



**Scope of Work – Designated Substances Abatement/Procedures**  
**Faculty of Information Relocation – Project# P164-25-078**  
**481 Spadina Avenue (Building # 164A) 481 Spadina Avenue, Toronto M5S 2G7**

The intent of this scope is to remove asbestos-containing materials and other designated substances to the extent required for the above-mentioned project. Please follow the project drawings and notes for locations and details. This document also includes procedures to be followed while working with, disturbing or working around the designated substances. Designated substances are defined in O. Reg. 490/09 under the Occupational Health and Safety Act (R.S.O. 1990).

In addition to this scope of work, the project shall be governed in its entirety by the Ontario Occupational Health and Safety Act and any Regulations made under this Act.

Any demolition or other work item that may disturb existing or discovered asbestos-containing materials shall be performed by qualified asbestos workers following appropriate asbestos procedures.

All asbestos abatement work and associated demolition is scheduled to be carried out after regular hours, 6:00 PM to 6:00 AM, all days [NO CHANGE EXPECTED]. Enclosure set-up in vacant areas can be done during regular work hours.

The noise level and worker movement must remain at an absolute minimum within the work areas and in the adjacent corridors.

It is the contractor's responsibility to verify the extent of work, quantities and other site conditions.

For identification of designated substances in building materials, please refer to the *Designated Substances in Building Materials Survey Report [DSSR]* issued for this project.

For demolition of non-asbestos building materials, please follow demolition key notes and demolition plans along with any details included in the project documents. Designated Substances in Building Materials Survey Report [DSSR] issued for this project shall be followed for removal and disposal of Silica and Lead containing materials.

### **TRAINING**

Any worker who may inadvertently come into contact with any asbestos-containing materials in the course of their work for the current project must have at a minimum Asbestos Awareness Training as outlined in the University of Toronto, Asbestos Management Program, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>.

Workers performing any asbestos work will require appropriate training, including respirator fit testing, as identified in Ontario Regulation 278/05 and the University of Toronto Asbestos Management Program, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>. In case of conflict, the more stringent procedures shall apply.

Workers performing removal or disturbance of surfaces applied with lead based paint and lead-containing materials shall have appropriate training, including respirator fit testing, as identified in Ontario Ministry of Labour, Immigration, Training and Skills Development Guidelines for Lead on Construction Projects, available at <https://www.labour.gov.on.ca/english/hs/pubs/lead/> and the University of Toronto Lead Management Program/Standard Operating Procedures for the Control of Lead During Building Maintenance and Construction Activities, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>. In case of conflict, the more stringent procedures shall apply.



Workers performing removal or disturbance of silica-containing materials shall have appropriate training, including respirator fit testing, as identified in Ontario Ministry of Labour Guideline “Silica on Construction Projects” available at <https://www.labour.gov.on.ca/english/hs/pubs/silica/> and The University of Toronto “Crystalline Silica Procedures” available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>. In case of conflict, the more stringent procedures shall apply.

Workers performing removal or disturbance of other hazardous materials shall require appropriate trainings as specified in the relevant regulations/guidelines.

**Work will only be allowed once the training certificates of workers working inside asbestos enclosures are verified by the consultants and/or the University of Toronto designated staff.**

### **SCOPE OF WORK DETAILS**

In addition to the scope of work provided below, the project drawings are to be followed for the specific locations of all items described therein and are to be referred to for any specialized notes.

Negative air machines, able to maintain a negative pressure relative to the areas outside the enclosure, will be required for all asbestos enclosures. Prior to the start of the work, the contractor will arrange DOP tests of all negative air machines on site. Removal and reinstating of any components (windows, etc.) if disturbed or removed for the purpose of exhaust outdoors shall be completed by the contractor as part of the base bid price.

All tools or other equipment shall be decontaminated by using a vacuum equipped with a HEPA filter and by damp wiping/washing when leaving the asbestos containment area.

The abatement work and procedures provided in the Sections below shall be completed by the contractor.

All items of the scope of work listed below are part of the Base Bid Price.

#### **1. SECTION 1: Flooring Removal**

The status of flooring materials within the current project locations is given below:

<b>Flooring Type</b>	<b>Locations</b>
Under carpet finishes, single layer of asbestos-containing vinyl tiles with non-asbestos adhesive mastics	T201, T207, T208, T209, T211, T212, T213, T214, T215, T290, T304, T305, T306, T307, T308, T309, T310, T311, T312, T313, T314, T315, T315A, T316, T317, T318, T319, T320, T320A, T321, T322, T323, T327, T328, T401, T404, T407, T408, T409, T410, T411, T412, T413, T414, T415, T416, T417, T419, T422, T423, T424, T425, T427 and T428.
Single layer of asbestos-containing vinyl tiles with non-asbestos adhesive mastics	T390, T391, T392, T393 and T394.
Single layer of non-asbestos vinyl tiles with non-asbestos adhesive mastics	T291, T301, T418, T421, T490, T491, T492, T493, T494, T791, T792, T796 and T796A.
Carpet on concrete with non-asbestos adhesive mastic	T201, T203, T294, T405, T406, T420, T701, T702, T703, T704, T705, T706, T707, T709, T710, T793, T794 and T795.
Ceramic tiles or concrete	T293, T218, T219, T292, T302, T325, T326, T402, T429, T430, T790, T797





- 1.1 Remove and dispose of existing carpet finishes from locations shown on the project drawings. The General Contractor shall exercise caution when removing carpets. If any asbestos-containing tiles come off with the carpet, the same should be removed following Type 1 asbestos procedures and disposed as asbestos waste.
- 1.2 Remove and dispose of asbestos-containing vinyl floor tiles from locations shown on project drawings. Follow asbestos Type 2 procedures (full enclosure minus ceiling). Remove and dispose of floor mastic. The floor mastics/leveling compounds shall be removed to a maximum extent by scraping (non-powered tools). Mastic residual or ridges will not be acceptable; however, a thin film/discoloration on existing flooring will be acceptable as the final clean.
- 1.3 Clean, decontaminate enclosure/s and dispose of the enclosure as asbestos waste upon approval of visual inspection performed by others.

## **2. SECTION 2: Wall Covering Removal, Drywall Removal and Drilling in Drywall**

The status of drywall joint compound applications within the current project locations is given below. Please also refer to the attached floor plan.

<b>Drywall Joint Compounds</b>	<b>Locations</b>
Asbestos-containing (Chrysotile) drywall joint compound applications are present	All service and janitor closets.
Under the wall coverings, asbestos-containing (Chrysotile) drywall joint compound applications are present	Locations with asbestos-containing drywall joint compounds are identified on the attached floor plans. Asbestos abatement scope/procedures shall be followed.
Under the wall coverings, non-asbestos drywall joint compound applications are present	T301, T401A, T416, T423, T427, T490 (at T427).
Non-asbestos drywall joint compound applications are present	T305, T309, T310, T311, T317, T318, T492, T418, T421 and T425. Entire 2 <sup>nd</sup> , 4 <sup>th</sup> and 7 <sup>th</sup> floor.

- 2.1 Type 2 asbestos procedure (drop sheet required but not full enclosure) shall be followed for removal of wall covering on the 3<sup>rd</sup> floor, where wall coverings are directly adhered to gypsum board/drywall.
- 2.2 Removed wall covering adhered directly to the drywall/gypsum board within the 3<sup>rd</sup> floor shall be disposed of as asbestos waste.
- 2.3 Remove and dispose of drywall finishes where shown on project drawings. Follow asbestos Type 2 abatement procedures (full enclosure minus ceiling).
- 2.4 The General Contractor and their subcontractors shall follow the attached Toronto Standard Operating Procedure ID R2.05 for drilling holes in drywall finishes applied with asbestos-containing drywall joint compounds.

## **3. SECTION 3 – Type 1 Asbestos Abatement - Removal and disposal of asbestos-containing fire rated doors/ceiling hatches**

Remove (intact) and dispose of asbestos-containing fire rated doors and fire-rated ceiling hatches as required by the project documents, following Type 1 Asbestos abatement procedures.



