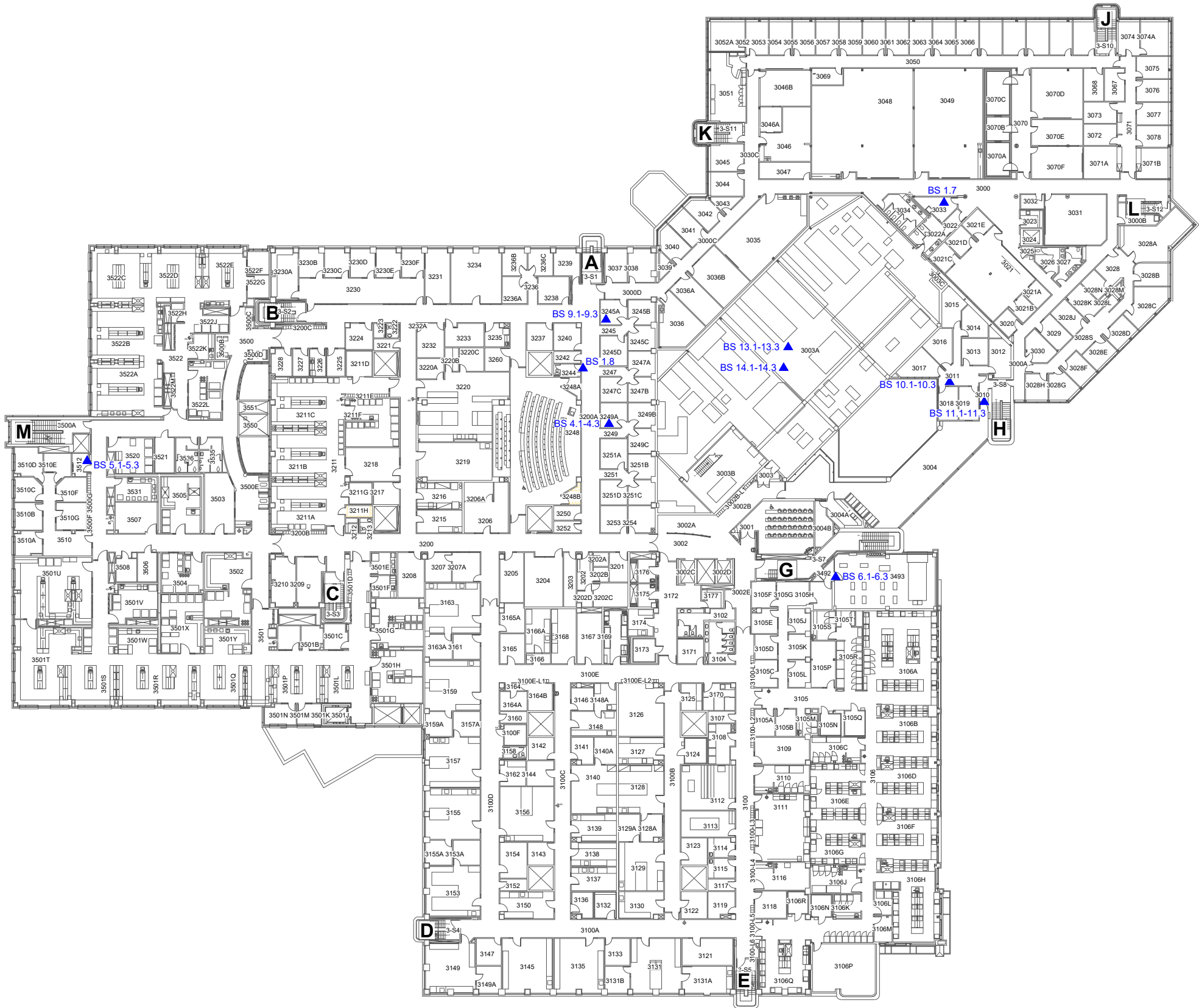
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----	----	Feuille/Sheet:	----
----	----	A-2	----

Échelle/Scale:	Revision:
1:600	1

08/09/2015

4 of/de 8

BUILDING COMBINED  
JB



**Legend:**  
▲ Asbestos Bulk Sample  
■ Lead Paint Sample  
**Notes:**  
ACM Transite present in Fume Hoods

 ACM Vinyl Floor Tiles (VFT)

