DESIGNATED SUBSTANCES AND HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT

Renovation Project
Ground, 7th, 9th, 10th and 11th Floors
Centre for Addiction and Mental Health (CAMH)
250 College Street
Toronto, Ontario
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EXECUTIVE SUMMARY

Safetech Environmental Limited (Safetech) was commissioned by Centre for Addiction and Mental Health (CAMH) to conduct a designated substances and hazardous materials assessment in project specific locations of the Ground, 7th, 9th, 10th and 11th Floors of 250 College Street, Toronto, Ontario.

The objective of the assessment was to determine the presence, location, condition and quantities of designated substances and other hazardous materials that have the potential to be disturbed as part of planned construction activities (i.e. Renovation Project) so that appropriate control measures can be implemented to protect workers during the work.

A summary of the assessment results and general recommendations based on our findings are provided in the following table. This table should be considered a summary only. Please refer to the Results (Section 2.0), Conclusions and Recommendations (Section 3.0), Summary of ACM Occurrences (Appendix A) and Site Drawings (Appendix B) of our report for additional details.

Table 1: Summary of Hazardous Materials and Designated Substances

Designated Substance	Findings	Recommendations
Asbestos	The following asbestos-containing materials were identified in the subject area that may be impacted during the project: - drywall joint compound - plaster - vinyl floor tiles - texture coat / stucco - parging cement on pipe fittings - duct insulation - sprayed fireproofing - transite cement ceiling panels	Disturbance of asbestos-containing materials must be conducted in accordance with Ontario Regulation 278/05 *Designated Substance – Asbestos on Construction Projects and in Building and Repair Operations.* Refer to Table 3 (Results of Assessment for Asbestos-Containing Materials), Section 3.1.1 (Conclusions and Recommendations), Appendix A (Summary of ACM Occurrences) and Appendix B (Site Drawings). Asbestos-containing waste must be disposed of in accordance with R.R.O. 1990, Regulation 347, *General - Waste Management*.

Lead	Beige paint associated with plaster and drywall was confirmed to be low-level lead-containing paint (≤0.1% lead content). The following materials are assumed to be lead-containing: - paints and surface coatings (not sampled) - batteries associated with emergency lighting - solder in copper pipe fittings - solder in electrical components	Disturbance of lead-containing materials must be conducted in accordance with the Ontario Ministry of Labour, Immigration, Training and Skills Development (MLITSD) *Lead on Construction Projects* guideline (2011) and/or the Environmental Abatement Council of Canada (EACC) *Lead Guideline* (October 2014). For additional details, refer to Section 2.1.2 (Results) and Section 3.1.2 (Conclusions and Recommendations). Lead-containing wastes should be recycled if practicable or handled and disposed of according to R.R.O. 1990, Regulation 347, *General- Waste Management.*
Mercury	Sources of mercury were observed in the subject area and include the following: - vapour in fluorescent lamps	If required, handle lamps with care and keep intact. All waste lamps are recommended to be sent to a lamp recycling facility.
Silica	Building materials identified that are suspected to contain crystalline silica and may be disturbed as part of the planned construction project include: - plaster - drywall/drywall joint compound - concrete - mortar - sprayed fireproofing	Any work involving the disturbance of silica-containing materials should follow the procedures outlined in the Ontario Ministry of Labour, Immigration, Training and Skills Development *"Silica on Construction Projects"* guideline. For additional information, refer to Section 2.1.4 (Results) and Section 3.1.4 (Conclusions and Recommendations). **Materials that contain crystalline silica that were also identified to be asbestos-containing must be removed/disturbed in accordance with Ontario Regulation 278/05 *Designated Substance – Asbestos on Construction Projects and in Building and Repair Operations.***
Other Designated Substances	No other designated substances are expected to be present in any significant quantities or in a form that would represent an exposure concern.	No protective measures or procedures specific to acrylonitrile, arsenic, benzene, coke oven emissions, ethylene oxide, isocyanates, and vinyl chloride are considered necessary.
Other Hazardous Materials	**Findings**	**Recommendations**
Urea Formaldehyde Foam Insulation	No UFFI was identified or is suspected in the subject area.	No action required.
Mould Contamination	No suspect mould contamination was observed on building finishes in the subject area.	No action required.

Pest Infestation	No pest infestations were observed in the areas assessed.	No action required.
Polychlorinated Biphenyls	Fluorescent light ballasts are assumed to contain PCB's.	PCB-containing ballasts should be removed, separated from other waste and disposed of as PCB waste at an authorized destruction facility.
Ozone Depleting and Global Warming Substances	No equipment was observed that is suspected to contain ozone depleting and/or global warming substances	No action required.

This assessment satisfies the Owner's requirements under Section 30 of the Ontario Occupational Health and Safety Act (OHSA), Revised Statutes of Ontario 1990, as amended.

Should you have any questions regarding the information contained in the report, please contact our office.

Safetech Environmental Limited

Anthony J. Fiume, BA
Project Coordinator

October 27, 2022

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Attention: Christian Simionescu M.Arch, OAA
Project Manager, Facilities Planning & Development

RE: Designated Substances and Hazardous Materials Assessment
Renovation Project
Centre for Addiction and Mental Health (CAMH)
Ground, 7th, 9th, 10th and 11th Floors
250 College Street, Toronto, Ontario

1.0 INTRODUCTION

1.1 Background and Objectives

Safetech Environmental Limited (Safetech) was commissioned by Centre for Addiction and Mental Health (CAMH) to conduct a designated substances and hazardous materials assessment in project specific locations of the Ground, 7th, 9th, 10th and 11th Floors at 250 College Street, Toronto, Ontario (subject area). The objective of the assessment was to determine the presence, location, condition and quantities of designated substances and other hazardous materials in the subject area that have the potential to be disturbed as part of planned construction activities (i.e. Renovation Project) so that appropriate control measures can be implemented to protect workers during the work.

This assessment satisfies the Owner's requirements under Section 30 of the Ontario Occupational Health and Safety Act (OHSA), Revised Statutes of Ontario 1990, as amended. Section 30(1) requires a building owner to determine if there are any designated substances present at a project site prior to construction or demolition activities. Sections 30(2), (3) and (4) require the Owner and constructors for a project to provide the findings in this report as part of the tendering information for any tendered project or to prospective contractors (and subcontractors) of a project before entering into a binding contract.

This report documents findings of our on-site inspection that was conducted on October 14, 2022 and provides conclusions and recommendations based on our findings and knowledge of the planned construction project.

1.2 Scope of Work

In accordance with our fee proposal document, our scope of work included the following activities:

- A review of existing documents, including renovation documents and drawings, floor plans and existing environmental assessment reports, etc., where available;
- A visual assessment of accessible area(s) in the subject area to identify the presence, location, condition and quantities of designated substances and other hazardous materials;
- Collection, analysis and interpretation of representative bulk samples of suspect asbestos-containing building materials for the determination of asbestos content and material classification;
- Collection, analysis and interpretation of representative paint chip samples for the determination of lead content; and
- Preparation of a report to document findings and provide recommendations regarding control measures and/or special handling procedures for designated substances or specific hazardous materials that may be disturbed as part of planned construction activities.

Documents reviewed to aid in the assessment included the following:

- "Reassessment Survey of Asbestos-Containing Materials" for 250 College Street, Toronto, Ontario dated March 22, 2022
- Project Specific Floor Plans for the Ground Floor, 7th Floor, 9th Floor, 10th Floor and 11th Floor

This assessment only identified designated substances and hazardous materials that were deemed to be part of the building or somehow otherwise incorporated into the building structure and its finishes. **The following items were not included in our scope of work:**

- Assessing occupant items such as stored products, furnishings, items and materials used or produced as part of a manufacturing process;
- Investigating underground materials or equipment (vessels, drums, underground storage tanks, duct-banks, pipes, or cables);
- Assessing enclosed wall or ceiling cavities; and
- Assessing risers, pipe chases or elevator shafts.

1.3 Description of Area(s) Assessed

The area(s) investigated included all accessible project specific locations of the ground floor, 7th floor, 9th floor, 10th floor and 11th floor. The extent of the area investigated is indicated on the floor plan(s) provided in Appendix B. Please not the following areas were note accessible during the assessment:

- G115C
- G150
- G141
- G168B
- G186

2.0 RESULTS

Results of our visual assessment and bulk sample analytical findings are summarized in the sections below.

2.1 Designated Substances

2.1.1 Asbestos

Results of bulk sample analysis for the determination of asbestos content are summarized in the following table. Materials have been classified as “ACM”, “Non-ACM”, “Suspected ACM” or “Presumed Non-ACM” based on analytical results. Materials classified as Suspected ACM or Presumed Non-ACM may require further analysis (depending on site-specific conditions) to verify whether the material should be classified as ACM or Non-ACM. Please refer to the Limitations section of this report (Section 4.0) for additional details. The Laboratory Certificate of Analysis is included in Appendix C.

Table 2*:* Bulk Sample Analytical Results for Determination of Asbestos Content

Sample No.	Material Description	Sample Location	Asbestos Content	Material Classification
1a	Drywall Joint Compound	Ground Floor Waiting Area Adjacent G156	None Detected	Non-ACM
1b		G115B		
1c		Open Table Area by G108A		
1d		G144A		
1e		G176		
1f		G189		
1g		Corridor by G200		

Sample No.	Material Description	Sample Location	Asbestos Content	Material Classification
2a	**Plaster**	**G168A**	**None Detected**	**ACM**
2b		**G140**		
2c		**G7**		
2d		**Corridor by G13**	**1% Chrysotile**	
2e		**Corridor by G13**	**Positive Stop**	
2f		**964**		
2g		**940**		
3a	Mastic Beneath Vinyl Sheet Flooring	G175	None Detected	Non-ACM
3b				
3c				
4a	Yellow Vinyl Sheet Flooring	G149A	None Detected	Non-ACM
4b				
4c				
5a	Blue Vinyl Sheet Flooring	G181	None Detected	Non-ACM
5b				
5c				
6a	12”x12” Cream with Streak Vinyl Floor Tile	958	None Detected	Non-ACM
6b				
6c				
7a	**12”x12” Light Beige with Red Streak Vinyl Floor Tile**	**903**	**2% Chrysotile**	**ACM**
7a	Mastic	903	None Detected	Non-ACM
7b	**12”x12” Light Beige with Red Streak Vinyl Floor Tile**	**G26**	**Positive Stop**	**ACM**
7b	Mastic	G26	None Detected	Non-ACM
7c	**12”x12” Light Beige with Red Streak Vinyl Floor Tile**	**934**	**Positive Stop**	**ACM**
7c	Mastic	934	None Detected	Non-ACM
8a	12”x12” Grey with Black Streak Vinyl Floor Tile	932	None Detected	Non-ACM
8b				
8c				
9a	12”x12” Light Beige with Grey Speck Vinyl Floor Tile	Corridor by 938	None Detected	Non-ACM
9b				
9c				
10a	12”x12” Light Beige with Brown Speck Vinyl Floor Tile	Corridor Adjacent G136A	None Detected	Non-ACM
10b				
10c				

Sample No.	Material Description	Sample Location	Asbestos Content	Material Classification
11a	12”x12” Dark Grey with Brown Speck Vinyl Floor Tile	Corridor Adjacent G135	None Detected	Non-ACM
11a	Mastic			
11a	Leveler			
11b	12”x12” Dark Grey with Brown Speck Vinyl Floor Tile			
11b	Mastic			
11c	12”x12” Dark Grey with Brown Speck Vinyl Floor Tile			
11c	Mastic			
11c	Leveler			
12a	12”x12” White with Grey Speck Vinyl Floor Tile	Corridor by G12	None Detected	Non-ACM
12a	Mastic			
12b	12”x12” White with Grey Speck Vinyl Floor Tile			
12b	Mastic			
12c	12”x12” White with Grey Speck Vinyl Floor Tile			
13a	12”x12” Blue with White Streak Vinyl Floor Tile	G26 Beneath Filing Cabinets	None Detected	Non-ACM
13b				
13c				
14a	Grey Vinyl Sheet Flooring	G175	None Detected	Non-ACM
14b				
14c				
15a	2’x2’ Deep Fissure / Pinhole Lay-In Ceiling Tile	939	None Detected	Non-ACM
15b				
15c				
16a	2’x2’ Fissure / Pinhole Lay-In Ceiling Tile	G208	None Detected	Non-ACM
16b				
16c				
17a	Long Width-Wise Fissure / Hole Lay-In Ceiling Tile	958	None Detected	Non-ACM
17b				
17c				
18a	Pinhole / Small Fissure Lay-In Ceiling Tile	G189	None Detected	Non-ACM
18b				
18c				

Sample No.	Material Description	Sample Location	Asbestos Content	Material Classification
19a	Pinhole / Small Hole Lay-In Ceiling Tile	G26	None Detected	Non-ACM
19b				
19c				
20a	Grey Fluffy Sprayed Fireproofing	G26	None Detected	Non-ACM
20b				
20c				
21a	Green Fluffy Sprayed Fireproofing	G189	None Detected	Non-ACM
21b				
21c				
22a	**Texture Coat / Stucco Ceiling**	**9th Floor Elevator Lobby**	**5% Chrysotile**	**ACM**
22b			**Positive Stop**	
22c				
23a	**Parging on Fitting**	**Drain Pipe – G26**	**60% Chrysotile**	**ACM**
23b			**Positive Stop**	
23c				
24a	Sweat Wrap	Drain Pipe – G26	None Detected	Non-ACM
24b				
24c				
25a	12”x12” Light Blue w Blue and White Speck Vinyl Floor Tile	732	None Detected	Non-ACM
25b				
25c				
26a	12”x12” White with Grey Streak Vinyl Floor Tile	731	None Detected	Non-ACM
26b				
26c				
27a	12”x12” Beige with Long Brown Streak Vinyl Floor Tile	1146	None Detected	Non-ACM
27b				
27c				
28a	2’x2’ Rough Lay-In Ceiling Tile	1028	None Detected	Non-ACM
28b				
28c				
29a	12”x12” White with Thick Black Streak Vinyl Floor Tile	1028	None Detected	Non-ACM
29a	Mastic			
29b	12”x12” White with Thick Black Streak Vinyl Floor Tile			
29b	Mastic			
29c	12”x12” White with Thick Black Streak Vinyl Floor Tile			
29c	Mastic			

Sample No.	Material Description	Sample Location	Asbestos Content	Material Classification
30a	12”x12” Beige with Brown Smudge Vinyl Floor Tile	1008	None Detected	Non-ACM
30b				
30c				

As per O.Reg. 278/05, ACM contains ≥0.5% asbestos by dry weight.