#### **4. SECTION 4: Lead Abatement/Procedures Scope of Work Details**

All paint finishes on walls, structural components, windows, doors, bulkheads, baseboards, floors, ceilings, piping systems, ductwork and other mechanical and all other surfaces within the current project locations and other areas of the building should be assumed to contain lead (any lead concentration).

There is no regulatory limit currently in Ontario that determines what amount of lead in paint constitutes the paint to be considered “lead based paint”. The Environmental Abatement Council of Canada (EACC) – Lead Guideline For Construction, Renovation, Maintenance or Repair (2014) recommends that a content of 0.1% (i.e. 1000 µg/g or 1000 mg/kg or 1000 ppm lead) is considered a “de minimis” or “virtually safe” level of lead in paint or surface coatings, provided that aggressive disturbance or heating does not occur.

Follow work procedures and training requirements as identified in Ontario Ministry of Labour, Immigration, Training and Skills Development Guidelines for Lead on Construction Projects, available at <https://www.labour.gov.on.ca/english/hs/pubs/lead/> and the University of Toronto Standard Operating Procedures for the Control of Lead During Building Maintenance and Construction Activities, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>. In case of conflict, the more stringent procedures shall apply for performing the following items’

Work listed below, but are not limited to, involving all lead-containing materials or surfaces applied with lead paint (any concentration), required for the current project, is included in the General Contractor’s scope of work.

- 4.1 Remove and dispose of all fallen paint on floors (both existing and fallen during work) within the current project locations.
- 4.2 Remove and dispose of all loose, bubbling and peeling paint finishes within the current project locations.
- 4.3 Sand, grind, disturb, or remove lead-based materials or surfaces applied with lead paint (any concentration), as required for completion of the project.

Lead-containing waste should be recycled if practicable or handled and disposed of according to Ontario Regulation 347.

#### **5. SECTION 5: Silica abatement/procedures**

Silica-containing materials are present within the current project locations and in other areas throughout the building. Crystalline silica is the primary component of concrete, concrete block, cement, mortar, drywall, etc. where scheduled for disturbance or demolition for the current renovation project.

For any work involving disturbance or removal of silica-containing materials, the Contractor shall follow work procedures and training requirements as identified in:

The Ontario Ministry of Labour Guideline “Silica on Construction Projects” available at <https://www.labour.gov.on.ca/english/hs/pubs/silica/> and The University of Toronto “Crystalline Silica Procedures” available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>. In case of conflict, the more stringent procedures shall apply.

The classification, general measures and procedures (or Type of operations) required, shall depend on the type of work to be conducted and the procedures adopted by the contractor. The following section outlines the classification of silica-containing materials disturbance based on the guidelines and procedures referred above.



### **Type 1 Operations**

- Drilling of holes in concrete or rock that is not part of a tunneling operation or road construction.
- Any other operation at a project that requires the handling of silica-containing material in a way that may result in a worker being exposed to airborne silica.
- 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.

### **Type 2 Operations**

- Removal of silica containing refractory materials with a jackhammer.
- The drilling of holes in concrete or rock that is part of a tunneling or road construction.
- The use of a power tool to cut, grind, or polish concrete, masonry, terrazzo or refractory materials.
- The use of a power tool to remove silica containing materials.
- Tuckpoint and surface grinding.
- Dry mortar removal with an electric or pneumatic cutting device.
- Dry method dust cleanup from abrasive blasting operations.
- Entry into area where abrasive blasting is being carried out for more than 15 minutes.

### **Type 3 Operations**

- Abrasive blasting with an abrasive that contains  $\geq 1$  per cent silica.
- Abrasive blasting of a material that contains  $\geq 1$  per cent silica.

## **6. SECTION 6 – Mould Remediation**

Work of mould remediation, listed below is included in the General Contractor's scope of work.

- 6.1 Remove mould contamination present under the wall covering of door# T203/T204 wall.
- 6.2 Remove efflorescence present under sinks and urinals in washrooms within the current project locations.
- 6.3 Remove stained ceiling tiles are present in washrooms 796 and 796A.

Mould remediation shall follow procedures, as per the [UofT Mould Control Program](#) and UofT's [Procedures for Mould Remediation](#).

## **7. SECTION 7: General**

- 7.1 In addition to this Scope of Work, the project shall be governed by the following. In the event of any conflict, the most stringent shall apply.
  - 7.1.1 Ontario Regulation 278/05, Occupational Health and Safety Act.
  - 7.1.2 University of Toronto Asbestos Management Program, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>
  - 7.1.3 Ontario Ministry of Labour, Immigration, Training and Skills Development Guidelines for Lead on Construction Projects, available at <https://www.labour.gov.on.ca/english/hs/pubs/lead/>
  - 7.1.4 University of Toronto Lead Management Program for Building Maintenance and Construction Projects Standard/Standard Operating Procedures for the Control of Lead, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>



- 7.1.5 Ontario Ministry of Labour Guideline “Silica on Construction Projects” available at <https://www.labour.gov.on.ca/english/hs/pubs/silica/>
- 7.1.6 University of Toronto “Crystalline Silica Procedures” available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>
- 7.2 Rip-proof (orange) polyethylene sheet (6 mill thickness) shall be used for all enclosures and drop sheets.
- 7.3 All asbestos waste shall be placed into asbestos waste receptacles. Asbestos waste must be double-bagged or double-contained, in receptacles that are clearly marked as containing asbestos. The bags or containers shall be selected to prevent any perforations or tears during filling, transport and disposal. The bags shall be rip-proof Polyethylene bags sealed with duct tape. The outer bags must be HEPA vacuumed or damp-wiped to remove any surface contamination immediately before being removed from the work area.
- 7.4 Ventilation to and from the work area will be cut and capped or isolated during the work. The contractor will be required to temporarily seal (polyethylene sheet seals) all ventilation inlets and outlets.
- 7.5 Quality Control inspections will be performed by a consultant throughout the project. Any contamination of surround areas indicated by visual inspection or air monitoring will require complete enclosure and clean-up of the affected areas without any extra cost to the University of Toronto.
- 7.6 The contractor to protect against any damage to all electrical/mechanical systems, sprinklers, cables, conduits, etc. during the execution of work.
- 7.7 All bagged and other normal construction waste disposal shall be done on dates and times coordinated with the Project Manager. The bin cannot stay for any length of time. Waste shall be stored on site unless a sufficient quantity accumulates. The bin shall be dropped off late in the evening and removed by early the next morning.

**8. SECTION 8: Isolation/Installation Responsibilities (For abatement work)**

<b><u>Item</u></b>	<b><u>Responsibility</u></b>
8.1 Ventilation shutdowns	Arranged by Project Manager
8.2 Ventilation cut and cap	Arranged by Project Manager
8.3 Monitoring asbestos abatement	Arranged by Project Manager



January 14, 2026

Attention: Mr. Hany Khalil

**Re: Designated Substances in Building Materials Survey Report [DSSR]  
Faculty of Information Relocation – Project# P164-25-078  
481 Spadina Avenue (Building #164A)**

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Dear Mr. Khalil:

Further to your request, F&S Hazardous Construction Materials Group (HCMG) is pleased to provide the University Planning, Design & Construction (UPDC) this final report summarizing the observations made during a review of available reports, abatement records, bulk sampling records and current investigations/sampling for accessible designated substances in building materials for the above captioned project at the University of Toronto building located at 481 Spadina Avenue, Toronto.

Ontario Regulation 490/09 - Designated Substances (O. Reg. 490/09), made under the Occupational Health and Safety Act, outlines required steps to control exposure of workers to designated substances. Under O. Reg. 490/09, there are eleven (11) designated substances: acrylonitrile, arsenic, asbestos, benzene, coke oven emissions, ethylene oxide, isocyanates, lead, mercury, silica and vinyl chloride. This regulation applies to every employer and worker at a workplace where the designated substances are present, produced, processed, used, handled or stored and at which a worker is likely to be exposed to the designated substance. This assessment, issued for the above-mentioned project, satisfies the Owner's requirements under Section 30 of the Ontario Occupational Health and Safety Act (OHSA), Revised Statutes of Ontario 1990, as amended.

This report provides the status of designated substances in specific for the current project locations on the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, and 7<sup>th</sup> floors and in general for the remaining areas of the building.