 ACM Carpet Mastic

REV	DATE	DESCRIPTION	BY

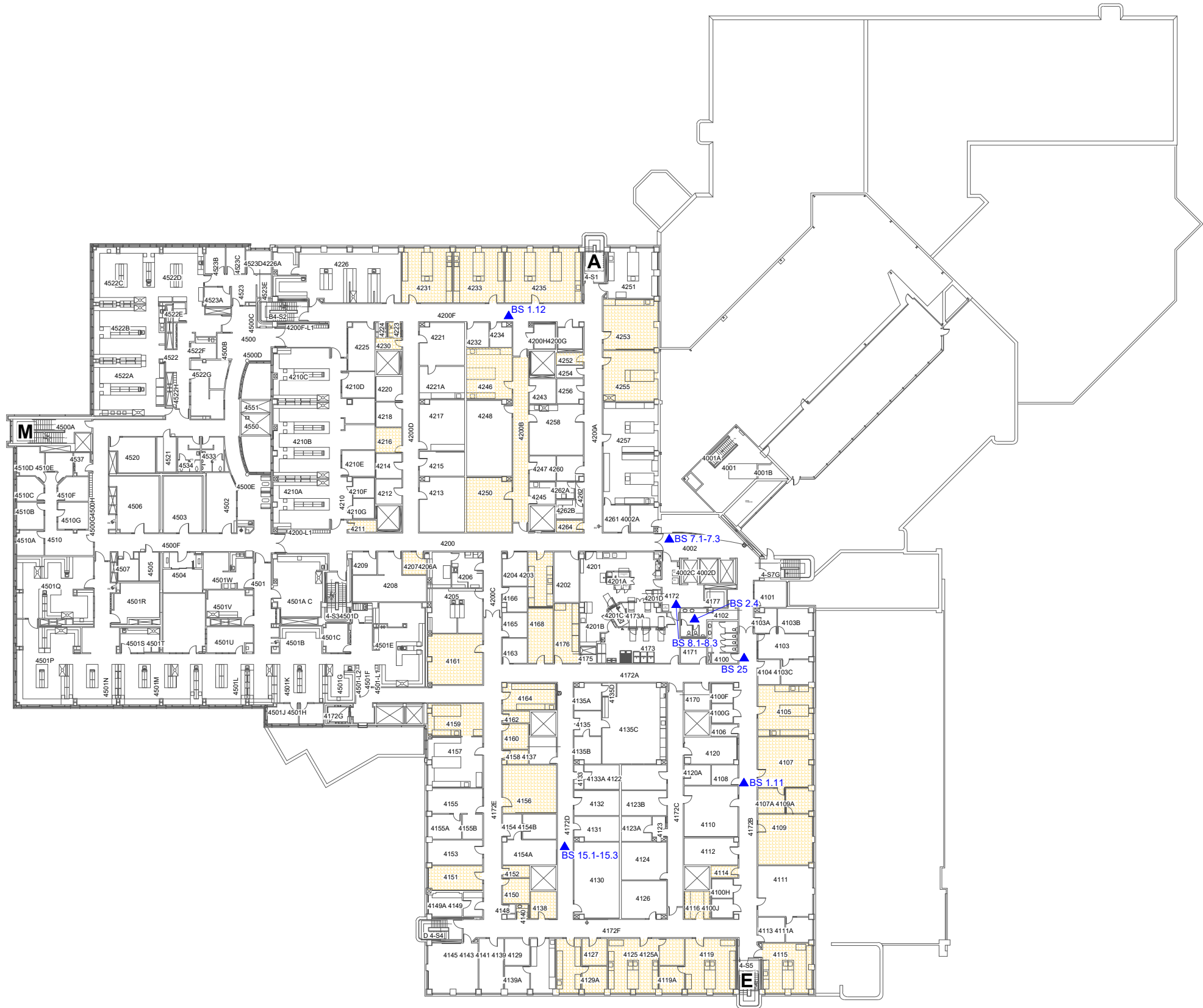
**McINTOSH PERRY**  
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Dessin / Drawing: <b>SITE PLAN &amp; SAMPLE LOCATIONS</b>			
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Echelle/Scale: 1:600	Revision: 1	08/09/2015	5 of/de 8