Materials assessed for asbestos content are summarized in the following table based on the type/use of the material.

Table 3: Results of Assessment for Asbestos-Containing Materials

Sprayed and Loose Fill Insulating Materials	Location/Description	
Grey Fluffy Sprayed Fireproofing	Grey fluffy sprayed fireproofing was observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 20 in Table 2.	
Green Fluffy Sprayed Fireproofing	Green fluffy sprayed fireproofing was observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 21 in Table 2.	
Original Sprayed Fireproofing	**Asbestos-containing sprayed fireproofing original to the building is assumed to be present above metal pan ceiling tiles, above solid ceilings and/or within false ceiling spaces.** Refer to the “Reassessment Survey of Asbestos-Containing Materials” for 250 College Street, Toronto, Ontario dated March 22, 2022 for additional details and the location, condition, friability, and estimated quantity in Appendix A.	No Picture Available.
Sprayed Insulation	None identified in subject area.	
Loose Fill / Vermiculite Insulation	None identified in subject area. Interior portions of concrete block walls could not be assessed. However, it is not expected that these walls are insulated with loose fill or vermiculite insulation	

Thermal System Insulation	Location/Description	
Sweat Wrap	Sweat wrap was observed on pipe straights in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 24 in Table 2.	
Parging Cement on Fittings	**Parging cement on pipe fittings was observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material contains 60% chrysotile asbestos. Refer to sample set 23 in Table 2 and the location, condition, friability, and estimated quantity in Appendix A.**	
Duct Insulation	**Asbestos-containing duct insulation has previously been identified in the subject building and may be present above metal pan ceiling tiles, above solid ceilings and/or within false ceiling spaces.** Refer to the "Reassessment Survey of Asbestos-Containing Materials" for 250 College Street, Toronto, Ontario dated March 22, 2022 for additional details and the location, condition, friability, and estimated quantity in Appendix A.	No Picture Available.
Breeching / Exhaust Insulation	None identified in subject area.	
Tank Insulation	None identified in subject area.	
Boiler Insulation	None identified in subject area.	
Other Mechanical Equipment Insulation	None identified in subject area.	

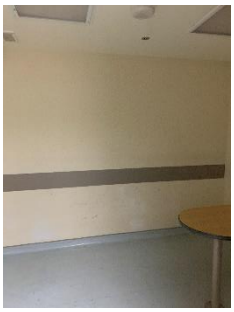
Architectural Finishes & Finishing Materials	Location/Description	
Texture Coat / Stucco	**Texture coat / stucco ceiling was observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material contains 5% chrysotile asbestos. Refer to sample set 22 in Table 2 and the location, condition, friability, and estimated quantity in Appendix A.**	
Plaster Finishes	**Plaster finishes were observed throughout the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material contains 1% chrysotile asbestos. Refer to sample set 2 in Table 2 and the location, condition, friability, and estimated quantity in Appendix A.**	
Drywall Joint Compound (Ground Floor)	Drywall joint compound was observed throughout project specific locations of the ground floor. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 1 in Table 2.	
Drywall Joint Compound (Floors 7, 9, 10 and 11)	**Asbestos-containing drywall joint compound has previously been identified on floors 7, 9, 10 and 11. Therefore, drywall joint compound associated with drywall finishes throughout floors 7, 9, 10 and 11 is considered to be asbestos-containing.** Refer to the "Reassessment Survey of Asbestos-Containing Materials" for 250 College Street, Toronto, Ontario dated March 22, 2022 for additional details and the location, condition, friability, and estimated quantity in Appendix A.	

Ceiling Tiles	Location/Description	
2'x2' Deep Fissure / Pinhole Lay-in Acoustic Ceiling Tiles	2'x2' deep fissure / pinhole lay-in ceiling tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 15 in Table 2.	
2'x2' Fissure / Pinhole Lay-in Acoustic Ceiling Tiles	2'x2' fissure / pinhole lay-in ceiling tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 16 in Table 2.	
Long Width-Wise Fissure / Hole Lay-in Acoustic Ceiling Tiles	Long width-wise fissure / hole lay-in ceiling tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 17 in Table 2.	
Pinhole / Small Fissure Lay-in Acoustic Ceiling Tiles	Pinhole/ small fissure lay-in ceiling tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 18 in Table 2.	
Pinhole / Small Hole Lay-in Acoustic Ceiling Tiles	Pinhole/ small hole lay-in ceiling tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 19 in Table 2.	

2'x2' Rough Lay-in Acoustic Ceiling Tiles	2'x2' rough lay-in ceiling tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 28 in Table 2.	
Glued-on Acoustic Ceiling Tiles	None identified in subject area.	
2'x2' Transite Cement Ceiling Panels	**2'x2' transite cement ceiling panels were observed in the subject area. This material could not be sampled however this material is known to be asbestos-containing.** Refer to the "Reassessment Survey of Asbestos-Containing Materials" for 250 College Street, Toronto, Ontario dated March 22, 2022 for additional details and the location, condition, friability, and estimated quantity in Appendix A.	
Flooring	**Location/Description**	
12"x12" Cream with Streak Vinyl Floor Tiles	12"x12" cream with streak vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 6 in Table 2.	
12"x12" Light Beige with Red Streak Vinyl Floor Tile	**12"x12" light beige with red streak vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material contains 2% chrysotile asbestos. Refer to sample set 7 in Table 2 and the location, condition, friability, and estimated quantity in Appendix A.**	

12”x12” Grey with Black Streak Vinyl Floor Tiles	12”x12” grey with black streak vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 8 in Table 2.	
12”x12” Light Beige with Grey Speck Vinyl Floor Tiles	12”x12” light beige with grey speck vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 9 in Table 2.	
12”x12” Light Beige with Brown Speck Vinyl Floor Tiles	12”x12” light beige with brown speck vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 10 in Table 2.	
12”x12” Dark Grey with Brown Speck Vinyl Floor Tiles	12”x12” dark grey with brown speck vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 11 in Table 2.	
12”x12” White with Grey Speck Vinyl Floor Tiles	12”x12” white with grey speck vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 12 in Table 2.	

12”x12” Blue with White Streak Vinyl Floor Tiles	12”x12” blue with white streak vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 13 in Table 2.	
12”x12” Light Blue with White Speck Vinyl Floor Tiles	12”x12” light blue with white speck vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 25 in Table 2.	
12”x12” White with Grey Streak Vinyl Floor Tiles	12”x12” white with grey streak vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 26 in Table 2.	
12”x12” Beige with Long Brown Streak Vinyl Floor Tiles	12”x12” beige with long brown streak vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 27 in Table 2.	
12”x12” White with Thick Black Streak Vinyl Floor Tiles	12”x12” white with thick black streak vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 29 in Table 2.	

12”x12” Beige with Brown Smudge Vinyl Floor Tiles	12”x12” beige with brown smudge vinyl floor tiles were observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 30 in Table 2.	
Yellow Vinyl Sheet Flooring	Yellow vinyl sheet flooring was observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 4 in Table 2.	
Blue Vinyl Sheet Flooring	Blue vinyl sheet flooring was observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 5 in Table 2.	
Grey Vinyl Sheet Flooring	Grey vinyl sheet flooring was observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 14 in Table 2.	
Mastic Beneath Vinyl Sheet Flooring	Mastic associated with vinyl sheet flooring was observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample set 3 in Table 2.	

Vinyl Floor Tile Mastic	Mastic associated with vinyl floor tiles was observed in the subject area. Bulk samples were collected during the assessment and results of analysis confirmed that this building material is not asbestos-containing. Refer to sample sets 7, 11 and 12 in Table 2.	
Asbestos Cement Products	**Location/Description**	
Piping	None identified in subject area.	
Roofing, Siding, Wallboard	None identified in subject area.	
Other Cement Products	None identified in subject area.	

2.1.2 Lead

Laboratory analytical results for paints tested to determine lead content are summarized in the following table. The Laboratory Certificate of Analysis is included in Appendix D. Refer to Section 3.1.2 of this report for recommended lead abatement procedures (if any) that correspond to the type of proposed construction, renovation, or demolition work.

Table 4: Results of Paint Condition and Lead Content Assessment

Sample No.	Location	Surface	Paint Colour	Condition	Lead Conc. (% by wt.)	Material Classification
L1	Waiting Area by G189	Drywall	Beige	Good	<0.0081	NLC
L2	Corridor Adjacent 939	Drywall	Beige	Good	0.084	LLLP
L3	1047	Plaster	Blue	Good	<0.0081	NLC
L4	Corridor Adjacent 1012	Plaster	Beige	Good	0.084	LLLP

LCP: Lead-Containing Material: ≥ 0.1% Lead Content
LLLP: Low-Level Lead-Containing Materials: 0.009 to 0.1% Lead Content
NLC: Not Lead-Containing: <0.009% Lead Content

Suspect lead-containing materials observed in the subject area included the following:

- paints and surface coatings (not sampled)
- batteries associated with emergency lighting

- solder in copper pipe fittings
- solder in electrical components

2.1.3 Mercury

Mercury is present in the subject area in the form of:

- vapour in fluorescent lamps

2.1.4 Silica

A number of building materials were identified in the subject area that are ***suspected to contain crystalline silica***. This includes the following materials:

- plaster
- drywall/drywall joint compound
- concrete
- mortar
- sprayed fireproofing

2.1.5 Other Designated Substances

Acrylonitrile, arsenic, benzene, coke oven emissions, ethylene oxide, isocyanates, and vinyl chloride were not included in the assessment as these substances are not expected to be a significant component of building materials or present in a form that would represent an exposure concern. Additionally, no specific information regarding their use was provided to us.

2.2 Other Hazardous Materials

2.2.1 Chemical Hazards

No visible evidence of UFFI installation (i.e. injection openings) or overspray of foam insulation at wall/ceiling joints was identified in the subject area.

2.2.2 Biological Hazards

2.2.2.1 Mould Contamination

There was no visible evidence of obvious mould growth on building finishes in the subject area at the time of the assessment. In addition, there was no visible evidence of any significant water staining or discolouration to building finishes in the subject area that would suggest the potential for hidden mould growth behind these finishes.

2.2.2.2 Pest Infestation

There was no visible evidence of a pest infestation in the subject area.

2.2.3 Environmental Hazards

2.2.3.1 Polychlorinated Biphenyls (PCBs)

Approximately five-hundred (500) fluorescent light fixtures were identified in the subject area. These were noted to be a mixture of four-foot, two-lamp and four-lamp fixtures. Most of the lamps were noted to be T12; however, some of the four-lamp fixtures were noted to be retrofitted with newer T8 lamps. These lights could not be accessed for further evaluation to determine the type(s) of ballasts present and therefore the ballasts within these lights are assumed to contain PCBs.

2.2.3.2 Ozone Depleting and Global Warming Substances

No fixed equipment suspected to contain ODS/GWS was observed in the subject area.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Designated Substances

3.1.1 Asbestos

Results of the assessment indicated that the following asbestos-containing materials are present in the subject area that may be disturbed as part of the construction project.

- drywall joint compound
- plaster
- vinyl floor tiles
- texture coat / stucco
- parging cement on pipe fittings
- duct insulation
- sprayed fireproofing
- transite cement ceiling panels

Refer to Appendix A (Summary of ACM Occurrences) and Appendix B (Site Drawings) for types, locations, estimated quantities, and condition of asbestos-containing materials identified in the subject area.

Removal or disturbance of identified asbestos-containing materials must be conducted in accordance with O.Reg. 278/05. Asbestos containing materials in Poor condition must be removed and/or repaired immediately following applicable asbestos abatement procedures. Asbestos-containing materials in Good condition can remain in place until major system upgrading, maintenance or demolition which could result in disturbance of this material.

Texture Coat / Stucco Ceiling: Texture coat / stucco ceiling identified to be asbestos-containing is recommended to be treated as friable ACM since disturbance of this material typically results in significant degradation and subsequent dust/debris generation that cannot be adequately controlled through wetting. Therefore, removal or disturbance of 1

square metre or less of texture coat / stucco ceiling should be conducted following Type 2 operations. If more than 1 square metre of texture coat / stucco ceiling is to be removed or disturbed then work should be conducted following Type 3 operations.

Plaster Finishes: Plaster finishes identified to be asbestos-containing is recommended to be treated as friable ACM since disturbance of this material typically results in significant degradation and subsequent dust/debris generation that cannot be adequately controlled through wetting. Therefore, removal or disturbance of 1 square metre or less of plaster finishes should be conducted following Type 2 operations. If more than 1 square metre of plaster finishes is to be removed or disturbed then work should be conducted following Type 3 operations.

12"x12" Light Beige with Red Streak Vinyl Floor Tiles: The 12"x12" light beige with red streak vinyl floor tile is considered to be a non-friable ACM. As per O. Reg. 278/05, removal of non-friable ACM can be conducted following Type 1 operations; as long as the material can be removed without being broken, cut, drilled or otherwise similarly disturbed. If the material cannot be removed without it breaking or being similarly disturbed then the work should be conducted using non-powered hand tools and the material should be wetted to control the spread of dust. If the material cannot be wetted or if power tools attached to dust-collecting devices equipped with HEPA (high efficiency particulate aerosol) filters are used during removal or disturbance, then work should be performed following Type 2 operations. If non-friable materials are removed or disturbed using power tools that are not attached to dust-collecting devices that are equipped with HEPA filters then work should be conducted following Type 3 operations.

2'x2' Transite Cement Ceiling Panels: The 2'x2' transite cement ceiling panels are considered to be a non-friable ACM. As per O. Reg. 278/05, removal of non-friable ACM can be conducted following Type 1 operations; as long as the material can be removed without being broken, cut, drilled or otherwise similarly disturbed. If the material cannot be removed without it breaking or being similarly disturbed then the work should be conducted using non-powered hand tools and the material should be wetted to control the spread of dust. If the material cannot be wetted or if power tools attached to dust-collecting devices equipped with HEPA (high efficiency particulate aerosol) filters are used during removal or disturbance, then work should be performed following Type 2 operations. If non-friable materials are removed or disturbed using power tools that are not attached to dust-collecting devices that are equipped with HEPA filters then work should be conducted following Type 3 operations.