For a detailed current project designated substances abatement scope of work, please refer to the following document issued for this project:

Scope of Work – Designated Substances Abatement/Procedures  
Faculty of Information Relocation – Project# P164-25-078  
481 Spadina Avenue (Building #164A)

This report covers building materials only and does not cover any laboratory equipment, chemicals, biological agents, radiological material or radiation sources, fume hoods, laboratory bench tops, cabinetry and/or associated ductwork. Fume hoods, laboratory bench tops, cabinetry and associated ductwork should be tested for the above agents and if present should be appropriately decontaminated before any disturbance, work, removal or disposal.

In the event the General Contractor observes any suspect asbestos-containing material, which is not included in the sections below, the work shall be stopped immediately and the Project Manager contacted to arrange further investigation and abatement.

### **OBSERVATIONS AND RECOMMENDATIONS**

Based on a review of the available reports, bulk sampling records, abatement records and current investigations/sampling for accessible designated substances in building materials, the following are our observations and recommendations.





## **EXECUTIVE SUMMARY**

The following summary of designated substances in building materials gives significant conclusions of the past and current assessment of this building. Details are provided in the report sections.

<ul style="list-style-type: none"> <li>• Friable asbestos-containing (Chrysotile) thermal mechanical insulation is present on plumbing pipe systems in the service/electrical closets and select other areas of the building.</li> </ul>
<ul style="list-style-type: none"> <li>• Non-friable asbestos-containing (Chrysotile) vinyl flooring (predominantly under carpets) is present within the current project locations and other areas of the building.</li> </ul>
<ul style="list-style-type: none"> <li>• Non-friable asbestos-containing drywall joint compounds are present within the current project locations and other areas of this building.</li> </ul>
<ul style="list-style-type: none"> <li>• Asbestos-containing texture coat finishes are present on the walls of stairways within the current project locations as well as other stairways in this building.</li> </ul>
<ul style="list-style-type: none"> <li>• Skim coat-like material present on the ceiling of stairways within the current project locations as well as other stairways in this building shall be considered to contain asbestos.</li> </ul>
<ul style="list-style-type: none"> <li>• Non-friable asbestos-containing sealant underneath the paint on block masonry and concrete walls is present only in the basement of this building.</li> </ul>
<ul style="list-style-type: none"> <li>• Asbestos-containing window caulking/glazing putty (non-friable) is present of exterior windows of this building.</li> </ul>
<ul style="list-style-type: none"> <li>• Fire rated doors and hatches within the current project locations and other areas of this building shall be considered to contain friable asbestos core material.</li> </ul>
<ul style="list-style-type: none"> <li>• Glue pucks (if present) behind the noticeboards and blackboards within the current project locations and other areas of this building shall be considered to contain non-friable asbestos.</li> </ul>
<ul style="list-style-type: none"> <li>• Lay-in ceiling and stick-on ceiling tiles (including adhesive glue) in this building do not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material obtained from the building.</li> </ul>
<ul style="list-style-type: none"> <li>• Plaster finishes in this building do not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material obtained from the building.</li> </ul>
<ul style="list-style-type: none"> <li>• Wallpaper/coverings in this building do not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material obtained from the building.</li> </ul>
<ul style="list-style-type: none"> <li>• Baseboard adhesive in this building does not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material.</li> </ul>
<ul style="list-style-type: none"> <li>• Interior window frame caulking within the current project locations does not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material.</li> </ul>
<ul style="list-style-type: none"> <li>• Door caulking within the current project locations does not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material.</li> </ul>
<ul style="list-style-type: none"> <li>• Epoxy flooring material present in the washrooms of the current project locations does not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material.</li> </ul>
<ul style="list-style-type: none"> <li>• Sink/countertop caulking within the current project locations does not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material.</li> </ul>
<ul style="list-style-type: none"> <li>• Roofing materials in this building do not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material obtained from the building.</li> </ul>
<ul style="list-style-type: none"> <li>• Lead-containing paint finishes are present.</li> </ul>



<ul style="list-style-type: none"> <li>• Elemental mercury is suspected to be present.</li> </ul>
<ul style="list-style-type: none"> <li>• Silica-containing materials are present.</li> </ul>
<ul style="list-style-type: none"> <li>• Mould is present in select current project locations.</li> </ul>

### **ASBESTOS**

If removal or disturbances of asbestos-containing materials is required, all procedures as defined in Ontario Regulation 278/05 and the University of Toronto Asbestos Control Program, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/> shall be followed. In case of conflict the more stringent procedures shall apply.

Removal of asbestos-containing materials must be conducted by a qualified abatement contractor and all appropriate procedures as detailed in this report and applicable regulations shall be followed.

### **Thermal mechanical insulation**

No asbestos-containing thermal mechanical insulation is present at accessible areas of the current project locations.

Friable asbestos-containing (Chrysotile) thermal mechanical insulation is present on plumbing pipe straights, valves, tees, elbows and other fittings in service/electrical closets at all levels, mechanical room and select areas of this building.

Other accessible plumbing systems in majority of this building are either not insulated or insulated with non-asbestos materials.

Friable asbestos-containing thermal insulation may exist in currently inaccessible and hidden wall/ceiling/floor penetrations and cavities. Any insulation material identified or discovered in such locations shall be assumed to contain asbestos unless proven otherwise through confirmatory sampling.

No removal or disturbance of asbestos-containing thermal mechanical insulation shall proceed without following the appropriate asbestos procedures as listed below.

- Removal of asbestos-containing thermal mechanical insulation shall follow Type 2, Type 2 glove bag or Type 3 asbestos abatement procedures based on quantity and location of materials to be removed [Type 2 procedures for one square meter or less area of asbestos insulation to be removed (inside an enclosure), Type 3 procedures for greater than one square meter of asbestos insulation to be removed (inside an enclosure)].

### **Vinyl and other flooring materials**

The status of flooring materials within the current project locations is given below:

<b>Flooring Type</b>	<b>Locations</b>
Under carpet finishes, single layer of asbestos-containing vinyl tiles with non-asbestos adhesive mastics	T201, T207, T208, T209, T211, T212, T213, T214, T215, T290, T304, T305, T306, T307, T308, T309, T310, T311, T312, T313, T314, T315, T315A, T316, T317, T318, T319, T320, T320A, T321, T322, T323, T327, T328, T401, T404, T407, T408, T409, T410, T411, T412, T413, T414, T415, T416, T417, T419, T422, T423, T424, T425, T427 and T428.
Single layer of asbestos-containing vinyl tiles with non-asbestos adhesive mastics	T390, T391, T392, T393 and T394.



Flooring Type	Locations
Single layer of non-asbestos vinyl tiles with non-asbestos adhesive mastics	T291, T301, T418, T421, T490, T491, T492, T493, T494, T791, T792, T796 and T796A.
Carpet on concrete with non-asbestos adhesive mastic	T201, T203, T294, T405, T406, T420, T701, T702, T703, T704, T705, T706, T707, T709, T710, T793, T794 and T795.
Ceramic tiles or concrete	T293, T218, T219, T292, T302, T325, T326, T402, T429, T430, T790, T797

Floor finishes in remaining areas of the building consist of both asbestos-containing (Chrysotile) and non-asbestos vinyl floor tiles. All vinyl floor tiles (non-friable) in the building shall be considered to contain asbestos unless proven otherwise through confirmatory sampling or a review of available sampling records.

Based on laboratory analytical results of homogeneous bulk asbestos samples, all floor mastics present under the vinyl floor tiles and carpet finishes in this building can be considered not to contain asbestos.

No removal or disturbance of asbestos-containing vinyl floor tiles shall proceed without following the appropriate asbestos procedures as listed below.

- Type 2 (full enclosure) asbestos abatement procedures shall be followed for the removal of asbestos-containing vinyl floor tiles.
- Under the University of Toronto Asbestos Management Program, the design or work should not include installing rigid flooring over existing asbestos-containing vinyl floor tiles or sheeting.

A summary of analytical results of bulk samples of vinyl and other flooring materials collected to date from this building is presented below. Copies of laboratory analytical results are attached at Appendix A.