BUILDING COMBINED  
JB





**Legend:**  
▲ Asbestos Bulk Sample  
■ Lead Paint Sample  
**Notes:**  
ACM Transite present in Fume Hoods

ACM Vinyl Floor Tiles (VFT)  
ACM Carpet Mastic

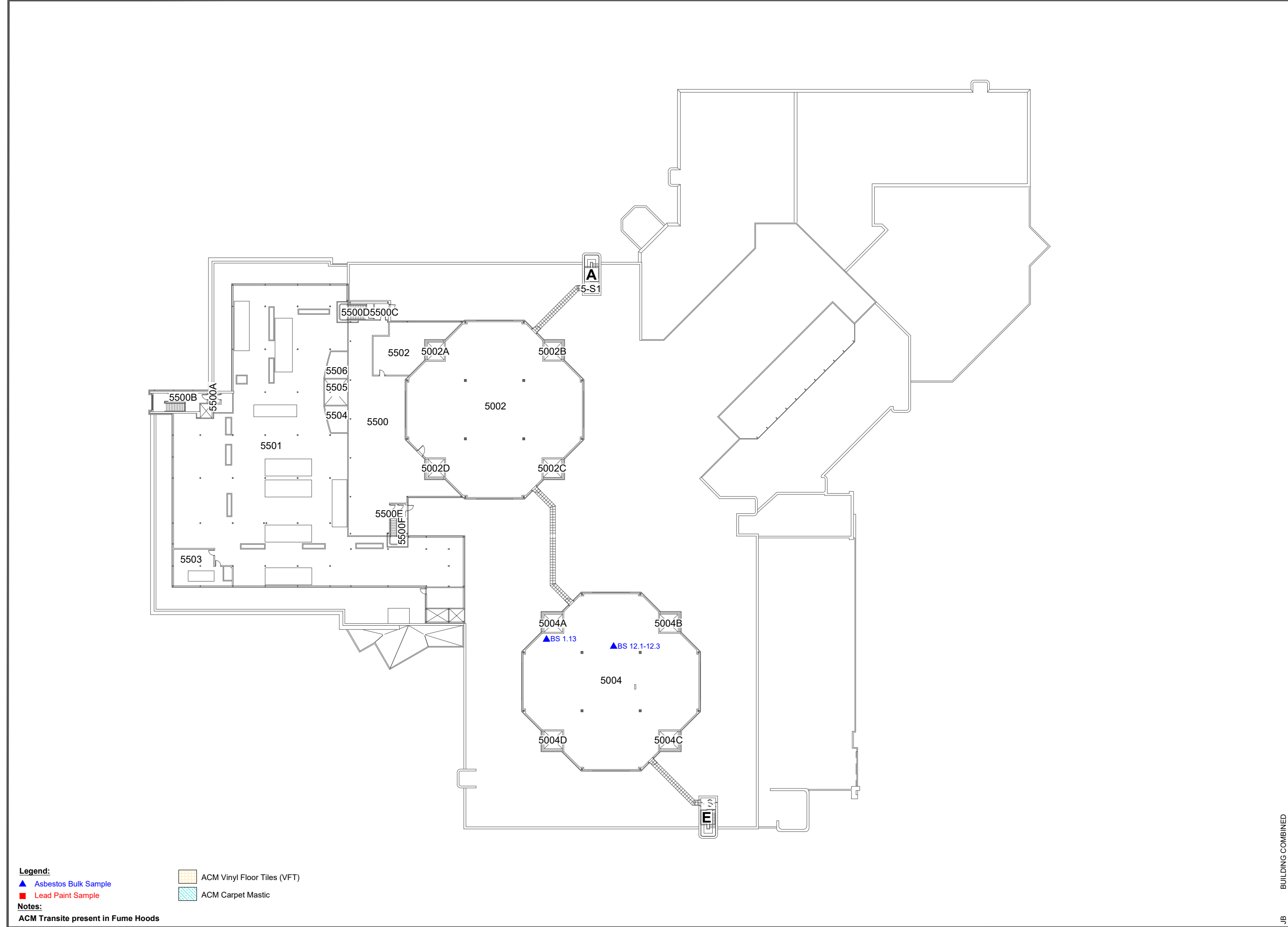
REV	DATE	DESCRIPTION	BY

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Dessin / Drawing: <b>SITE PLAN &amp; SAMPLE LOCATIONS</b>			
Édifice/Bldg 050	Niveau/Level: 4	Feuille/Sheet: A-4	
Échelle/Scale: 1:600	Revision: 1	08/09/2015	6 of/de 8