Parging Cement on Fittings: The parging cement on fittings is considered to be a friable ACM. As per O. Reg. 278/05, removal or disturbance of 1 square metre or less of friable ACM is classified as a Type 2 operation. If more than 1 square metre of friable ACM is to be removed or disturbed then work should be conducted following Type 3 operations; unless the material is removed using a glove bag, in which case Type 2 operations are applicable.

Duct Insulation: The duct insulation is considered to be a friable ACM. As per O. Reg. 278/05, removal or disturbance of 1 square metre or less of friable ACM is classified as a Type 2 operation. If more than 1 square metre of friable ACM is to be removed or disturbed then work should be conducted following Type 3 operations; unless the material is removed using a glove bag, in which case Type 2 operations are applicable.

Original Sprayed Fireproofing: Original sprayed fireproofing is considered to be a friable ACM. As per O. Reg. 278/05, removal or disturbance of 1.0 m^2 or less of friable ACM is classified as a Type 2 operation. If more than 1.0 m^2 of friable ACM is to be removed or disturbed, then work should be conducted following Type 3 operations. Given the presence of asbestos-containing sprayed fireproofing, it is cautioned that this material or related debris may be concealed on the surface of false ceilings. As such, access above a false ceiling where asbestos-containing sprayed fireproofing is present is classified as a Type 2 operation (full enclosure method for access). Similarly, asbestos-containing sprayed fireproofing debris may be present within wall cavities. Therefore, access within these spaces is recommended to be conducted following Type 2 operations as a precautionary measure. As required by O.Reg. 278/05, cleaning or removal of ventilation components including rigid ducting (excluding filters) in the buildings with asbestos-containing sprayed fireproofing must be conducted following Type 3 procedures. For buildings where asbestos-containing sprayed fireproofing has been identified, replacement of filters within the ventilation system (air handling units and fan coils) must be conducted as a Type 2 operation as per the requirements of O.Reg. 278/05.

Drywall Joint Compound: In accordance with O. Reg. 278/05, removal of less than 1 square metre of drywall where asbestos-containing drywall joint compound has been used can be conducted following Type 1 operations. If 1 square metre or more of drywall is removed where asbestos-containing drywall joint compound has been used then work should be conducted following Type 2 operations.

General Recommendations: The removal or disturbance of ACM must follow the measures and procedures indicated in O. Reg. 278/05. This work should be conducted by workers who have received proper training by a “competent person” in the hazards of asbestos exposure, personal hygiene and work practices, and the use and care of respirators and protective clothing. Any worker/supervisor who works in a Type 3 operation must successfully complete the Asbestos Abatement Worker or Supervisor Training Program approved by the Ministry of Training, Colleges and Universities. It is recommended that all work involving the removal or disturbance of ACM be subject to inspection and testing to document conformance with O. Reg. 278/05 requirements. The degree of inspection and testing is dependent on site-specific conditions such as the type, duration, size and location of the work. In most circumstances Type 3 operations require a visual inspection and clearance air testing to be conducted by a competent worker on completion of the work. The inspection should be conducted to ensure that the enclosure and the work area inside the enclosure are free from visible dust, debris or residue that may contain asbestos. Clearance air testing for Type 3 operations requires a minimum number of air samples to be taken (depending on the size of the work area) following

specific sampling and analytical procedures and all samples taken must meet the clearance criteria set out in O. Reg. 278/05.

3.1.2 Lead

Results of paint chip analysis for the determination of lead content indicated that beige and blue paint contains a concentration of lead below the limit of detection (<0.0090%) and is not considered to be lead-containing. No lead related precautions are considered necessary for the removal or disturbance of this material.

Results of paint chip analysis for the determination of lead content indicated that beige paint associated with plaster is considered a 'low-level lead paint' (≤0.1% based on requirements of the Environmental Abatement Council of Canada (EACC) Lead Guideline (2014)). If the 'low-level lead paint' is disturbed in a non-aggressive manner (no use of power tools/abrasive blasting, grinding, welding, heating, etc.), then respirators are not considered necessary. However, Class 1 measures and procedures should still be implemented during the non-aggressive disturbance of 'low-level lead paints', including, but not limited to, no smoking, eating, drinking and chewing gum in the work area; dust suppression methods must be implemented; and facilities must be made available so that workers can wash their hands and face.

Paints and surface coatings not sampled are assumed to be lead-containing (>0.1% lead content) in the subject area. Any disturbance of the lead-containing paints or surface coatings should be conducted in accordance with the procedures outlined in the Environmental Abatement Council of Canada (EACC) "Lead Guideline" (October 2014) and/or the Ontario Ministry of Labour, Immigration, Training and Skills Development (MLITSD) "Lead on Construction Projects" guideline (April 2011). The extent of procedures required depends on the type of work to be conducted.

Emergency lighting is present on perimeter walls in the subject area and are suspected to contain lead-acid batteries. If emergency lighting is removed/replaced as part of the scheduled work activities, the batteries are recommended to be sent to a recycling facility for proper treatment.

Additional suspect lead-containing products not anticipated to be disturbed during construction includes solder on pipe fittings and electrical components. Future testing of these materials and specific handling/disposal requirements may be necessary if/when these materials are to be disturbed.

At this time the method of disturbance, if any, of lead-containing materials is unknown. It is recommended that any contractor whose work requires lead-containing materials to be disturbed consult the EACC or Ontario MLITSD guidelines prior to the start of work to determine the Class/Type of operation(s) and the corresponding control measures (engineering controls, work/hygiene practices, protective clothing and equipment and worker training) necessary to conduct the work in a manner that will prevent worker

overexposure to lead. The following table outlines the classification of lead disturbance based on the EACC guideline.

Operation	Description
Class 1	1. Removal of lead-containing or lead-based paints and surface coatings with a chemical gel/stripper or paste; 2. Application of lead-containing or lead-based paints and surface coatings with a brush, roller or sponge. 3. Installation or removal of lead sheeting or flashing. 4. Installation or removal of lead-containing packing, babbitt, caulking, gasket or similar material. 5. Removal of materials coated with lead-containing or lead-based paints and surface coatings, using non-powered hand tools, where the material remains chiefly intact and is not crumbled, pulverized or powdered. 6. Operating construction or demolition equipment (e.g. excavator, bulldozer) during building renovation or demolition where lead-based paints or surface coatings are present on building materials and are being disturbed. 7. Soldering with lead solder. 8. Removing lead-containing or lead-based paints or surface coatings with a heat gun. 9. Removing lead-containing and lead-based paints and surface coatings using a high-pressure water jet (e.g. pressure washer).
Class 2a	1. Removal of lead-containing or lead-based paints and surface coatings or lead-containing materials using a power tool that has an effective dust collection system equipped with a HEPA filter*. 2. Welding, torching or high temperature cutting of lead-containing materials indoors when using an effective fume collector or smoke eater that filters and exhausts lead fume and expels it directly outdoors (away from occupants, entrances, walkways, rest areas, etc.). Fume collector or smoke eater must have effective source control and capture velocity, minimum of 0.5 metres per second (100 feet per minute) at the work surface. 3. Welding, torching or high temperature cutting of lead-containing and lead-based paints and surface coatings or lead-containing materials outdoors. 4. Removal of lead-containing mortar using handheld non-powered tools. 5. Removal of lead-containing and lead-based paints and surface coatings or lead-containing materials by scraping or sanding (including wet sanding) using non-powered hand tools. 6. Demolition of plaster or building components that crumble, pulverize or powder and are covered with lead-containing or lead-based paints or surface coatings. 7. Clean up and removal of a significant amount of lead-containing dust and debris (that can be made easily airborne) using wet methods or HEPA vacuums.
Class 2b	1. Spray application of lead-containing paints and surface coatings

Operation	Description
Class 3a	1. Removal of lead-containing or lead-based paints and surface coatings or lead-containing materials using a power tool without an effective dust collection system equipped with a HEPA filter. 2. Welding, torching or high temperature cutting of lead-containing materials indoors or in a confined space (e.g. within a ditch or pit). 3. Removal of lead-containing mortar using a powered cutting device. 4. Burning of a material containing lead. 5. Removal, cleaning or repair of a ventilation system or ductwork used for controlling lead exposure. 6. Spray application of lead-based paints and surface coatings. 7. In the absence of an exposure assessment: a. demolition or cleanup of a facility where lead-containing products were manufactured and significant dust and debris, which can be made easily airborne, is present. b. cleanup of dust and debris down range of a firing station in an indoor firing range.an operation that may expose a worker to lead dust, fume or mist that is not a Class 1, Class 2, or Class 3B operation.
Class 3b	1. Abrasive blasting of lead-containing and lead-based paints and surface coatings or lead-containing materials (including wet, slurry and dry abrasive blasting and dry-ice blasting).

* Effective implies that the dust collection system should be capable of controlling airborne lead concentration levels to below 0.05 mg/m^3. Employers should follow manufacturer's recommendations and maintenance specifications for optimal function.

If practicable, all bulk lead waste materials should be separated from other wastes and sent to a recycling facility. If not practicable, lead-containing waste should be handled and disposed of according to R.R.O. 1990, Regulation 347, *General - Waste Management* (Reg. 347) made under the Environmental Protection Act. Under this regulation (and depending on the quantity of waste generated) the waste may be subject to analysis following the Toxicity Characteristic Leaching Procedure (TCLP) to determine if it is a “leachate toxic waste” based on the leachate quality criteria provided in Schedule 4 of the regulation. Such wastes must meet specific treatment requirements (Schedule 5) or undergo alternative treatment for hazardous debris (Schedule 8) prior to land disposal.

3.1.3 Mercury

Fluorescent lamps that require removal should be handled with care and kept intact to avoid potential exposure to mercury vapour present within the lamps. Under Reg. 347, waste mercury produced in amounts less than 5 kilograms (kg) in any month or otherwise accumulated in an amount less than 5 kg are exempt from hazardous waste registration, treatment and disposal requirements and can be disposed of in landfill as regular waste. Larger quantities of waste mercury must be treated and disposed of in accordance with the requirements of Reg. 347. To prevent the release of mercury into the environment, Safetech recommends that all waste lamps be sent to a lamp recycling facility and not disposed of in landfill.

Although no mercury was visibly identified in other equipment, dismantling of equipment was not conducted to verify the presence/absence of mercury. It is cautioned that

thermometers, barometers and other measuring devices (pressure gauges/sensors, vacuum gauges, manometers, etc.), thermostats and a variety of other electrical switches (temperature sensitive, tilt switches, float switches, etc.) may contain mercury that may not be visible without dismantling the equipment. Such devices should be assumed to contain mercury until proven otherwise and similar precautions to those outlined above should be taken if any of these items are to be disturbed or taken out of service in the future.

3.1.4 Silica

Suspect silica-containing materials were identified to be present in the subject area. In their current state, building materials containing silica do not represent a risk to building occupants or construction workers. Risks associated with exposure to silica arise during demolition activities that cause silica dust to be created (particularly grinding, drilling or cutting operations and during major demolition), resulting in a crystalline silica inhalation hazard.

If any materials suspected to contain silica are to be removed or otherwise disturbed as a result of renovation/demolition activities it is recommended that procedures be put in place to control the generation of dust (such as routine water misting) and thus reduce the potential for worker exposure. Workers that have the potential to be exposed to airborne silica should also wear appropriate protective clothing and respiratory protection.

Any work involving the disturbance of silica-containing materials should follow the procedures outlined in the Ontario MLITSD “Silica on Construction Projects” guideline (April 2011). The appropriate engineering controls, work practices, hygiene practices, personal protective measures and training necessary to conduct the work in a safe manner are provided in this guideline. The general measures and procedures (or Type of operation) necessary depends on the type of work to be conducted. The following table outlines the classification of silica disturbance based on the Ontario MLITSD guideline.

Operation	Description
Type 1	1. The drilling of holes in concrete or rock that is not part of a tunneling operation or road construction. 2. Milling of asphalt from concrete highway pavement 3. Charging mixers and hoppers with silica sand (sand consisting of at least 95% silica) or silica flour (finely ground sand consisting of at least 95% silica) 4. Any other operation at a project that requires the handling of silica-containing material in a way that may results in a worker being exposed to airborne silica. 5. Entry into a dry mortar removal or abrasive blasting area while airborne dust is visible for less than 15 minutes for inspection and/or sampling. 6. Working within 25 metres of an area where compressed air is being used to remove silica-containing dust outdoors.
Type 2	1. Removal of silica containing refractory materials with a jackhammer 2. The drilling of holes in concrete or rock that is part of a tunneling or road construction. 3. The use of a power tool to cut, grind, or polish concrete, masonry, terrazzo or refractory materials. 4. The use of a power tool to remove silica containing materials. 5. Tunneling (operation of the tunnel boring machine, tunnel drilling, and tunnel mesh installation). 6. Tuckpoint and surface grinding 7. Dry mortar removal with an electric or pneumatic cutting device 8. Dry method dust cleanup from abrasive blasting operations 9. The use of compress air outdoors for removing silica dust 10. Entry into area where abrasive blasting is being carried out for more than 15 minutes
Type 3	1. Abrasive blasting with an abrasive that contains >1% silica 2. Abrasive blasting or a material that contains >1% silica

3.1.5 Other Designated Substances

No other designated substances are expected to be a component of building materials in the subject area in a form that would represent an exposure concern. Therefore, no protective measures or procedures specific to acrylonitrile, arsenic, benzene, coke oven emissions, ethylene oxide, isocyanates, and vinyl chloride are considered necessary.

3.2 Other Hazardous Materials

3.2.1 Chemical Hazards

As no UFFI was identified or is suspected to be present in the subject area, no further action is required. However, given that no destructive testing was conducted, there is a remote possibility that UFFI could be hidden within locations such as exterior wall cavities. If suspect foam insulation is identified during renovation/demolition activities work should be stopped and the area should be re-assessed to evaluate conditions and determine appropriate control measures and worker protection, if necessary.

3.2.2 Biological Hazards

3.2.2.1 Mould Contamination

No mould contamination was identified in the subject area and no further action is required at this time. Although no obvious mould contamination or evidence to suggest possible hidden mould contamination was identified in the subject area, there is still a potential for hidden mould growth to exist behind or underneath building finishes. Should suspect mould growth be discovered during the course of renovation or demolition work, Safetech recommends that all work stop so that the area can be assessed to evaluate proper control measures and remediation protocols in order to avoid worker exposure to mould and possible contamination of adjacent areas.