481 Spadina Avenue (Building #164A) Summary of Analysis of Vinyl and Other Flooring Materials Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	164A-130525-3A	Room T791	12x12 Off-white with diamond pebbles a) Tile b) Black mastic	None Detected None Detected
2	164A-130525-3B	Room T791	12x12 Off-white with diamond pebbles a) Tile b) Black mastic	None Detected None Detected
3	164A-130525-3C	Room T791	12x12 Off-white with diamond pebbles a) Tile b) Black mastic	None Detected None Detected
4	164A-130525-5A	Room T792	12x12 Beige with white & brown pebbles a) Tile b) Black mastic	None Detected None Detected
5	164A-130525-5B	Room T796	12x12 Beige with white & brown pebbles a) Tile b) Black mastic	None Detected None Detected
6	164A-130525-5C	Room T796A	12x12 Beige with white & brown pebbles a) Tile b) Black mastic	None Detected None Detected
7	164A-130525-10A	Room T793	Flor mastic	None Detected



<b>481 Spadina Avenue (Building #164A)</b> <b>Summary of Analysis of Vinyl and Other Flooring Materials Bulk Samples</b>				
<b>Sr. No.</b>	<b>Sample Number</b>	<b>Location</b>	<b>Material Description</b>	<b>Asbestos Content</b>
8	164A-130525-10B	Room T707	Flor mastic	None Detected
9	164A-130525-10C	Room T701	Flor mastic	None Detected
10	164A-140525-4A	Room T610	12x12 Cream with black/grey pebbles a) Tile b) Colorless mastic	None Detected None Detected
11	164A-140525-4B	Room T609	12x12 Cream with black/grey pebbles a) Tile b) Colorless mastic	None Detected None Detected
12	164A-140525-4C	Room T621	12x12 Cream with black/grey pebbles a) Tile b) Colorless mastic	None Detected None Detected
13	164A-140525-5A	Room T611	12x12 Grey painted a) Tile b) Yellow mastic	None Detected None Detected
14	164A-140525-5B	Room T618	12x12 Grey painted a) Tile b) Yellow mastic	None Detected None Detected
15	164A-140525-5C	Room T619	12x12 Grey painted a) Tile b) Yellow mastic	None Detected None Detected
16	164A-140525-8A	Room T690	12x12 Off-White with grey streaks a) Tile b) Black mastic	Chrysotile 1% None Detected
17	164A-140525-8B	Room T690	12x12 Off-White with grey streaks a) Tile b) Black mastic	Not Analyzed None Detected
18	164A-140525-8C	Room T692	12x12 Off-White with grey streaks a) Tile b) Black mastic	Not Analyzed None Detected
19	164A-150525-4A	Room T501	Under carpet floor mastic	None Detected
20	164A-150525-4B	Room T509	Under carpet floor mastic	None Detected
21	164A-150525-4C	Room T511	Under carpet floor mastic	None Detected
22	164A-150525-5A	Room T593	12x12 Grey grey/black/white streaks a) Tile b) Yellow mastic	None Detected None Detected
23	164A-150525-5B	Room T594	12x12 Grey grey/black/white streaks a) Tile b) Yellow mastic	None Detected None Detected
24	164A-150525-5C	Room T594	12x12 Grey grey/black/white streaks a) Tile b) Yellow mastic	None Detected None Detected
25	164A-150525-6A	Room T504 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) Tile	None Detected Chrysotile 1%



<b>481 Spadina Avenue (Building #164A)</b> <b>Summary of Analysis of Vinyl and Other Flooring Materials Bulk Samples</b>				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
26	164A-150525-6B	Room T505 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) NA c) Black mastic	None Detected Not Analyzed Chrysotile <0.5%
27	164A-150525-6C	Room T510 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) NA c) Black mastic	None Detected Not Analyzed None Detected
28	164A-160525-1A	Room T401 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) Tile c) Black mastic	None Detected Chrysotile 1% None Detected
29	164A-160525-1B	Room T404 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) NA c) Black mastic	None Detected Not Analyzed None Detected
30	164A-160525-1C	Room T407 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) NA c) Black mastic	None Detected Not Analyzed None Detected
31	164A-160525-3A	Room T406	Under carpet floor mastic a) Black/brown mastic b) Grey cementitious	None Detected None Detected
32	164A-160525-3B	Room T405	Under carpet floor black/brown mastic	None Detected
33	164A-160525-3C	Room T420	Under carpet floor black/brown mastic	None Detected
34	164A-160525-7A	Room T418	12x12 Grey with grey/white streaks a) Tile b) Black mastic	None Detected None Detected
35	164A-160525-7B	Room T418	12x12 Grey with grey/white streaks a) Tile b) Black mastic	None Detected None Detected
36	164A-160525-7C	Room T418	12x12 Grey with grey/white streaks a) Tile b) Black mastic	None Detected None Detected
37	164A-160525-8A	Room T421	12x12 Black with white pebbles	None Detected
38	164A-160525-8B	Room T421	12x12 Black with white pebbles	None Detected
39	164A-160525-8C	Room T421	12x12 Black with white pebbles	None Detected
40	164A-160525-9A	Room T422 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) Tile c) Black mastic	None Detected Chrysotile 1% None Detected
41	164A-160525-9B	Room T413 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) NA c) Black mastic	None Detected Not Analyzed None Detected





<b>481 Spadina Avenue (Building #164A)</b> <b>Summary of Analysis of Vinyl and Other Flooring Materials Bulk Samples</b>				
<b>Sr. No.</b>	<b>Sample Number</b>	<b>Location</b>	<b>Material Description</b>	<b>Asbestos Content</b>
42	164A-160525-9C	Room T401 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) NA c) Black mastic	None Detected Not Analyzed None Detected
43	164A-160525-10A	Room T490	12x12 Grey grey/black/white streaks a) Colourless mastic b) Tile c) Black mastic	None Detected None Detected None Detected
44	164A-160525-10B	Room T491	12x12 Grey grey/black/white streaks a) Tile b) Black mastic	None Detected None Detected
45	164A-160525-10C	Room T492	12x12 Grey grey/black/white streaks a) Tile b) Black mastic	None Detected None Detected
46	164A-160525-11A	Room T301	12x12 Cream with diamond pebbles a) Tile b) Yellow mastic	None Detected None Detected
47	164A-160525-11B	Room T301	12x12 Cream with diamond pebbles a) Tile b) Yellow mastic	None Detected None Detected
48	164A-160525-11C	Room T301	12x12 Cream with diamond pebbles a) Tile b) Yellow mastic	None Detected None Detected
49	164A-160525-12A	Room T304 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) Tile c) Black mastic d) Grey cementitious	None Detected Chrysotile 1% None Detected None Detected
50	164A-160525-12B	Room T310 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) NA c) Black mastic d) Grey cementitious	None Detected Not analyzed None Detected None Detected
51	164A-160525-12C	Room T322 under carpet	12x12 Off-white with grey streaks a) Tile b) Black mastic	Not analyzed None Detected
52	164A-160525-13A	Room T390	12x12 Grey grey/black/white streaks a) Tile b) Colourless mastic	None Detected None Detected
53	164A-160525-13B	Room T391	12x12 Grey grey/black/white streaks a) Tile b) Colourless mastic c) Tile	None Detected None Detected Chrysotile 1%
54	164A-160525-13C	Room T392	12x12 Grey grey/black/white streaks a) Tile b) Colourless mastic	None Detected None Detected
55	164A-200525-1A	Room T201	Under carpet floor mastic	None Detected
56	164A-200525-1B	Room T203	Under carpet floor mastic	None Detected