BUILDING COMBINED  
JB



**Legend:**  
▲ Asbestos Bulk Sample  
■ Lead Paint Sample

**Notes:**  
ACM Transite present in Fume Hoods

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- ACM Carpet Mastic

REV	DATE	DESCRIPTION	BY

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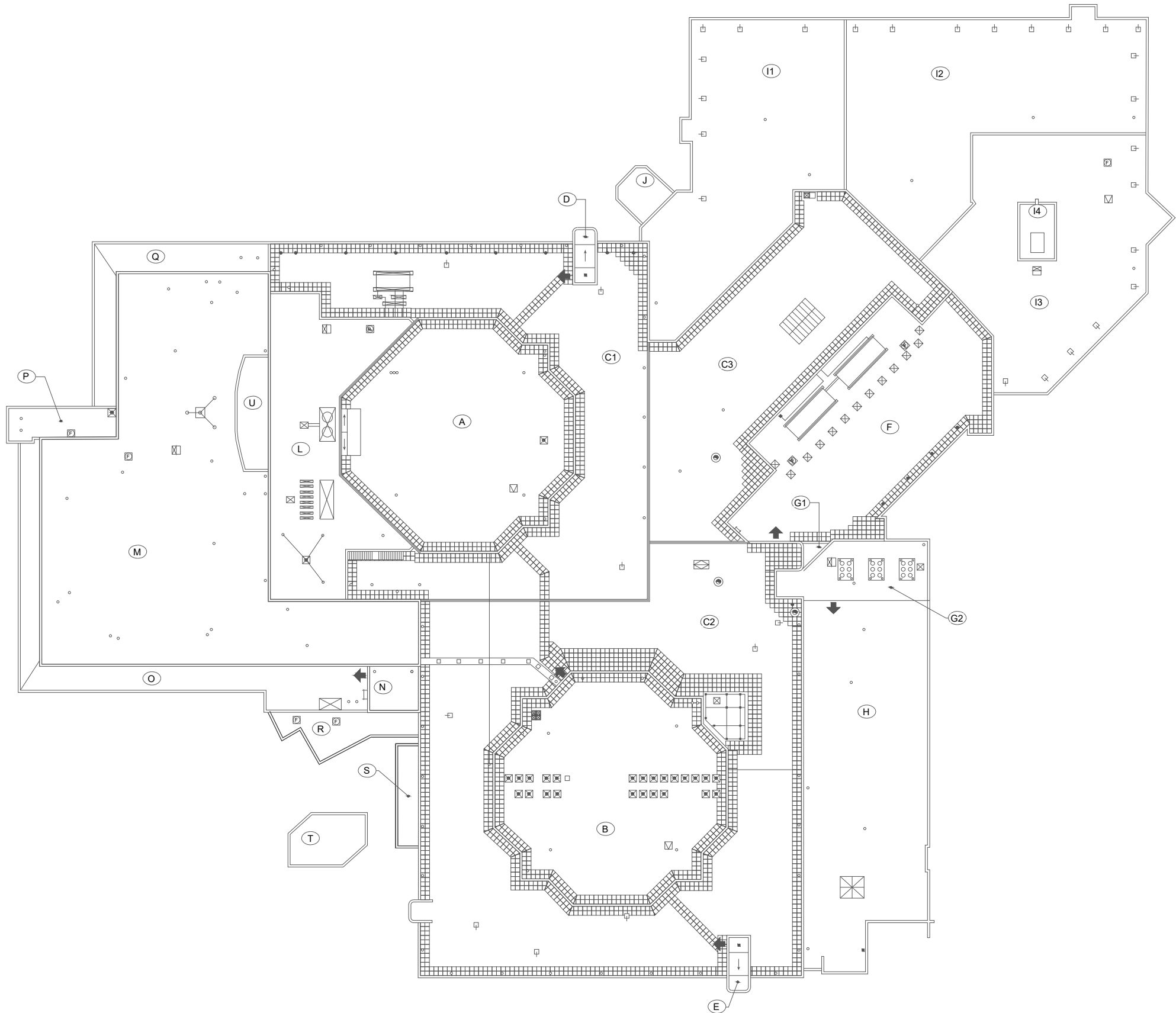
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Échelle/Scale: 1:600	Revision: 1
Feuille/Sheet: A-5 7 of/de 8	

BUILDING COMBINED

JB





**Legend:**

▲ Asbestos Bulk Sample

■ Lead Paint Sample

**Notes:**

ACM Transite present in Fume Hoods

ACM Vinyl Floor Tiles (VFT)

ACM Carpet Mastic

REV	DATE	DESCRIPTION	BY

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Dessin / Drawing:  
**SITE PLAN &  
SAMPLE LOCATIONS**

Édifice/Bldg 050	Niveau/Level: 6
Échelle/Scale: 1:600	Revision: 1
Feuille/Sheet: A-6 8 of/de 8	

BUILDING COMBINED  
JB