3.2.2.2 Pest Infestation

No visual evidence of any significant pest infestation was observed in the subject area. Therefore, no additional precautionary measures are deemed necessary for protection against biological contaminants potentially associated with pest infestation.

3.2.3 Environmental Hazards

3.2.3.1 Polychlorinated Biphenyls (PCBs)

Existing fluorescent light ballasts are assumed to contain PCBs. When light fixtures are to be decommissioned, all ballasts should be verified at this time by determining the date of manufacture and other pertinent information by referring to the Environment Canada document entitled “Identification of Lamp Ballasts Containing PCBs” (Report EPS 2/CC/2 (revised) August 1991) to aid in identification. Any ballasts that meet the criteria outlined in this document must be treated as PCB containing.

Newer T8 lamps present in some of the fluorescent light fixtures indicate that a partial lighting retrofit has taken place. These newer T8 lamps use ballasts that do not contain PCBs. Therefore, light fixtures containing T8 lamps are not expected to contain PCB ballasts. However, it should be cautioned that since only the lamps were retrofitted (and not the entire light fixture) there is a potential for previous ballasts used with T12 lamps (which may contain PCBs) to be left in place. Therefore, should renovation/demolition work result in removal and disposal of existing fluorescent light fixtures containing T8 lamps it is still recommended that each fixture is individually assessed for the presence of PCB-containing ballasts and if discovered should be handled and disposed of accordingly as described above.

When PCB-containing equipment is taken out of service, jurisdiction falls under provincial regulations. As per R.R.O 1990, Regulation 347, *General - Waste Management*, the land disposal of PCB waste is prohibited. PCB wastes in Ontario are regulated under R.R.O 1990, Regulation 362, *Waste Management – PCBs* (Reg. 362), made under the Environmental Protection Act. Under this regulation, PCB waste is defined as any waste material containing PCBs at a concentration of more than fifty (50) parts per million by weight (i.e. >50mg/kg), with the exception of an electrical capacitor that has never

contained over 1 kg of PCB's. Any PCB-containing equipment taken out of service should be properly handled and disposed of at an authorized destruction facility in accordance with the requirements of Federal Regulation SOR/2008-273 and Reg. 362.

3.2.3.2 Ozone Depleting and Global Warming Substances

No equipment was identified in the subject area that is expected to contain ozone depleting or global warming substances. As such, no recommendations are considered necessary at this time.

4.0 LIMITATIONS

The information and recommendations detailed in this report were carried out by trained professional and technical staff in accordance with generally accepted environmental and industrial hygiene work practices and procedures. Recommendations provided in this report have been generated in accordance with accepted industry guidelines and practices. These guidelines and practices are considered acceptable as of the date of this report.

In preparation of this report, Safetech relied on information supplied by others, including without limitation, information pertaining to the history and operation of the site, test results and reports of other consultants and testing services provided by independent laboratories. Except as expressly set out in this report, Safetech has not made any independent verification of information provided by independent entities.

The collection of samples at the location noted was consistent with the scope of work agreed-upon with the person or entity to whom this report is addressed and the information obtained concerning prior site investigations. As conditions between samples may vary, the potential remains for the presence of unknown additional contaminants for which there were no known indicators.

The analytical method used for determination of asbestos content meets the requirements of O. Reg. 278/05. However, small asbestos fibres may be missed by PLM due to resolution limitations of the optical microscope. Interfering binder/matrix and/or low asbestos content may also hinder positive identification by PLM. These conditions are common for vermiculite attic insulation (VAI) and non-friable organically bound (NOB) materials such as vinyl floor tiles, roofing materials, mastics and caulking and can lead to "false negative" results. If PLM analytical results for these types of materials indicate no asbestos detected they have been reported as "Presumed Non-ACM". Due to limitations of the analytical method we cannot confirm that low quantities of asbestos are not present in these samples using solely PLM analysis. Additional analytical procedures should be considered for such materials to rule out false negative results.

Conclusions are based on site conditions at the time of inspection and can only be extrapolated to an undefined limited area around inspected locations. The extent of the limited area depends on building construction and conditions. Building materials that are

not detailed within this survey due to inaccessibility during the time of survey and/or are uncovered during renovation/demolition activities should be properly assessed by a qualified person prior to their disturbance. Safetech cannot warrant against undiscovered environmental liabilities. If any information becomes available that differs from the findings in this report, we request that we be notified immediately to reassess the conclusions provided herein.

No other person or entity is entitled to use or rely upon this report without the express written consent of Safetech and the person or entity to who it is addressed. Any use that a third party makes of this report, or any reliance based on conclusions and recommendations made, are the responsibility of such third parties. Safetech accepts no responsibility for damages suffered by third parties as a result of actions based on this report.

Appendix A: Summary of ACM Occurrences

Floor	Room No.	Room Description	System	Material	Description	Classification	Friable/ Non-Friable	Condition	Est. Quantity	Unit	Access	Action
G	G26	Refer to Appendix B for Locations	Floor	Vinyl Floor Tile	12"x12" light beige with red streak vinyl floor tile	ACM	Non-Friable	Good	300	SF	B	7
G	G26, G202	Refer to Appendix B for Locations	Pipe	Pipe Fitting Insulation	Parging cement on pipe fittings	ACM	Friable	Good	10	EA	C	7
G	Throughout	Refer to Appendix B for Locations	Ceiling	Sprayed Fireproofing	Sprayed fireproofing original to the building concealed within ceiling spaces	ACM	Friable	Not Applicable	Not Determined	N/A	E	7
G	Throughout	Throughout	Wall / Ceiling	Plaster	Plaster finishes throughout	ACM	Friable	Not Applicable	Not Determined	N/A	A	7
7	729A, 729, 728	Refer to Appendix B for Locations	Floor	Vinyl Floor Tile	12"x12" light beige with red streak vinyl floor tile	ACM	Non-Friable	Good	600	SF	B	7
7	Throughout	Throughout	Wall / Ceiling	Plaster	Plaster finishes throughout	ACM	Friable	Not Applicable	Not Determined	N/A	A	7
7	Throughout	Throughout	Wall / Ceiling	Drywall Joint Compound	Drywall joint compound associated with drywall finishes	ACM	Not Applicable	Not Applicable	Not Determined	N/A	A	7
9	902-913, 915-916, 918-931, 933, 939, 963-965	Refer to Appendix B for Locations	Floor	Vinyl Floor Tile	12"x12" light beige with red streak vinyl floor tile	ACM	Non-Friable	Good	6,200	SF	B	7
9	943, 947	Refer to Appendix B for Locations	Ceiling	Stucco/Texture	Texture coat / stucco ceiling	ACM	Friable	Good	500	SF	C	7
9	903	Refer to Appendix B for Locations	Ceiling	Cement Panels	2'x2' cement ceiling panels	ACM	Non-Friable	Good	150	SF	A	7
9	Throughout	Throughout	Wall / Ceiling	Plaster	Plaster finishes throughout	ACM	Friable	Not Applicable	Not Determined	N/A	A	7
9	Throughout	Throughout	Wall / Ceiling	Drywall Joint Compound	Drywall joint compound associated with drywall finishes	ACM	Not Applicable	Not Applicable	Not Determined	N/A	A	7
10	1002-1007, 1012, 1014-1015, 1019 1021, 1025-1026, 1029-1030, 1032-1033, 1035-1042, 1044-1045, 1046-1049, 1051, 1052	Refer to Appendix B for Locations	Floor	Vinyl Floor Tile	12"x12" light beige with red streak vinyl floor tile	ACM	Non-Friable	Good	6,200	SF	B	7
10	1043, 1053	Refer to Appendix B for Locations	Ceiling	Stucco/Texture	Texture coat / stucco ceiling	ACM	Friable	Good	500	SF	C	7
10	Throughout	Throughout	Wall / Ceiling	Plaster	Plaster finishes throughout	ACM	Friable	Not Applicable	Not Determined	N/A	A	7
10	Throughout	Throughout	Wall / Ceiling	Drywall Joint Compound	Drywall joint compound associated with drywall finishes	ACM	Not Applicable	Not Applicable	Not Determined	N/A	A	7
11	1102, 1144-1145	Refer to Appendix B for Locations	Floor	Vinyl Floor Tile	12"x12" light beige with red streak vinyl floor tile	ACM	Non-Friable	Good	600	SF	B	7

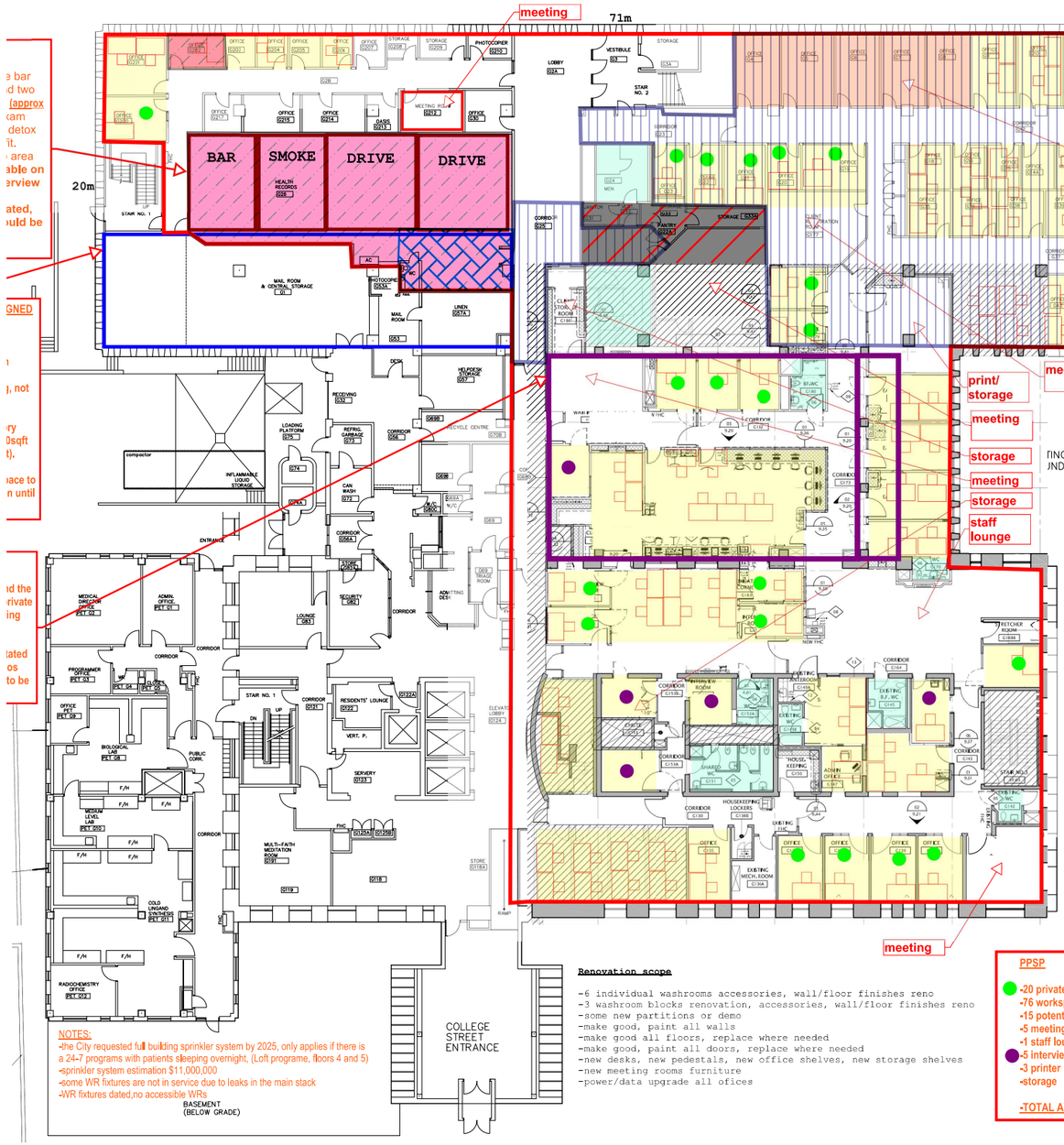
Appendix B: Site Drawings

LEGEND

- AREA ASSESSED
- NO ACCESS
- PIPE FITTING INSULATION (ACM)
- SPRAYED FIREPROOFING (ACM)
- VINYL FLOOR TILES (ACM)

12"X12" LIGHT BEIGE WITH RED STREAK VINYL FLOOR TILES THROUGHOUT ARE ASBESTOS-CONTAINING AND MAY BE PRESENT IN OTHER AREAS OR BENEATH FLOOR FINISHES

PLASTER FINISHES THROUGHOUT ARE ASBESTOS-CONTAINING



Renovation scope

-6 individual washrooms accessories, wall/floor finishes reno
-3 washroom blocks renovation, accessories, wall/floor finishes reno
-some new partitions or demo
-make good, paint all walls
-make good all floors, replace where needed
-make good, paint all doors, replace where needed
-new desks, new pedestals, new office shelves, new storage shelves
-new meeting rooms furniture
-power/data upgrade all ofices

Staff numbers Version 2
-Research office staff moved to QS

Space Category	Division/Department	Space Type Required at College	Total Staff
Office	Research	Private Office	30
9,10,11th floor		Workstation	57
	Subtotal		*87*
Ground floor	PSSP	Private Office	3
		Workstation	73
	Subtotal		*76*
9th floor	Health Equity	Private Office	1
		Workstation	10
	Subtotal		*11*
9th floor	Remedial Measures	Workstation	7
	Subtotal		*7*
9th floor	CAMH Association	Workstation	12
	Subtotal		*12*
7th floor	CCR Outpatient Services	Private Office	1
		Workstation	2
	Subtotal		*3*
9th floor	Communications & Partnerships	Private Office	1
	Subtotal		*1*
7th floor	TeleMental Health	Private Office	2
	Subtotal		*2*
9th floor	OPSEU	Private Office	1
	Subtotal		*1*
Total # of Staff			200

Staff numbers Version 1

Space Category	Division/Department	Space Type Required at College	Total Staff
Office	Research	Private Office	38
		Worxstation	88
	Subtotal		*126*
	PSSP	Private Office	3
		Worxstation	73
	Subtotal		*76*
	Health Equity	Private Office	1
		Worxstation	10
	Subtotal		*11*
	Remedial Measures	Worxstation	7
	Subtotal		*7*
	CAMH Association	Worxstation	12
	Subtotal		*12*
	CCR Outpatient Services	Private Office	1
		Worxstation	2
	Subtotal		*3*
	Communications & Partnerships	Private Office	1
	Subtotal		*1*
	TeleMental Health	Private Office	2
	Subtotal		*2*
	OPSEU	Private Office	1
	Subtotal		*1*
Total # of Staff			239

PPSP

- -20 private offices
- -76 workspaces (66 required)
- -15 potential workspaces at 252 College (the house)
- -5 meeting rooms
- -1 staff lounge w kitchenette
- -5 interview rooms (req quantity not specified)
- -3 printer
- -storage

- - 20 over/available on GF
- - 10 over/available on GF

-TOTAL AVAILABLE - 30 PRIVATE/WORKSPACES

1) THIS FLOOR PLAN MUST BE READ IN CONJUNCTION WITH THE DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS ASSESSMENT REPORT.
2) NOT ALL ASBESTOS-CONTAINING MATERIALS ARE INDICATED IN THE FLOOR PLAN. REFER TO THE DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS REPORT FOR FURTHER DETAILS.
3) REMOVAL OR DISTURBANCE OF ASBESTOS-CONTAINING BUILDING MATERIALS MUST BE CONDUCTED IN ACCORDANCE WITH ONTARIO REGULATION 278/05 "DESIGNATED SUBSTANCE - ASBESTOS ON CONSTRUCTION PROJECTS AND IN BUILDINGS AND REPAIR OPERATIONS".