<b>481 Spadina Avenue (Building #164A)</b> <b>Summary of Analysis of Vinyl and Other Flooring Materials Bulk Samples</b>				
<b>Sr. No.</b>	<b>Sample Number</b>	<b>Location</b>	<b>Material Description</b>	<b>Asbestos Content</b>
57	164A-200525-1C	Room T294	Under carpet floor mastic	None Detected
58	164A-200525-7A	Room T207 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) Tile c) Black mastic	None Detected Chrysotile 1% None Detected
59	164A-200525-7B	Room T209 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) Tile c) Black mastic	None Detected Not Analyzed None Detected
60	164A-200525-7C	Room T290 under carpet	12x12 Off-white with grey streaks a) Yellow mastic b) Tile	None Detected Not Analyzed
61	164A-200525-8A	Room T210	12x12 grey with grey/white streaks a) Tile b) Yellow mastic	None Detected None Detected
62	164A-200525-8B	Room T210	12x12 grey with grey/white streaks a) Tile b) Yellow mastic	None Detected None Detected
63	164A-200525-8C	Room T210	12x12 grey with grey/white streaks a) Tile b) Yellow mastic	None Detected None Detected
64	164A-200525-9A	Room T291	12x12 Grey with black/grey/white streaks a) Tile b) Yellow mastic	None Detected None Detected
65	164A-200525-9B	Room T291	12x12 Grey with black/grey/white streaks a) Tile b) Yellow mastic	None Detected None Detected
66	164A-200525-9C	Room T291	12x12 Grey with black/grey/white streaks a) Tile b) Yellow mastic	None Detected None Detected
67	164A-210525-3A	Room T102C	12x12 Off-white with grey streaks a) Yellow mastic b) Tile c) Black mastic	None Detected Chrysotile 1% None Detected
68	164A-210525-3B	Room T102C	12x12 Off-white with grey streaks a) Yellow mastic b) Tile c) Black mastic	None Detected Not Analyzed None Detected
69	164A-210525-3C	Room T102C	12x12 Off-white with grey streaks a) Yellow mastic b) Tile c) Black mastic	None Detected Not Analyzed None Detected
70	164A-210525-4A	Room T110	12x12 Grey with black/grey/white pebbles a) Tile b) Black mastic	None Detected None Detected
71	164A-210525-4B	Room T113	12x12 Grey with black/grey/white pebbles a) Tile b) Black mastic	None Detected None Detected



<b>481 Spadina Avenue (Building #164A)</b> <b>Summary of Analysis of Vinyl and Other Flooring Materials Bulk Samples</b>				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
72	164A-210525-4C	Hallway T193	12x12 Grey with black/grey/white pebbles a) Tile b) Black mastic	None Detected None Detected
73	164A-210525-5A	Room T115	12x12 Grey with Grey/white pebbles a) Tile b) Yellow mastic	None Detected None Detected
74	164A-210525-5B	Room T117	12x12 Grey with Grey/white pebbles a) Tile b) Yellow mastic	None Detected None Detected
75	164A-210525-5C	Hallway T120	12x12 Grey with Grey/white pebbles a) Tile b) Yellow mastic	None Detected None Detected
76	164A-300525-1A	Hallway TB91	12x12 Green with white streaks a) Tile b) Black mastic	Chrysotile 1% None Detected
77	164A-300525-1B	Hallway TB91	12x12 Green with white streaks a) Tile b) Black mastic	Not Analyzed None Detected
78	164A-300525-1C	Hallway TB91	12x12 Green with white streaks a) Tile b) Black mastic	Not Analyzed None Detected
79	164A-300525-2A	Hallway TB91	12x12 Cream with beige streaks	None Detected
80	164A-300525-2B	Hallway TB91	12x12 Cream with beige streaks a) Tile b) Yellow mastic	None Detected None Detected
81	164A-300525-2C	Hallway TB91	12x12 Cream with beige streaks	None Detected

### **Drywall joint compound and walls with wallpaper/coverings**

Wall configurations within the current project locations and other areas of the building consist primarily of the following:

1. Drywall/gypsum board with both asbestos-containing and non-asbestos drywall joint compound applications.
2. Drywall/gypsum boards with both asbestos-containing and non-asbestos drywall joint compound applications under the wallpaper/covering.
3. Drywall/gypsum boards (with no drywall joint compound applications) under non-asbestos plaster under wallpaper/covering.

The status of drywall joint compound applications within the current project locations is given below. Please also refer to the floor plan attached at Appendix C.



Drywall Joint Compounds	Locations
Asbestos-containing (Chrysotile) drywall joint compound applications are present	All service and janitor closets.
Under the wall coverings, asbestos-containing (Chrysotile) drywall joint compound applications are present	Locations with asbestos-containing drywall joint compounds are identified on the attached floor plans. Asbestos abatement scope/procedures shall be followed.
Under the wall coverings, non-asbestos drywall joint compound applications are present	T301, T401A, T416, T423, T427, T490 (at T427).
Non-asbestos drywall joint compound applications are present	T305, T309, T310, T311, T317, T318, T492, T418, T421 and T425. Entire 2 <sup>nd</sup> , 4 <sup>th</sup> and 7 <sup>th</sup> floor.

Gypsum board and drywall finishes in other areas of the building consist of both asbestos-containing (Chrysotile) and non-asbestos drywall joint compound applications. All gypsum board and drywall finishes in other areas of the building shall be considered to have non-friable asbestos-containing drywall joint compound applications unless proven otherwise through confirmatory sampling or a review of available sampling records.

Wallpaper/covering in this building does not contain asbestos, based on laboratory analytical results of samples of this homogeneous material.

No removal or disturbance of gypsum board and drywall finishes applied with asbestos-containing drywall joint compound within the building shall proceed without following the appropriate asbestos procedures as listed below.

- Type 1 or Type 2 (full enclosure) asbestos abatement procedures shall be followed for removal of gypsum board and drywall finishes applied with asbestos-containing drywall joint compounds based on the quantity of materials to be removed [Type 1 procedures if one square meter or less area of gypsum board and drywall finishes applied with asbestos-containing drywall joint compound is to be removed, Type 2 procedures if greater than one square meter area of gypsum board and drywall finishes applied with asbestos-containing drywall joint compound is to be removed]. Removed drywall shall be disposed as asbestos waste.
- The University of Toronto Standard Operating Procedure ID R2.05, attached at Appendix B, shall be followed for drilling holes in drywall finishes applied with asbestos-containing drywall joint compounds.

A summary of analytical results of bulk samples of drywall joint compounds and wall coverings collected to date from this building is presented below. Copies of laboratory analytical results are attached at Appendix A.

481 Spadina Avenue (Building #164A) Summary of Analysis of Drywall Joint Compounds and Wall Coverings Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	S0028A	Room T792	Drywall Joint Compound	None Detected
2	S0028B	Room T792	Drywall Joint Compound	None Detected
3	S0028C	Room T117	Drywall Joint Compound	None Detected
4	S0028D	Room T117	Drywall Joint Compound	None Detected
5	S0028E	Room T117	Drywall Joint Compound	None Detected



481 Spadina Avenue (Building #164A) Summary of Analysis of Drywall Joint Compounds and Wall Coverings Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
6	S0029A	Room T792	Drywall Joint Compound	None Detected
7	S0029B	Room T792	Drywall Joint Compound	None Detected
8	S0029C	Room T613	Drywall Joint Compound	None Detected
9	S0029D	Room T613	Drywall Joint Compound	None Detected
10	S0029E	Room T492	Drywall Joint Compound	None Detected
11	S0029F	Room T125 Janitor Closet	Drywall Joint Compound	Chrysotile 1%
12	S0029G	Room T125 Janitor Closet	Drywall Joint Compound	Chrysotile 1%
13	164A-130525-1A	Mechanical Room T797	Drywall Joint Compound	None Detected
14	164A-130525-1B	Room T795	Drywall Joint Compound	None Detected
15	164A-130525-1C	Room T709	Drywall Joint Compound	None Detected
16	164A-130525-1D	Room T707	Drywall Joint Compound	None Detected
17	164A-130525-1E	Room T704	Drywall Joint Compound	None Detected
18	164A-130525-1F	Room T701	Drywall Joint Compound	None Detected
19	164A-140525-1A	Room T601	Drywall Joint Compound	None Detected
20	164A-140525-1B	Room T607	Drywall Joint Compound	None Detected
21	164A-140525-1C	Room T612A	Drywall Joint Compound	None Detected
22	164A-140525-1D	Room T613B	Drywall Joint Compound	None Detected
23	164A-140525-1E	Room T617	Drywall Joint Compound	None Detected
24	164A-140525-1F	Room T611	Drywall Joint Compound	None Detected
25	164A-150525-1E	Room T532	Drywall Joint Compound	None Detected
26	164A-150525-1F	Room T592	Drywall Joint Compound	None Detected
27	164A-160525-4F	Room T430	Drywall Joint Compound c) White DWJC b) Off-White DWJC	None Detected Chrysotile 3%
28	164A-160525-17A	Room T325	Drywall Joint Compound	Chrysotile 3%
29	164A-160525-17B	Room T327	Drywall Joint Compound	Not Analyzed
30	164A-160525-17C	Room T393	Drywall Joint Compound	Not Analyzed
31	164A-160525-17D	Room T392	Drywall Joint Compound	Not Analyzed
32	164A-160525-17E	Room T391	Drywall Joint Compound	Not Analyzed
33	164A-160525-17F	Room T390	Drywall Joint Compound	Not Analyzed
34	164A-200525-10A	Room T201	Drywall Joint Compound	None Detected
35	164A-200525-10B	Room T207	Drywall Joint Compound	None Detected
36	164A-200525-10C	Room T209	Drywall Joint Compound	None Detected
37	164A-200525-10D	Room T212	Drywall Joint Compound	None Detected
38	164A-200525-10E	Room T213	Drywall Joint Compound	None Detected
39	164A-200525-10F	Room T290	Drywall Joint Compound	None Detected