GROUND FLOOR

RENOVATION PROJECT

250 COLLEGE STREET
TORONTO, ONTARIO

DRAWING NO.
DS-1

DATE: OCTOBER 14, 2022

SAFETECH PROJECT NO.
3220708

safeTECH ENVIRONMENTAL LTD.
3045 SOUTHCREEK RD, UNIT 14
MISSISSAUGA, ONTARIO
L4X 2X7

LEGEND

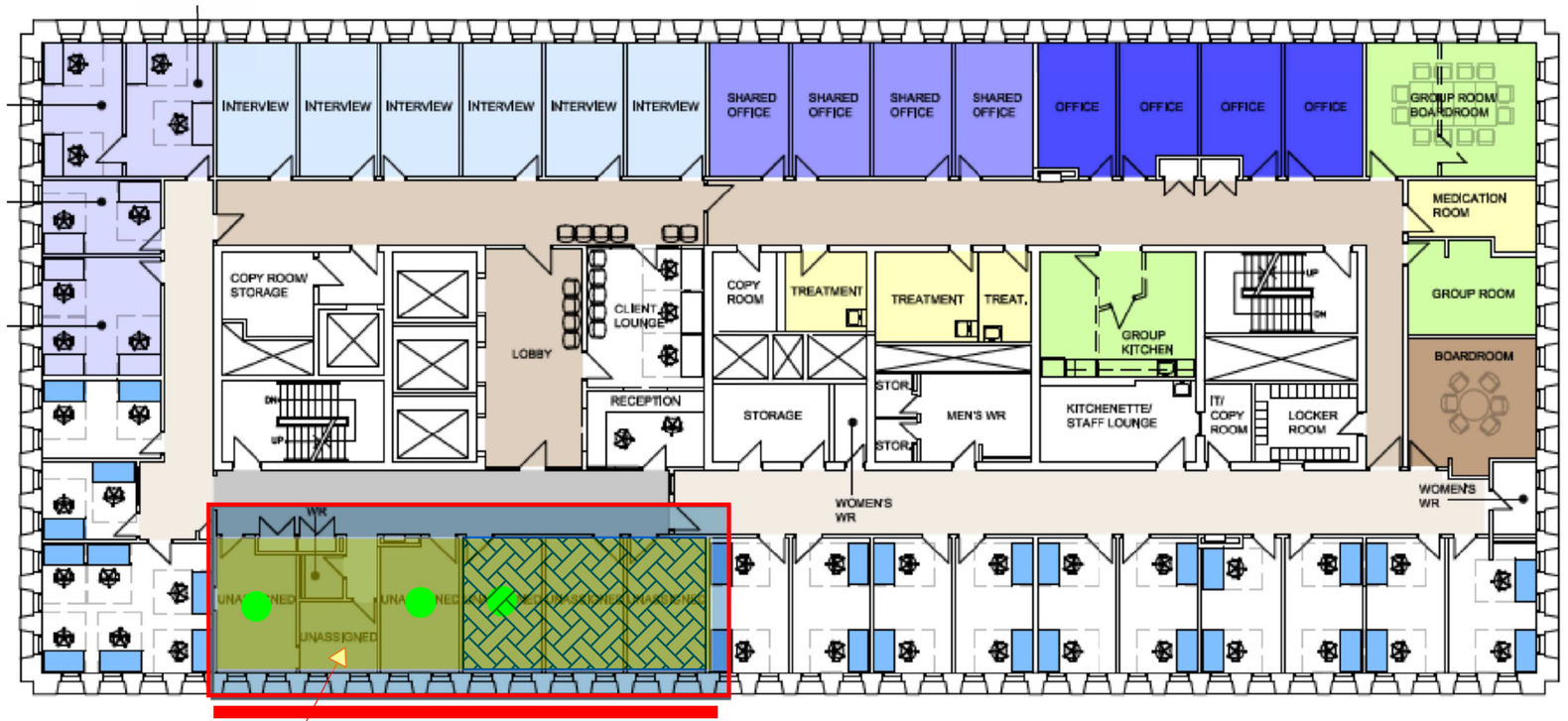
AREA ASSESSED

VINYL FLOOR TILES (ACM)

12"X12" LIGHT BEIGE WITH RED STREAK VINYL FLOOR TILES THROUGHOUT ARE ASBESTOS-CONTAINING AND MAY BE PRESENT IN OTHER AREAS OR BENEATH FLOOR FINISHES

PLASTER FINISHES THROUGHOUT ARE ASBESTOS-CONTAINING

DRYWALL JOINT COMPOUND ASSOCIATED WITH DRYWALL FINISHES THROUGHOUT ARE ASBESTOS-CONTAINING



Outpatient
Telehealth
7th floor
total 5 workspaces
-3 private offices (3 required)
-2 workspaces (2 required)
-1 staff kitchenette
-shared meeting rooms
-shared printer
-shared storage

Level 7

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7TH FLOOR

RENOVATION PROJECT

250 COLLEGE STREET
TORONTO, ONTARIO

DRAWING NO.
DS-2

DATE: OCTOBER 14, 2022

SAFETECH PROJECT NO.
3220708

safeTECH ENVIRONMENTAL LTD.
3045 SOUTHCREEK RD, UNIT 14
MISSISSAUGA, ONTARIO
L4X 2X7

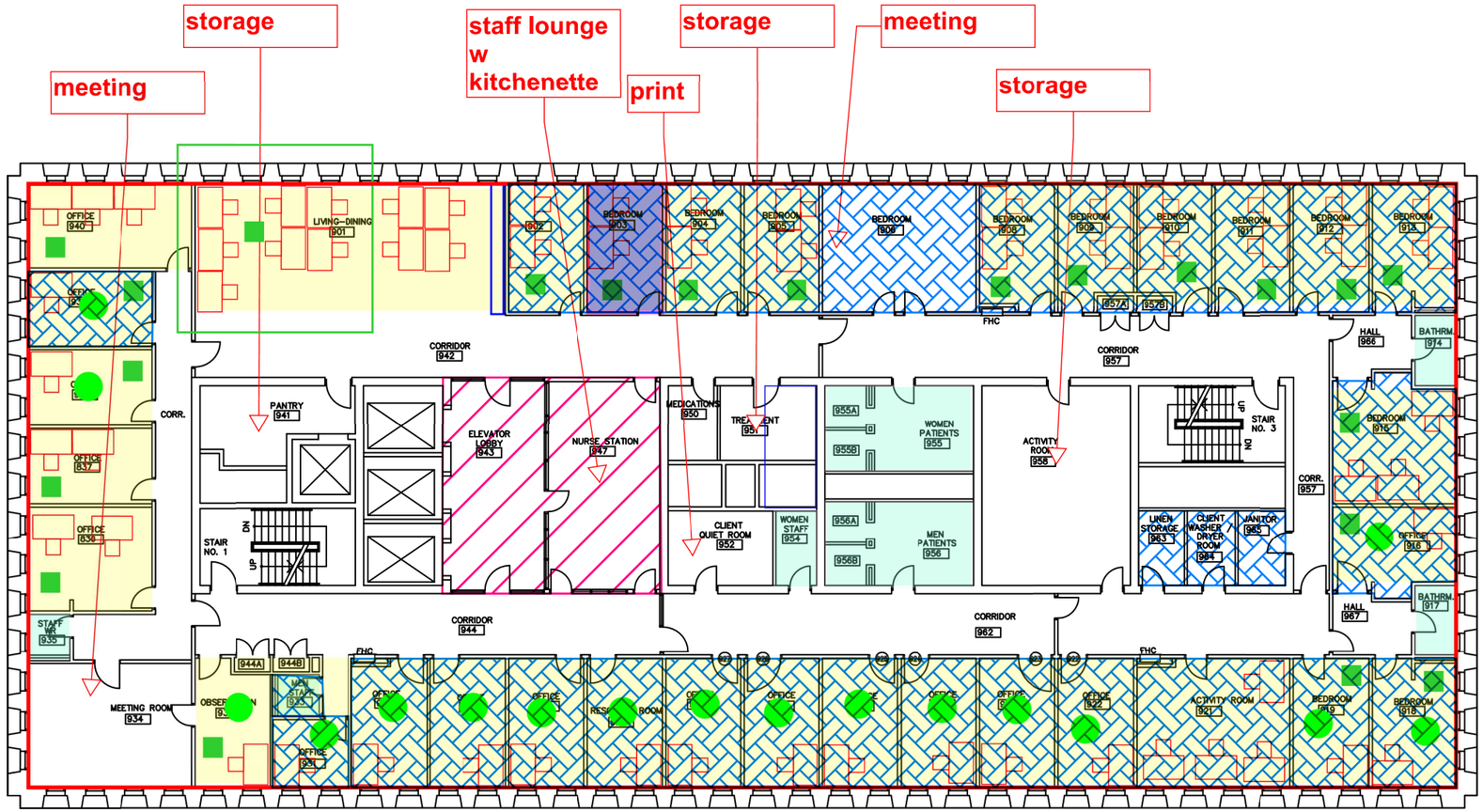
LEGEND

- AREA ASSESSED
- CEMENT CEILING TILES (ACM)
- TEXTURE COAT (ACM)
- VINYL FLOOR TILES (ACM)

12"X12" LIGHT BEIGE WITH RED STREAK VINYL FLOOR TILES THROUGHOUT ARE ASBESTOS-CONTAINING AND MAY BE PRESENT IN OTHER AREAS OR BENEATH FLOOR FINISHES

PLASTER FINISHES THROUGHOUT ARE ASBESTOS-CONTAINING

DRYWALL JOINT COMPOUND ASSOCIATED WITH DRYWALL FINISHES THROUGHOUT ARE ASBESTOS-CONTAINING



Renovation scope

-5 individual washrooms accessories, wall/floor finishes reno
-2 washroom blocks renovation, accessories, wall/floor finishes reno
-no new partitions or demo
-make good, paint all walls
-make good all floors, replace where needed
-make good, paint all doors, replace where needed
-new desks, new pedestals, new office shelves, new storage shelves
-new meeting rooms furniture
-power/data upgrade all ofices

OPSEU
-1 private offices
Communications
-1 private office
CAMH asso
-12 workspaces
Remedial
-7 workspaces
Health equity
-1 private
-10 worksp
PSSP
-3 private
-7 worksp

Research 9th floor
-9 private offices
-9 workspaces
-2 meeting rooms
-staff lounge
-2 printer
-storage

LEVEL 9

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9TH FLOOR

RENOVATION PROJECT

250 COLLEGE STREET
TORONTO, ONTARIO

DRAWING NO.
DS-3

DATE: OCTOBER 14, 2022

SAFETECH PROJECT NO.
3220708

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3045 SOUTHCREEK RD, UNIT 14
MISSISSAUGA, ONTARIO
L4X 2X7

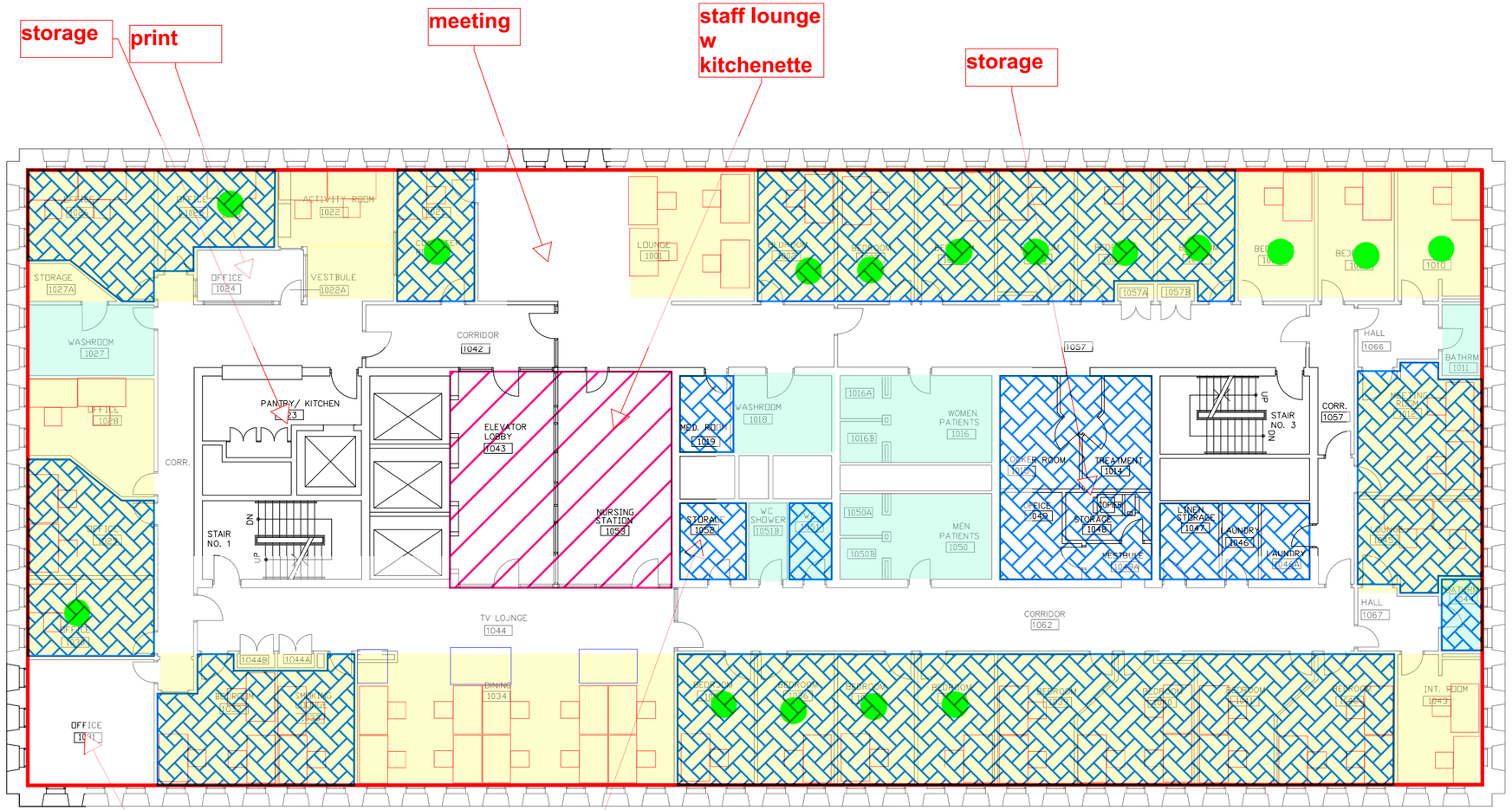
LEGEND

- AREA ASSESSED
- TEXTURE COAT (ACM)
- VINYL FLOOR TILES (ACM)

12"X12" LIGHT BEIGE WITH RED STREAK VINYL FLOOR TILES THROUGHOUT ARE ASBESTOS-CONTAINING AND MAY BE PRESENT IN OTHER AREAS OR BENEATH FLOOR FINISHES

PLASTER FINISHES THROUGHOUT ARE ASBESTOS-CONTAINING

DRYWALL JOINT COMPOUND ASSOCIATED WITH DRYWALL FINISHES THROUGHOUT ARE ASBESTOS-CONTAINING



Research 10th floor
- 16 private offices
- 43 workspaces
-2 meeting rooms
-1 staff lounge
-2 copy rooms
-storage

10TH FLOOR

1) THIS FLOOR PLAN MUST BE READ IN CONJUNCTION WITH THE DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS ASSESSMENT REPORT.
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10TH FLOOR	DRAWING NO. DS-4
RENOVATION PROJECT	DATE: OCTOBER 14, 2022
250 COLLEGE STREET TORONTO, ONTARIO	SAFETECH PROJECT NO. 3220708

safeTECH ENVIRONMENTAL LTD.
3045 SOUTHCREEK RD, UNIT 14
MISSISSAUGA, ONTARIO
L4X 2X7

LEGEND

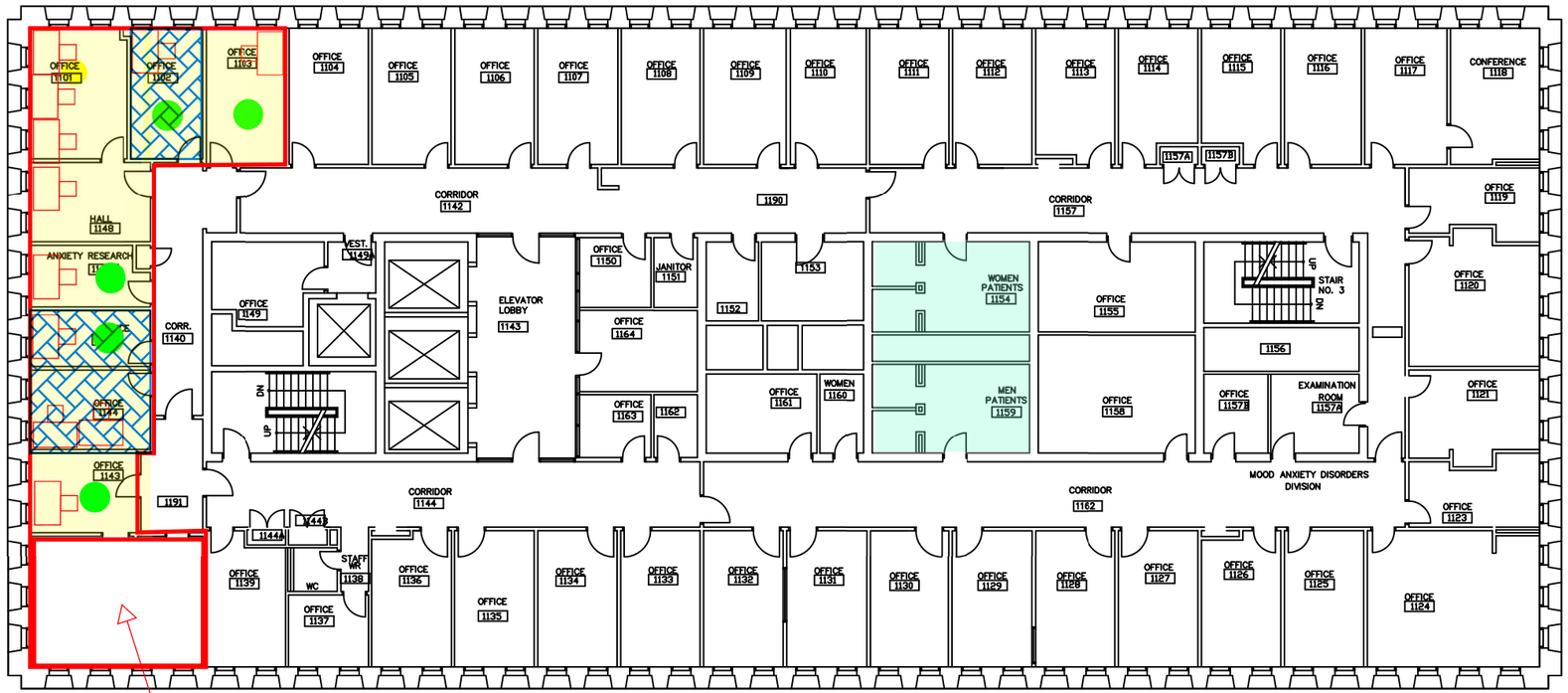
AREA ASSESSED

VINYL FLOOR TILES (ACM)

12"X12" LIGHT BEIGE WITH RED STREAK VINYL FLOOR TILES THROUGHOUT ARE ASBESTOS-CONTAINING AND MAY BE PRESENT IN OTHER AREAS OR BENEATH FLOOR FINISHES

PLASTER FINISHES THROUGHOUT ARE ASBESTOS-CONTAINING

DRYWALL JOINT COMPOUND ASSOCIATED WITH DRYWALL FINISHES THROUGHOUT ARE ASBESTOS-CONTAINING



Total Research - 87
Floors 9,10,11
-30 private offices (30 required)
-57 workspaces (57 required)
-4 meeting rooms
-2 staff lounges
-4 printer
-storage

Research 11th floor
-5 private offices
-6 workspaces
-1 meeting rooms
-1 printer
-storage

LEVEL 11

1) THIS FLOOR PLAN MUST BE READ IN CONJUNCTION WITH THE DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS ASSESSMENT REPORT.
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11TH FLOOR

RENOVATION PROJECT

250 COLLEGE STREET
TORONTO, ONTARIO

DRAWING NO.
DS-5

DATE: OCTOBER 14, 2022

SAFETECH PROJECT NO.
3220708

safeTECH ENVIRONMENTAL LTD.
3045 SOUTHCREEK RD, UNIT 14
MISSISSAUGA, ONTARIO
L4X 2X7

Appendix C: Laboratory Certificate of Analysis – Asbestos

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L4T 1G3
Phone/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order 552215770
Customer ID: 55SELI62
Customer PO: 3220708
Project ID:

Attn: Anthony Fiume
Safetech Environmental Limited
3045 Southcreek Road
Unit 14
Mississauga, ON L4X 2X7

Phone: (905) 624-2722
Fax: (905) 624-4306
Collected: 10/14/2022
Received: 10/14/2022
Analyzed: 10/19/2022

Proj: 3220708 - CAMH, 250 College Street, Toronto, Ontario - Renovation Project

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Client Sample ID: 1a **Lab Sample ID:** 552215770-0001
Sample Description: DJC - Ground Floor Waiting Area Adjacent G156

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 1b **Lab Sample ID:** 552215770-0002
Sample Description: DJC - G115B

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 1c **Lab Sample ID:** 552215770-0003
Sample Description: DJC - Open Table Area by G108A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 1d **Lab Sample ID:** 552215770-0004
Sample Description: DJC - G144A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 1e **Lab Sample ID:** 552215770-0005
Sample Description: DJC - G176

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 1f **Lab Sample ID:** 552215770-0006
Sample Description: DJC - G189

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 1g **Lab Sample ID:** 552215770-0007
Sample Description: DJC - Corridor by 6200

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

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EMSL Canada Order 552215770
Customer ID: 55SELI62
Customer PO: 3220708
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Client Sample ID: 2a **Lab Sample ID:** **552215770-0008**
Sample Description: Plaster - G168A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White/Beige	0.0%	100.0%	None Detected	

Client Sample ID: 2b **Lab Sample ID:** **552215770-0009**
Sample Description: Plaster - G140

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White/Beige	0.0%	100.0%	None Detected	

Client Sample ID: 2c **Lab Sample ID:** **552215770-0010**
Sample Description: Plaster - G7

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White/Beige	0.0%	100.0%	None Detected	

Client Sample ID: 2d **Lab Sample ID:** **552215770-0011**
Sample Description: Plaster - Corridor by G13

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White/Beige	0.0%	99.0%	**1% Chrysotile**	

Client Sample ID: 2e **Lab Sample ID:** **552215770-0012**
Sample Description: Plaster - Corridor by G13

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022				Positive Stop (Not Analyzed)	

Client Sample ID: 2f **Lab Sample ID:** **552215770-0013**
Sample Description: Plaster - 964

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022				Positive Stop (Not Analyzed)	

Client Sample ID: 2g **Lab Sample ID:** **552215770-0014**
Sample Description: Plaster - 940

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022				Positive Stop (Not Analyzed)	

Client Sample ID: 3a **Lab Sample ID:** **552215770-0015**
Sample Description: Mastic Beneath VSF - G175

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	0.0%	100.0%	None Detected	

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EMSL Canada Order 552215770
Customer ID: 55SELI62
Customer PO: 3220708
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Client Sample ID: 3b **Lab Sample ID:** **552215770-0016**
Sample Description: Mastic Beneath VSF - G175

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	0.0%	100.0%	None Detected	

Client Sample ID: 3c **Lab Sample ID:** **552215770-0017**
Sample Description: Mastic Beneath VSF - G175

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown/Various	0.0%	100.0%	None Detected	

Client Sample ID: 4a-Floor Tile **Lab Sample ID:** **552215770-0018**
Sample Description: Yellow VSF - G149A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 4b-Floor Tile **Lab Sample ID:** **552215770-0019**
Sample Description: Yellow VSF - G149A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 4c-Floor Tile **Lab Sample ID:** **552215770-0020**
Sample Description: Yellow VSF - G149A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 5a **Lab Sample ID:** **552215770-0021**
Sample Description: Blue VSF - G181

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 5b **Lab Sample ID:** **552215770-0022**
Sample Description: Blue VSF - G181

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 5c **Lab Sample ID:** **552215770-0023**
Sample Description: Blue VSF - G181

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

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EMSL Canada Order 552215770
Customer ID: 55SELI62
Customer PO: 3220708
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Client Sample ID: 6a-Floor Tile **Lab Sample ID:** **552215770-0024**
Sample Description: 12"x12" Cream w Streak VFT - 958

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 6b **Lab Sample ID:** **552215770-0025**
Sample Description: 12"x12" Cream w Streak VFT - 958

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 6c-Floor Tile **Lab Sample ID:** **552215770-0026**
Sample Description: 12"x12" Cream w Streak VFT - 958

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 7a-Floor Tile **Lab Sample ID:** **552215770-0027**
Sample Description: 12"x12" Light Beige w Red Streak + Mastic - 903

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Beige	0.0%	98.0%	**2% Chrysotile**	

Client Sample ID: 7a-Mastic **Lab Sample ID:** **552215770-0027A**
Sample Description: 12"x12" Light Beige w Red Streak + Mastic - 903

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Black	0.0%	100.0%	None Detected	

Client Sample ID: 7b-Floor Tile **Lab Sample ID:** **552215770-0028**
Sample Description: 12"x12" Light Beige w Red Streak + Mastic - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022				Positive Stop (Not Analyzed)	

Client Sample ID: 7b-Mastic **Lab Sample ID:** **552215770-0028A**
Sample Description: 12"x12" Light Beige w Red Streak + Mastic - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Black	0.0%	100.0%	None Detected	

Client Sample ID: 7c-Floor Tile **Lab Sample ID:** **552215770-0029**
Sample Description: 12"x12" Light Beige w Red Streak + Mastic - 934

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022				Positive Stop (Not Analyzed)	

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Customer ID: 55SELI62
Customer PO: 3220708
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Client Sample ID: 7c-Mastic ***Lab Sample ID:*** **552215770-0029A**

Sample Description: 12"x12" Light Beige w Red Streak + Mastic - 934

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Black	0.0%	100.0%	None Detected	

Client Sample ID: 8a ***Lab Sample ID:*** **552215770-0030**

Sample Description: 12"x12" Grey w Black Streak VFT - 932

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 8b-Floor Tile ***Lab Sample ID:*** **552215770-0031**

Sample Description: 12"x12" Grey w Black Streak VFT - 932

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 8c ***Lab Sample ID:*** **552215770-0032**

Sample Description: 12"x12" Grey w Black Streak VFT - 932

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 9a ***Lab Sample ID:*** **552215770-0033**

Sample Description: 12"x12" Light Beige w Grey Speck VFT - Corridor by 938

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 9b-Floor Tile ***Lab Sample ID:*** **552215770-0034**

Sample Description: 12"x12" Light Beige w Grey Speck VFT - Corridor by 938

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 9c ***Lab Sample ID:*** **552215770-0035**

Sample Description: 12"x12" Light Beige w Grey Speck VFT - Corridor by 938

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 10a ***Lab Sample ID:*** **552215770-0036**