481 Spadina Avenue (Building #164A) Summary of Analysis of Drywall Joint Compounds and Wall Coverings Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
40	164A-210525-2A	Room T102C	Drywall Joint Compound a) White DWJC b) Off-white DWJC	None Detected None Detected
41	164A-210525-2B	Room T109A	Drywall Joint Compound a) White DWJC b) Off-white DWJC	None Detected None Detected
42	164A-210525-2C	Room T110	Drywall Joint Compound	None Detected
43	164A-210525-2D	Room T116	Drywall Joint Compound	None Detected
44	164A-210525-2E	Room T120	Drywall Joint Compound	None Detected
45	164A-210525-2F	Hallway T193 (adjacent T102B)	Drywall Joint Compound	None Detected
46	164A-170625-1A	Room T505	Drywall Joint Compound	None Detected
47	164A-170625-1B	Room T507	Drywall Joint Compound	None Detected
48	164A-170625-1C	Room T515	Drywall Joint Compound	None Detected
49	164A-170625-1D	Room T590	Drywall Joint Compound	None Detected
50	164A-170625-2A	Room T492	Drywall Joint Compound	None Detected
51	164A-170625-2B	Room T418	Drywall Joint Compound	None Detected
52	164A-170625-2C	Room T421	Drywall Joint Compound	None Detected
53	164A-170625-2E	Room T425	Drywall Joint Compound	None Detected
54	164A-091225-10A	Room T305	Drywall Joint Compound	None Detected
55	164A-091225-10B	Room T305	Drywall Joint Compound	None Detected
56	164A-091225-10C	Room T305	Drywall Joint Compound	None Detected
57	164A-121225-1A	Room T317	Drywall Joint Compound	None Detected
58	164A-121225-1B	Room T318	Drywall Joint Compound	None Detected
59	164A-121225-1C	Room T328	Drywall Joint Compound	Chrysotile 1%
60	164A-070126-1A	Room T309	Drywall Joint Compound	None Detected
61	164A-070126-1B	Room T310	Drywall Joint Compound	None Detected
62	164A-070126-1C	Room T311	Drywall Joint Compound	None Detected
63	164A-070126-2A	Room T317	Drywall Joint Compound	None Detected
64	164A-070126-2B	Room T318	Drywall Joint Compound	None Detected
65	164A-070126-2C	Room T318	Drywall Joint Compound	None Detected
66	164A-090126-1A	Room T513-under wall covering	Drywall Joint Compound	None Detected
67	164A-090126-1B	Room T512-under wall covering	Drywall Joint Compound a) White joint compound b) White plaster	None Detected
68	164A-090126-1C	Hallway T594@T513-under wall covering	Drywall Joint Compound	None Detected
69	164A-090126-1A	Room T315A-under wall covering	Drywall Joint Compound	Chrysotile 0.5%
70	164A-090126-1B	Room T320-under wall covering	Drywall Joint Compound	Not Analyzed



481 Spadina Avenue (Building #164A) Summary of Analysis of Drywall Joint Compounds and Wall Coverings Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
71	164A-090126-1C	Room T320A-under wall covering	Drywall Joint Compound	Not Analyzed
72	164A-090126-2A	Hallway 390 opposite T318-under wall covering	Drywall Joint Compound	Chrysotile 1%
73	164A-090126-2B	Hallway 390 opposite T318-under wall covering	Drywall Joint Compound	Not Analyzed
74	164A-090126-2C	Hallway 393 @ entrance-under wall covering	Drywall Joint Compound	Not Analyzed
75	164A-090126-3A	Hallway T392	Drywall Joint Compound	None Detected
76	164A-090126-3B	Hallway T392	Drywall Joint Compound	None Detected
77	164A-090126-3C	Hallway T392	Drywall Joint Compound	None Detected
78	164A-090126-4A	Room T301-under wall covering	Drywall Joint Compound	None Detected
79	164A-090126-4B	Room T301-under wall covering	Drywall Joint Compound	None Detected
80	164A-090126-4C	Room T301-under wall covering	Drywall Joint Compound	None Detected
81	164A-090126-5A	Room T401A-under wall covering	Drywall Joint Compound	None Detected
82	164A-090126-5B	Room T416-under wall covering	Drywall Joint Compound	None Detected
83	164A-090126-5C	Room T423-under wall covering	Drywall Joint Compound	None Detected
84	164A-090126-5D	Room T427-under wall covering	Drywall Joint Compound	None Detected
85	164A-300525-7A	Hallway T194	Wall covering and adhesive a) White fibrous b) DWJC c) Mastic	None Detected None Detected None Detected
86	164A-300525-7B	Room T201	Wall covering and adhesive a) White fibrous b) Mastic	None Detected None Detected
87	164A-300525-7C	Room T328	Wall covering and adhesive a) White fibrous b) Mastic	None Detected None Detected
88	164A-300525-7D	Room T424	Wall covering and adhesive a) White fibrous b) Mastic	None Detected None Detected
89	164A-300525-7E	Room T504	Wall covering and adhesive a) White fibrous b) Mastic	None Detected None Detected
90	164A-300525-7F	Hallway T690	Wall covering and adhesive a) White fibrous b) Mastic	None Detected None Detected
91	164A-300525-7G	Hallway T792	Wall covering and adhesive a) White fibrous b) Mastic	None Detected None Detected



### **Plaster**

All plaster finishes (including under the wallpaper/coverings) in this building do not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material obtained from the building.

A summary of analytical results of bulk samples of plaster finishes collected to date from this building is presented below. Copies of laboratory analytical results are attached at Appendix A.

<b>481 Spadina Avenue (Building #164A) Summary of Analysis of Plaster Bulk Samples</b>				
<b>Sr. No.</b>	<b>Sample Number</b>	<b>Location</b>	<b>Material Description</b>	<b>Asbestos Content</b>
1	S0030A	Room T792	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
2	S0030B	Room T792	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
3	S0030C	Room T691	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
4	S0030D	Room T691	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
5	S0030E	Room T492	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
6	S0030F	Room T405	Wall Plaster	None Detected
7	S0030G	Room T405	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
8	S0031A	Room T691	Ceiling Plaster a) White plaster b) Grey plaster	None Detected None Detected
9	S0031B	Room T691	Ceiling Plaster a) White plaster b) Grey plaster	None Detected None Detected
10	S0031C	Room T392	Ceiling Plaster a) White plaster b) Grey plaster	None Detected None Detected
11	S0031D	Room T392	Ceiling Plaster a) White plaster b) Grey plaster	None Detected None Detected
12	S0031E	Room T201	Ceiling Plaster a) White plaster b) Grey plaster	None Detected None Detected
13	S0031F	Room T201	Ceiling Plaster a) White plaster b) Grey plaster	None Detected None Detected
14	S0031G	Room T201	Ceiling Plaster a) White plaster b) Grey plaster	None Detected None Detected
15	164A-130525-2B	Room T790	Wall plaster, grey	None Detected