Sample Description: 12"x12" Light Beige w Brown Speck VFT - Corridor Adjacent G136A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

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EMSL Canada Order 552215770
Customer ID: 55SELI62
Customer PO: 3220708
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Client Sample ID: 10b **Lab Sample ID:** **552215770-0037**

Sample Description: 12"x12" Light Beige w Brown Speck VFT - Corridor Adjacent G136A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 10c **Lab Sample ID:** **552215770-0038**

Sample Description: 12"x12" Light Beige w Brown Speck VFT - Corridor Adjacent G136A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 11a-Floor Tile **Lab Sample ID:** **552215770-0039**

Sample Description: 12"x12" Dark Grey w Brown Speck VFT + Mastic - Corridor Adjacent G135

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 11a-Mastic **Lab Sample ID:** **552215770-0039A**

Sample Description: 12"x12" Dark Grey w Brown Speck VFT + Mastic - Corridor Adjacent G135

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: 11a-Leveler **Lab Sample ID:** **552215770-0039B**

Sample Description: 12"x12" Dark Grey w Brown Speck VFT + Mastic - Corridor Adjacent G135

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 11b-Floor Tile **Lab Sample ID:** **552215770-0040**

Sample Description: 12"x12" Dark Grey w Brown Speck VFT + Mastic - Corridor Adjacent G135

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 11b-Mastic **Lab Sample ID:** **552215770-0040A**

Sample Description: 12"x12" Dark Grey w Brown Speck VFT + Mastic - Corridor Adjacent G135

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: 11c-Floor Tile **Lab Sample ID:** **552215770-0041**

Sample Description: 12"x12" Dark Grey w Brown Speck VFT + Mastic - Corridor Adjacent G135

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

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Client Sample ID: 11c-Mastic ***Lab Sample ID:*** **552215770-0041A**

Sample Description: 12"x12" Dark Grey w Brown Speck VFT + Mastic - Corridor Adjacent G135

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: 11c-Leveler ***Lab Sample ID:*** **552215770-0041B**

Sample Description: 12"x12" Dark Grey w Brown Speck VFT + Mastic - Corridor Adjacent G135

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 12a-Floor Tile ***Lab Sample ID:*** **552215770-0042**

Sample Description: 12"x12" White w Grye Speck VFT + Mastic Corridor by G12

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 12a-Mastic ***Lab Sample ID:*** **552215770-0042A**

Sample Description: 12"x12" White w Grye Speck VFT + Mastic Corridor by G12

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Black	0.0%	100.0%	None Detected	

Client Sample ID: 12b-Floor Tile ***Lab Sample ID:*** **552215770-0043**

Sample Description: 12"x12" White w Grye Speck VFT + Mastic Corridor by G12

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 12b-Mastic ***Lab Sample ID:*** **552215770-0043A**

Sample Description: 12"x12" White w Grye Speck VFT + Mastic Corridor by G12

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Black	0.0%	100.0%	None Detected	

Client Sample ID: 12c ***Lab Sample ID:*** **552215770-0044**

Sample Description: 12"x12" White w Grye Speck VFT + Mastic Corridor by G12

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 13a ***Lab Sample ID:*** **552215770-0045**

Sample Description: 12"x12" Blue w White Streak VFT - G26 Beneath Filing Cabinets

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

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Client Sample ID: 13b **Lab Sample ID:** **552215770-0046**
Sample Description: 12"x12" Blue w White Streak VFT - G26 Beneath Filing Cabinets

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 13c **Lab Sample ID:** **552215770-0047**
Sample Description: 12"x12" Blue w White Streak VFT - G26 Beneath Filing Cabinets

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 14a **Lab Sample ID:** **552215770-0048**
Sample Description: Grey VSF - G175

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 14b **Lab Sample ID:** **552215770-0049**
Sample Description: Grey VSF - G175

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 14c **Lab Sample ID:** **552215770-0050**
Sample Description: Grey VSF - G175

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 15a **Lab Sample ID:** **552215770-0051**
Sample Description: 2'x2' Deep Fissure / Pinhole LICT - 939

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	80.0%	20.0%	None Detected	

Client Sample ID: 15b **Lab Sample ID:** **552215770-0052**
Sample Description: 2'x2' Deep Fissure / Pinhole LICT - 939

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	80.0%	20.0%	None Detected	

Client Sample ID: 15c **Lab Sample ID:** **552215770-0053**
Sample Description: 2'x2' Deep Fissure / Pinhole LICT - 939

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	80.0%	20.0%	None Detected	

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Client Sample ID: 16a **Lab Sample ID:** **552215770-0054**
Sample Description: 2'x2' Fissure / Pinhole LICT - Corridor by G208

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	80.0%	20.0%	None Detected	

Client Sample ID: 16b **Lab Sample ID:** **552215770-0055**
Sample Description: 2'x2' Fissure / Pinhole LICT - Corridor by G208

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	80.0%	20.0%	None Detected	

Client Sample ID: 16c **Lab Sample ID:** **552215770-0056**
Sample Description: 2'x2' Fissure / Pinhole LICT - Corridor by G208

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	80.0%	20.0%	None Detected	

Client Sample ID: 17a **Lab Sample ID:** **552215770-0057**
Sample Description: Long Width-Wise Fissure / Hole LICT - 958

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Tan	80.0%	20.0%	None Detected	

Client Sample ID: 17b **Lab Sample ID:** **552215770-0058**
Sample Description: Long Width-Wise Fissure / Hole LICT - 958

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Tan	80.0%	20.0%	None Detected	

Client Sample ID: 17c **Lab Sample ID:** **552215770-0059**
Sample Description: Long Width-Wise Fissure / Hole LICT - 958

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	70.0%	30.0%	None Detected	

Client Sample ID: 18a **Lab Sample ID:** **552215770-0060**
Sample Description: Pinhole / Small Fissure LICT - G189

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Tan	80.0%	20.0%	None Detected	

Client Sample ID: 18b **Lab Sample ID:** **552215770-0061**
Sample Description: Pinhole / Small Fissure LICT - G189

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Tan	80.0%	20.0%	None Detected	

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Client Sample ID: 18c **Lab Sample ID:** **552215770-0062**
Sample Description: Pinhole / Small Fissure LICT - G189

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	80.0%	20.0%	None Detected	

Client Sample ID: 19a **Lab Sample ID:** **552215770-0063**
Sample Description: Pinhole / Small Hole LICT - G115A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	60.0%	40.0%	None Detected	

Client Sample ID: 19b **Lab Sample ID:** **552215770-0064**
Sample Description: Pinhole / Small Hole LICT - G115A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	0.0%	100.0%	None Detected	

Client Sample ID: 19c **Lab Sample ID:** **552215770-0065**
Sample Description: Pinhole / Small Hole LICT - G115A

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Tan	70.0%	30.0%	None Detected	

Client Sample ID: 20a **Lab Sample ID:** **552215770-0066**
Sample Description: Grey Fluffy SFP - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	20.0%	80.0%	None Detected	

Client Sample ID: 20b **Lab Sample ID:** **552215770-0067**
Sample Description: Grey Fluffy SFP - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	20.0%	80.0%	None Detected	

Client Sample ID: 20c **Lab Sample ID:** **552215770-0068**
Sample Description: Grey Fluffy SFP - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	80.0%	20.0%	None Detected	

Client Sample ID: 21a **Lab Sample ID:** **552215770-0069**
Sample Description: Green Fluffy SFP - G189

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Green	0.0%	100.0%	None Detected	

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Client Sample ID: 21b **Lab Sample ID:** **552215770-0070**
Sample Description: Green Fluffy SFP - G189

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Green	0.0%	100.0%	None Detected	

Client Sample ID: 21c **Lab Sample ID:** **552215770-0071**
Sample Description: Green Fluffy SFP - G189

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	40.0%	60.0%	None Detected	

Client Sample ID: 22a **Lab Sample ID:** **552215770-0072**
Sample Description: Texture Coat Ceiling - 9th Floor Elevator Lobby

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Tan	1.0%	94.0%	**5% Chrysotile**	

Client Sample ID: 22b **Lab Sample ID:** **552215770-0073**
Sample Description: Texture Coat Ceiling - 9th Floor Elevator Lobby

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022				Positive Stop (Not Analyzed)	

Client Sample ID: 22c **Lab Sample ID:** **552215770-0074**
Sample Description: Texture Coat Ceiling - 9th Floor Elevator Lobby

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022				Positive Stop (Not Analyzed)	

Client Sample ID: 23a **Lab Sample ID:** **552215770-0075**
Sample Description: Parging on Fitting - Drain Pipe - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	0.0%	40.0%	**60% Chrysotile**	

Client Sample ID: 23b **Lab Sample ID:** **552215770-0076**
Sample Description: Parging on Fitting - Drain Pipe - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022				Positive Stop (Not Analyzed)	

Client Sample ID: 23c **Lab Sample ID:** **552215770-0077**
Sample Description: Parging on Fitting - Drain Pipe - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022				Positive Stop (Not Analyzed)	

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Client Sample ID: 24a **Lab Sample ID:** **552215770-0078**
Sample Description: Sweat Wrap - Drain Pipe - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown/Black	80.0%	20.0%	None Detected	

Client Sample ID: 24b **Lab Sample ID:** **552215770-0079**
Sample Description: Sweat Wrap - Drain Pipe - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown/Black	80.0%	20.0%	None Detected	

Client Sample ID: 24c **Lab Sample ID:** **552215770-0080**
Sample Description: Sweat Wrap - Drain Pipe - G26

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Brown	70.0%	30.0%	None Detected	

Client Sample ID: 25a **Lab Sample ID:** **552215770-0081**
Sample Description: 12"x12" Light Blue w Blue and White Speck VFT - 732

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 25b **Lab Sample ID:** **552215770-0082**
Sample Description: 12"x12" Light Blue w Blue and White Speck VFT - 732

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 25c **Lab Sample ID:** **552215770-0083**
Sample Description: 12"x12" Light Blue w Blue and White Speck VFT - 732

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 26a **Lab Sample ID:** **552215770-0084**
Sample Description: 12"x12" White w Grey Streak VFT - 731

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 26b **Lab Sample ID:** **552215770-0085**
Sample Description: 12"x12" White w Grey Streak VFT - 731

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

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Client Sample ID: 26c ***Lab Sample ID:*** **552215770-0086**

Sample Description: 12"x12" White w Grey Streak VFT - 731

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 27a ***Lab Sample ID:*** **552215770-0087**

Sample Description: 12"x12" Beige w Long Brown Streak VFT - 1146

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 27b ***Lab Sample ID:*** **552215770-0088**

Sample Description: 12"x12" Beige w Long Brown Streak VFT - 1146

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 27c ***Lab Sample ID:*** **552215770-0089**

Sample Description: 12"x12" Beige w Long Brown Streak VFT - 1146

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 28a ***Lab Sample ID:*** **552215770-0090**

Sample Description: 2'x2' Rough LICT - 1047

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	70.0%	30.0%	None Detected	

Client Sample ID: 28b ***Lab Sample ID:*** **552215770-0091**

Sample Description: 2'x2' Rough LICT - 1047

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Gray	70.0%	30.0%	None Detected	

Client Sample ID: 28c ***Lab Sample ID:*** **552215770-0092**

Sample Description: 2'x2' Rough LICT - 1047

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	80.0%	20.0%	None Detected	

Client Sample ID: 29a-Floor Tile ***Lab Sample ID:*** **552215770-0093**

Sample Description: 12"X12" White w Thick Black Streak VFT + Mastic - 1028

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

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Client Sample ID: 29a-Mastic ***Lab Sample ID:*** **552215770-0093A**

Sample Description: 12"X12" White w Thick Black Streak VFT + Mastic - 1028

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Black	0.0%	100.0%	None Detected	

Client Sample ID: 29b-Floor Tile ***Lab Sample ID:*** **552215770-0094**

Sample Description: 12"X12" White w Thick Black Streak VFT + Mastic - 1028

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 29b-Mastic ***Lab Sample ID:*** **552215770-0094A**

Sample Description: 12"X12" White w Thick Black Streak VFT + Mastic - 1028

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Black	0.0%	100.0%	None Detected	

Client Sample ID: 29c-Floor Tile ***Lab Sample ID:*** **552215770-0095**

Sample Description: 12"X12" White w Thick Black Streak VFT + Mastic - 1028

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: 29c-Mastic ***Lab Sample ID:*** **552215770-0095A**

Sample Description: 12"X12" White w Thick Black Streak VFT + Mastic - 1028

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Black	0.0%	100.0%	None Detected	

Client Sample ID: 30a ***Lab Sample ID:*** **552215770-0096**

Sample Description: 12"x12" Bege w Brpwn Smudge VFT - 1008

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 30b ***Lab Sample ID:*** **552215770-0097**

Sample Description: 12"x12" Bege w Brpwn Smudge VFT - 1008

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 30c ***Lab Sample ID:*** **552215770-0098**

Sample Description: 12"x12" Bege w Brpwn Smudge VFT - 1008

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	10/19/2022	Beige	0.0%	100.0%	None Detected	

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L4T 1G3
Phone/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

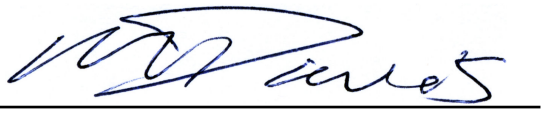
EMSL Canada Order 552215770
Customer ID: 55SELI62
Customer PO: 3220708
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Analyst(s):

Dmitriy Suzdalev	PLM (12)
Matthew Mastrocola	PLM (40)
Stephen Mastromonaco	PLM (50)

Reviewed and approved by:



Matthew Davis or other approved signatory
or Other Approved Signatory

None Detected = <0.1%. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government.

Samples analyzed by EMSL Canada Inc. Ville Saint-Laurent, QC NVLAP Lab Code 201052-0, NYS ELAP 12043

Initial report from: 10/19/202214:51:42

Appendix D: Laboratory Certificate of Analysis – Lead

EMSL Canada Inc.
2756 Slough Street, Mississauga, ON L4T 1G3
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http://www.EMSL.com torontolab@emsl.com

EMSL Canada Or	552215746
CustomerID:	55SELI62
CustomerPO:	3220708
ProjectID:	

Attn: **Anthony Fiume**
Safetech Environmental Limited
3045 Southcreek Road
Unit 14
Mississauga, ON L4X 2X7

Phone:	(905) 624-2722
Fax:	(905) 624-4306
Received:	10/14/2022 04:22 PM
Collected:	10/13/2022

Project: **3220708 - CAMH, 250 College Street, Toronto, Ontario - Renovation Project**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L1	10/13/2022	10/17/2022	0.2482 g	0.0081 % wt	<0.0081 % wt
552215746-0001	Site: Beige-Drywall-Waiting Area by G189				
L2	10/13/2022	10/17/2022	0.2490 g	0.0080 % wt	0.084 % wt
552215746-0002	Site: Beige-Drywall-Corridor Adjacent 939				
L3	10/13/2022	10/17/2022	0.2478 g	0.0081 % wt	<0.0081 % wt
552215746-0003	Site: Blue-DW/Plaster-1047				
L4	10/13/2022	10/17/2022	0.2490 g	0.0080 % wt	0.075 % wt
552215746-0004	Site: Beige-Plaster-Corridor Adjacent 1012				

Rowena Fanto, Lead Supervisor
or other approved signatory

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Canada Inc. Mississauga, ON AIHA-LAP, LLC - ELLAP #196142

Initial report from 10/19/2022 09:17:59

Appendix E: Methodology

A. METHODOLOGY

The presence of hazardous materials was assessed by visual inspection. For the purpose of this assessment and this document, hazardous materials include designated substances as well as other chemical, biological and environmental hazards as defined below:

- Designated Substances (as prescribed by Ontario Regulation 490/09):
    - Acrylonitrile, Arsenic, Asbestos, Benzene, Coke Oven Emissions, Ethylene Oxide, Isocyanates, Lead, Mercury, Silica and Vinyl Chloride.
- Other Hazardous Materials:
    - **Chemical Hazards** – Urea Formaldehyde Foam Insulation (UFFI)
    - **Biological Hazards** – Mould Contamination and Pest Infestation
    - **Environmental Hazards** – Polychlorinated Biphenyls (PCBs) and Ozone Depleting & Global Warming Substances

Concealed locations such as above solid plaster or drywall ceilings, within plaster or drywall wall cavities, enclosed mechanical/pipe shafts and bulkheads, etc. were not investigated, unless otherwise stated in Section 1.3. Similarly, motors, blowers, electrical panels, etc., were not de-energized or disassembled to examine concealed conditions. Building materials that are not detailed within this assessment due to inaccessibility at the time of our site visit and/or uncovered during renovation/demolition activities should be assessed by a qualified person prior to their disturbance.

Bulk sampling followed by laboratory analysis was also conducted to confirm the presence/absence of select hazardous materials. Bulk sampling was limited to asbestos in building materials and lead in paint on building finishes (if flaking paint was present). All other hazardous materials were identified by visual inspection only. Where possible, observations regarding the location, quantity and condition of the hazardous materials identified were made in order to determine the potential for exposure and provide appropriate recommendations for remedial action, if necessary. Specific methodology for each individual hazardous material assessed is further detailed below.

A.1 Designated Substances

A.1.1 Asbestos

A visual inspection for the presence of both friable and non-friable asbestos-containing material (ACM) was performed in the subject area.

If an existing asbestos survey was available for review, Safetech relied on the information present. Building materials that were visually similar to materials previously tested and that were confirmed to be either ACM or non-ACM were considered to have consistent content and were not re-sampled. Additional sampling was only conducted where the investigator believed a need existed.
Bulk samples of building materials suspected to contain asbestos were retrieved by Safetech only for materials that were deemed to have a potential to be disturbed as part

of the construction project. Some suspect materials may not have been sampled during our investigation. Bulk samples were retrieved in accordance with Section 3 and Table 1 of Ontario Regulation 278/05, "Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations". The number of samples collected for each material was based on the type and quantity of the material present in the subject area. Each individual sample was placed in a labeled zip-lock bag for transportation to an independent laboratory (EMSL). EMSL is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos fiber analysis.

Analysis for asbestos content was performed by the independent laboratory in accordance with the U.S. Environmental Protection Agency (EPA) Test Method *EPA/600/R-93-116: Method for the Determination of Asbestos in Bulk Building Materials (June 1993)*. This method identifies the asbestos fibre content of building materials using polarized light microscopy (PLM) analytical techniques, with confirmation of presence and type of asbestos made by dispersion staining optical microscopy. This analytical method meets the requirements set forth in Section 3 of O. Reg. 278/05.

In accordance with O. Reg. 278/05, an asbestos-containing material is defined as material that contains 0.5 per cent or more asbestos by dry weight. The laboratory was instructed to conduct "stop-positive" analysis for all materials. If a sample was found to be asbestos-containing no further analysis was conducted for samples taken from the same homogeneous material.

Locations where ACM have been identified are detailed in this report. Recommendations pertaining to ACM were made based on the friability, accessibility and condition of the material in conjunction with the potential for the planned renovation work to disturb the ACM.

A.1.2 Assessment of Asbestos-Containing Building Materials

Accessibility, Condition and Action (Priority) ratings for individual items, or defined areas were developed by Safetech to determine remedial action plans specific to the facility's needs.

A.1.2.1 Accessibility

Accessibility has been assessed as: (A) Accessible to all non-maintenance occupants of the building; (B) Accessible to maintenance staff without a ladder; (C) Accessible to maintenance staff with a ladder and exposed to view without moving a building component; (D) Accessible to maintenance staff with a ladder and concealed from view due to a building component; (E) Not accessible without demolition or removal of fixed building components or building systems

A.1.2.2 Condition

The condition of asbestos-containing materials identified in the subject area was assessed as Good (G), Fair (F) or Poor (P). The assessment criteria used to determine condition is dependent on material characteristics, such as friability. The following table summarizes the criteria used by Safetech to evaluate the condition of ACM.

Sprayed Fireproofing, Sprayed Insulation and Sprayed Texture Finishes	
Good	• Surface shows no significant signs of damage, deterioration, or delamination (i.e. <1%). • Unencapsulated or unpainted fireproofing or texture finishes, where no delamination or damage is observed. • Encapsulated fireproofing or texture finishes where encapsulation applied after damage or fallout.
Fair	• Not utilized as part of condition assessment for these materials.
Poor	• Greater than 1% damage, delamination, or deterioration to surface.
In areas where damage exists in isolated locations, both Good and Poor may be applicable.	
Mechanical Insulation (boilers, breeching, ductwork, piping, tanks, equipment, etc.)	
Good	• Insulation completely covered in jacketing and exhibits no evidence of damage or deterioration. • Jacketing may have minor damage (i.e. scuffs or stains), but is not penetrated.
Fair	• Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination). • Undamaged insulation that had never been jacketed. • Insulation is exposed but not showing surface disintegration. • Extent of missing insulation ranges from minor to none. • Damage that can be repaired.
Poor	• Original insulation jacket is missing, damaged, deteriorated, or delaminated. • Insulation is exposed and significant areas have been dislodged. • Damage that cannot be easily repaired.
Non-Friable and Potentially Friable Materials (includes materials such as plaster finishes, drywall compound, ceiling tiles, asbestos cement products, vinyl asbestos tile and asbestos paper backed vinyl sheet flooring, etc., which have the potential to become friable when handled)	
Good	• No significant damage. • Material may be cracked or broken but is stable and not likely to become friable upon casual contact. • No friable debris present
Fair	• Not utilized as part of condition assessment for these materials.
Poor	• Material is severely damaged. • Debris is present or binder has disintegrated to the point where the material has become friable.
Asbestos-Containing Debris (noted separately from the presumed source material)	
Poor	• Debris is always considered to be in Poor condition.

A.1.2.3 Action

Recommended ACTION for compliance and for management of identified asbestos-containing materials has been provided for each condition and component outlined in the above table. Recommendations have been classified under the following 8 ACTIONS:

1. Action dealing with the immediate clean-up of fallen ACM likely to be disturbed.

2. Action dealing with the need to use Type 2 asbestos procedures to enter an area (other than a ceiling space).
3. Action dealing with performing asbestos removal for compliance with regulations.
4. Action dealing with Type 2 asbestos procedures for ceiling entry where friable ACM debris is present on the top side of a ceiling system.
5. Action dealing with the removal of asbestos that goes beyond compliance requirements but simplifies the asbestos management.
6. Action dealing with the repair of asbestos.
7. Action dealing with ACM surveillance requirements of the regulation.
8. Action for dealing with material that may contain asbestos but was not conclusively identified in the survey.

A.1.2.4 Quantity

The approximate quantity and the units of measure related to the quantity (i.e.: linear feet (LF), square feet (SF) or each (EACH) as appropriate to the item) have only been provided for materials requiring remedial or corrective action (i.e. materials in Fair or Poor condition). In such circumstances any quantities provided should be considered rough estimates only and should not be solely relied upon for bidding purposes. It is the responsibility of the selected Contractor to obtain actual quantities.

A.2 Lead

If paint samples were collected, they would be collected by scraping the paint down to the base material substrate to ensure collection of all layers of paint. Care would be taken to avoid collection of the underlying substrate to reduce analytical substrate matrix interference.

If collected, paint samples would be submitted to an independent laboratory for the determination of lead content. The laboratory would participate in and accredited by the EPA (U.S. Environmental Protection Agency) for analysis of lead in paint chips through the American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP). Analysis would be conducted by the laboratory following the EPA “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods” (SW-846), Method 7000B “Flame Atomic Absorption Spectrophotometry”. Result of analysis would be reported by the laboratory as the percentage of lead by weight of the total sample (% by wt.).

The presence of lead in other materials, such as lead sheeting, pigmented mortar, lead piping, lead solder, etc. would be noted where observed but not sampled to verify lead content. Lead can be present in these materials to varying degrees, depending on their age of application and should be considered lead-containing until proven otherwise.

A.3 Mercury

The type, quantity and location of mercury-containing equipment and devices in the subject area were determined by visual inspection based on appearance, age and knowledge of historical uses. Sampling for mercury-containing building materials and dismantling of suspect mercury-containing equipment was not performed. Where possible, attempts were made to verify the presence/absence of mercury by gathering additional information such as equipment model number, serial number, etc.

A.4 Silica

The presence of crystalline silica in building materials was determined through visual inspection of building materials only, based on knowledge of the historic use of silica-containing materials in certain building materials. Sampling to verify the presence/absence of silica in building materials was not performed.

A.5 Other Designated Substances

Other designated substances (i.e. acrylonitrile, arsenic, benzene, coke oven emissions, ethylene oxide, isocyanates, and vinyl chloride) are typically not expected to be encountered in building materials as significant constituents or in a form that would represent an exposure concern. These substances were not included in the assessment unless specific information regarding their use (e.g. in a manufacturing process) was provided to us. No sampling for these designated substances was performed.

A.6 Other Hazardous Materials

A.6.1 Chemical Hazards

A.6.1.1 Urea Formaldehyde Foam Insulation (UFFI)

A visual inspection to evaluate the possible presence of Urea Formaldehyde Foam Insulation (UFFI) was conducted in the subject area. Our visual inspection was limited to identifying evidence of possible UFFI installation (i.e. repaired nozzle holes in walls) and overspray at wall/ceiling joints, etc. No destructive testing or material sampling was conducted as part of the assessment.

A.7 Biological Hazards

A.7.1.1 Mould Contamination

A visual inspection to determine the possibility of mould growth was conducted in the subject area. The assessment was limited to identifying evidence of mould growth and water damage (staining, material deterioration, efflorescence, etc.) on the surface of building materials, which may be an indicator of hidden mould growth. No moisture content readings of building materials were taken to determine their current condition. Additionally, destructive testing to confirm the presence/absence of hidden mould growth and material sampling to verify the presence/absence of mould on suspect surfaces was beyond the scope of this assessment.

A.7.1.2 Pest Infestation

The presence and extent of pest infestation in the subject area was based on visually inspecting for evidence of significant pest activity, including signs of nesting, droppings/fecal accumulation, dead insects/carcass accumulation, etc. Evidence of minor pest presence was not considered to be indicative of pest infestation.

A.8 Environmental Hazards

A.8.1 Polychlorinated Biphenyls (PCBs)

The presence of PCB-containing electrical equipment in the subject area was identified through visual inspection and knowledge of the timeline of historical use.

For stand-alone transformers and capacitors, information from the manufacturer nameplate (such as the date of manufacture, dielectric fluid trade name or "Type Number", etc.) was gathered, where possible, to further evaluate if the equipment may contain PCBs. This information was then compared to the information provided in the Environment Canada document entitled "Handbook on PCB's in Electrical Equipment" (Third Edition, April 1988) to aid in identification. Transformers and capacitors confirmed to be manufactured after 1979 were assumed to not contain PCBs. If appropriate information could not be obtained it was assumed that the transformer or capacitor contained PCBs.

For fluorescent light ballasts, a representative number of fixtures were inspected, if possible, for assessment areas that were constructed prior to 1980 and where there was no history or evidence of a complete lighting retrofit. The light fixtures were examined by removing any lenses and ballast covers to expose the ballast and identify information such as ballast make, model number, serial number, and date code. This information was then compared to the information provided in the Environment Canada document entitled "Identification of Lamp Ballasts Containing PCBs" (Report EPS 2/CC/2 (revised) August 1991) to aid in identification. Ballasts that could not be confirmed Non-PCB-containing were assumed to contain PCBs. The light fixtures were not de-energized and ballasts were not removed to obtain manufacturer information that may be on the back of the ballast. If visual confirmation of ballast type could not be made it was assumed that light fixtures in areas constructed prior to 1980 that have not undergone a complete lighting retrofit have PCB-containing ballasts until proven otherwise.

No sampling of materials or fluids within equipment was conducted to verify the presence/absence of PCBs. Inspection and testing of other materials for PCB content, including (but not limited to) caulking, asphalt, oil-based paint, plastics, switches, electric cables and hydraulic fluids was beyond the scope of the assessment.

A.8.2 Ozone Depleting and Global Warming Substances

The presence of fixed equipment likely to contain ozone-depleting substances (ODS) and/or global-warming substances (GWS) was identified through visual inspection and

knowledge of the timeline of historical use. This included equipment such as chillers, air-conditioners, walk-in refrigeration and freezer units and fixed dry-chemical fire extinguishers, where chemicals such as hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs) or halons may be present. Where possible, information regarding the type and quantity of refrigerant present was obtained from the manufacturer nameplate. Our visual assessment was limited to fixed equipment in the subject area and did not include portable equipment such as stand-alone refrigerators, freezers, water coolers, air-conditioners and fire extinguishers, etc.