481 Spadina Avenue (Building #164A) Summary of Analysis of Plaster Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
16	164A-130525-2C	Room T790	Wall plaster, light grey textured	None Detected
17	164A-140525-3A	Room T604	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
18	164A-140525-3B	Room T608	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
19	164A-140525-3C	Room T610	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
20	164A-140525-3D	Room T612A	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
21	164A-140525-3E	Room T613	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
22	164A-140525-3F	Room T617	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
23	164A-150525-1A	Room T501	White plaster per lab analysis	None Detected
24	164A-150525-1B	Room T511	White plaster per lab analysis	None Detected
25	164A-150525-1C	Room T514	White plaster per lab analysis	None Detected
26	164A-150525-1D	Room T527	White plaster per lab analysis	None Detected
27	164A-150525-3A	Room T504	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
28	164A-150525-3B	Room T512	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
29	164A-150525-3C	Room T513	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
30	164A-150525-3D	Room T525	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
31	164A-150525-3E	Room T531	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
32	164A-150525-3F	Room T592	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
33	164A-160525-2A	Room T402	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected



481 Spadina Avenue (Building #164A) Summary of Analysis of Plaster Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
34	164A-160525-2B	Room T404	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
35	164A-160525-2C	Room T408	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
36	164A-160525-2D	Room T412	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
37	164A-160525-2E	Room T416	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
38	164A-160525-2F	Room T421	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
39	164A-160525-16A	Room T315	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
40	164A-160525-16B	Room T317	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
41	164A-160525-16C	Room T320	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
42	164A-160525-16D	Room T320A	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
43	164A-160525-16E	Room T321	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
44	164A-160525-16F	Room T326	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
45	164A-200525-4A	Room T408	White plaster per lab analysis	None Detected
46	164A-200525-4B	Room T409	White plaster per lab analysis	None Detected
47	164A-200525-4C	Room T414	White plaster per lab analysis	None Detected
48	164A-200525-4D	Room T416	White plaster per lab analysis	None Detected
49	164A-200525-4E	Room T421	White plaster per lab analysis	None Detected
50	164A-200525-11A	Room T201	Wall Plaster, white	None Detected
51	164A-200525-11B	Room T203	Wall Plaster a) White plaster b) Light grey	None Detected None Detected





481 Spadina Avenue (Building #164A) Summary of Analysis of Plaster Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
52	164A-200525-11C	Room T207	Wall Plaster a) White plaster b) Leight grey	None Detected None Detected
53	164A-200525-11D	Room T208	Wall Plaster a) White plaster b) Leight grey	None Detected None Detected
54	164A-200525-11E	Room T290	Wall Plaster a) White plaster b) Leight grey	None Detected None Detected
55	164A-200525-11F	Room T294	Wall Plaster a) White plaster b) Leight grey	None Detected None Detected
56	164-210525-1A	Room T101	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
57	164-210525-1B	Room T102C	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
58	164-210525-1C	Room T104	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
59	164-210525-1D	Room T107	Wall Plaster (white DWJC per lab analysis)	None Detected
60	164-210525-1E	Room T110	Wall Plaster a) DWJC b) White plaster c) Grey plaster	None Detected None Detected None Detected
61	164-210525-1F	Room T122	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
62	164A-300525-3A	Room TB21	Wall Plaster a) White plaster b) Black Tar	Chrysotile <0.5% None Detected
63	164A-300525-3B	Room TB22	Wall Plaster	Chrysotile <0.5%
64	164A-300525-3C	Hallway TB91	Wall Plaster a) White plaster b) Grey plaster	None Detected None Detected
65	164A-170625-2D	Room T422	White Plaster	None Detected

### **Texture coat/Stucco Finish**

Asbestos-containing (Chrysotile) texture coat finishes are present on the walls of stairways within the current project locations as well as other stairways in this building. Texture coat is non-friable while in place; however, it becomes friable upon removal.

Skim coat-like material is present on the ceiling of stairways within the current project locations as well as other stairways in this building. This material shall be assumed to contain asbestos. Skim coat is non-friable while in place; however, it becomes friable upon removal.



Texture coat finish present on the ceiling of Room T292 (including façade) shall be assumed to contain asbestos.

Texture coat finish present above the lay-in ceiling tiles in Room T201 does not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material.

No texture coat finishes were observed at other accessible areas of the building.

No removal or disturbance of asbestos-containing texture coat and skim coat finishes shall proceed without following the appropriate asbestos procedures as listed below:

- Type 2 or Type 3 asbestos procedures shall be followed for removal of asbestos-containing texture coat and skim coat finishes based on the quantity of materials to be removed [Type 2 procedures if one square meter or less surface area of texture coat or skim coat finish is to be removed, Type 3 procedures if greater than one square meter surface area of the texture coat or skim coat finish is to be removed].
- The University of Toronto Standard Operating Procedure ID R2.04, attached at Appendix B, shall be followed for drilling holes (each less than ½ inch in diameter) in asbestos-containing texture coat or skim coat finishes.

A summary of analytical results of bulk samples of texture coat finishes collected to date from this building is presented below. Copies of laboratory analytical results are attached at Appendix A.

481 Spadina Avenue (Building #164A) Summary of Analysis of Texture Coat Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	164A-130525-2A	Staircase T790S	Wall Plaster a) White textured b) Grey plaster	Chrysotile 1% None Detected
2	164A-150525-8A	Staircase T693S	Wall texture finish, off-white primer	Chrysotile 0.5%
3	164A-150525-8B	Staircase T594S	Wall texture finish	Not Analyzed
4	164A-150525-8C	Staircase T494S	Wall texture finish	Not Analyzed
5	164A-200525-6A	Room T201 above ceiling tiles	Ceiling texture finish a) White texture b) Grey cementitious	None Detected None Detected
6	164A-200525-6B	Room T201 above ceiling tiles	Ceiling texture finish a) White texture b) Grey cementitious	None Detected None Detected
7	164A-200525-6C	Room T201 above ceiling tiles	Ceiling texture finish a) White texture b) Grey cementitious	None Detected None Detected
8	164A-210525-9A	Staircase T195S	Wall texture finish a) Off white primer b) Grey textured	None Detected None Detected
9	164A-210525-9B	Staircase T290S	Wall texture finish a) Off white primer b) Grey textured	Chrysotile 0.5% None Detected



481 Spadina Avenue (Building #164A) Summary of Analysis of Texture Coat Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
10	164A-210525-9C	Staircase T390S	Wall texture finish	Not Analyzed

### Ceiling Tiles

Based on laboratory analytical results of samples of this homogeneous material obtained from the building, no asbestos-containing lay-in ceiling tiles, stick-on ceiling tiles/adhesives are present within this building.

No drywall joint compound applications were observed on drywall ceilings under 1'x1' ceiling tiles.

A summary of analytical results of bulk samples of ceiling tiles collected to date from the building is given below. Copies of laboratory analytical results are attached at Appendix A.

481 Spadina Avenue (Building #164A) Summary of Analysis of Ceiling Tiles Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	164A-130525-4A	Room T791	2x2 Multiple pinholes	None Detected
2	164A-130525-4B	Room T791	2x2 Multiple pinholes	None Detected
3	164A-130525-4C	Room T791	2x2 Multiple pinholes	None Detected
4	164A-130525-7A	Room T796	2x2 Pinhole fissured	None Detected
5	164A-130525-7B	Room T796	2x2 Pinhole fissured	None Detected
6	164A-130525-7C	Room T796A	2x2 Pinhole fissured	None Detected
7	164A-130525-8A	Room T793	2x4 Pinhole fissured	None Detected
8	164A-130525-8B	Room T794	2x4 Pinhole fissured	None Detected
9	164A-130525-8C	Room T795	2x4 Pinhole fissured	None Detected
10	164A-130525-9A	Room T703	2x4 Pinholes	None Detected
11	164A-130525-9B	Room T706	2x4 Pinholes	None Detected
12	164A-130525-9C	Room T707	2x4 Pinholes	None Detected
13	164A-140525-2A	Room T601	1x1 Ceiling tile	None Detected
14	164A-140525-2B	Room T615	1x1 Ceiling tile	None Detected
15	164A-140525-2C	Room T692	1x1 Ceiling tile	None Detected
16	164A-140525-6A	Room T613	2x4 Pinhole/deep fissured	None Detected
17	164A-140525-6B	Room T613A	2x4 Pinhole/deep fissured	None Detected
18	164A-140525-6C	Room T613B	2x4 Pinhole/deep fissured	None Detected
19	164A-140525-7A	Room T613	2x4 Multi pinhole	None Detected
20	164A-140525-7B	Room T613B	2x4 Multi pinhole	None Detected
21	164A-140525-7C	Room T613B	2x4 Multi pinhole	None Detected
22	164A-140525-9A	Room T601	1x1 Stick-on tile glue	None Detected
23	164A-140525-9B	Room T615	1x1 Stick-on tile glue	None Detected



481 Spadina Avenue (Building #164A) Summary of Analysis of Ceiling Tiles Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
24	164A-140525-9C	Room T692	1x1 Stick-on tile glue	None Detected
25	164A-150525-2A	Room T501	1x1 Stick-on	None Detected
26	164A-150525-2B	Room T509	1x1 Stick-on	None Detected
27	164A-150525-2C	Room T518	1x1 Stick-on	None Detected
28	164A-150525-7A	Room T501	1x1 Stick-on tile glue	None Detected
29	164A-150525-7B	Room T509	1x1 Stick-on tile glue	None Detected
30	164A-150525-7C	Room T518	1x1 Stick-on tile glue	None Detected
31	164A-160525-5A	Room T491	1x1 Stick-on	None Detected
32	164A-160525-5B	Room T490	1x1 Stick-on	None Detected
33	164A-160525-5C	Room T402	1x1 Stick-on	None Detected
34	164A-160525-6A	Room T491	1x1 Stick-on tile glue	None Detected
35	164A-160525-6B	Room T490	1x1 Stick-on tile glue	None Detected
36	164A-160525-6C	Room T402	1x1 Stick-on tile glue	None Detected
37	164A-160525-14A	Room T301	1x1 Stick-on	None Detected
38	164A-160525-14B	Room T310	1x1 Stick-on	None Detected
39	164A-160525-14C	Room T390	1x1 Stick-on	None Detected
40	164A-160525-15A	Room T301	1x1 Stick-on tile glue	None Detected
41	164A-160525-15B	Room T310	1x1 Stick-on tile glue	None Detected
42	164A-160525-15C	Room T390	1x1 Stick-on tile glue	None Detected
43	164A-200525-2A	Room T201	2x2 Multiple pinholes	None Detected
44	164A-200525-2B	Room T210	2x2 Multiple pinholes	None Detected
45	164A-200525-2C	Room T294	2x2 Multiple pinholes	None Detected
46	164A-200525-3A	Room T201	1x1 Stick-on	None Detected
47	164A-200525-3B	Room T203	1x1 Stick-on	None Detected
48	164A-200525-3C	Room T290	1x1 Stick-on	None Detected
49	164A-200525-4A	Room T201	1x1 Stick-on tile glue	None Detected
50	164A-200525-4B	Room T203	1x1 Stick-on tile glue	None Detected
51	164A-200525-4C	Room T290	1x1 Stick-on tile glue	None Detected
52	164A-210525-6A	Room T122	1x1 Stick-on	None Detected
53	164A-210525-6B	Hallway T193 @ T105	1x1 Stick-on	None Detected
54	164A-210525-6C	Hallway T195 @ T122 – above 2x2 lay-in tiles	1x1 Stick-on	None Detected
55	164A-210525-7A	Hallway T194 @ T117 – above 2x2 lay-in tiles	1x1 Stick-on tile glue	None Detected
56	164A-210525-7B	Hallway T194 @ T123 – above 2x2 lay-in tiles	1x1 Stick-on tile glue	None Detected
57	164A-210525-7C	Hallway T195 @ T117 – above 2x2 lay-in tiles	1x1 Stick-on tile glue	None Detected



481 Spadina Avenue (Building #164A) Summary of Analysis of Ceiling Tiles Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
58	164A-210525-8A	Room T110	2x2 Multiple pinholes	None Detected
59	164A-210525-8B	Room T113	2x2 Multiple pinholes	None Detected
60	164A-210525-8C	Hallway T193 @ T115	2x2 Multiple pinholes	None Detected
61	164A-300525-4A	Hallway TB91	2x2 Multiple pinholes	None Detected
62	164A-300525-4B	Hallway TB91	2x2 Multiple pinholes	None Detected
63	164A-300525-4C	Hallway TB91	2x2 Multiple pinholes	None Detected
64	164A-300525-5A	Hallway TB91	1x1 Stick-on	None Detected
65	164A-300525-5B	Hallway TB91	1x1 Stick-on	None Detected
66	164A-300525-5C	Hallway TB91	1x1 Stick-on	None Detected
67	164A-300525-6A	Hallway TB91	1x1 Stick-on tile glue	None Detected
68	164A-300525-6B	Hallway TB91	1x1 Stick-on tile glue	None Detected
69	164A-300525-6C	Hallway TB91	1x1 Stick-on tile glue	None Detected

### **Block Masonry Sealant**

Non-friable asbestos-containing block masonry sealant is present underneath the paint only on the block walls in the basement level of this building. In addition, this material is applied over concrete walls in the basement level.

Block masonry sealant underneath the paint on walls present in remaining areas of the building does not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material.

No removal or disturbance of asbestos-containing block masonry sealant shall proceed without following one of the following asbestos procedures as appropriate.

- The University of Toronto Standard Operating Procedure ID R1.70, attached at Appendix B, shall be used for the disturbance or removal of block masonry walls applied with asbestos-containing sealant underneath the paint, using non-powered hand tools. If working in a public corridor or outside hoarded construction areas, the work must take place inside an asbestos Type 2 enclosure [with negative air pressure] to prevent the spread of construction dust. Bag and dispose all removed cinder blocks as asbestos waste.
- The University of Toronto Standard Operating Procedure ID R2.14, attached at Appendix B, shall be used for the disturbance or removal of block masonry wall applied with asbestos-containing sealant underneath the paint, using HEPA filtered power tools. If working in a public corridor or outside hoarded construction areas, the work must take place inside an asbestos Type 2 enclosure [with negative air pressure] to prevent the spread of construction dust. Follow Type 2 asbestos procedures with full enclosure and negative air pressure relative to the areas outside the enclosure if using powered tools with no HEPA filter. Bag and dispose all removed cinder blocks as asbestos waste.
- The University of Toronto Standard Operating Procedure ID R2.13, attached at Appendix B, shall be followed for drilling holes and removing bolts/screws in masonry walls applied with asbestos-containing sealant underneath the paint.



A summary of analytical results of bulk samples of masonry sealant collected to date from this building is presented below. Copies of laboratory analytical results are attached at Appendix A.

481 Spadina Avenue (Building #164A) Summary of Analysis of Block Masonry Sealant Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	164A-191225-1A	Room TB06	Masonry Sealant	None Detected
2	164A-191225-1B	Room TB12	Masonry Sealant	Chrysotile 0.5%
3	164A-191225-1C	Room TB13	Masonry Sealant	Chrysotile 1%
4	164A-191225-1D	Room TB15	Masonry Sealant	Chrysotile 0.5%
5	164A-191225-1E	Hallway/TB92 @ TB08	Masonry Sealant	Chrysotile 0.5%
6	164A-050126-1A	Room T624 east wall	Masonry Sealant	None Detected
7	164A-050126-1B	Room T624 south wall	Masonry Sealant	None Detected
8	164A-050126-1C	Room T624 west wall	Masonry Sealant	None Detected
9	164A-050126-2A	Room T532 east wall	Masonry Sealant	None Detected
10	164A-050126-2B	Room T532 south wall	Masonry Sealant	None Detected
11	164A-050126-2C	Room T532 west wall	Masonry Sealant	None Detected
12	164A-050126-3A	Room T430 east wall	Masonry Sealant	None Detected
13	164A-050126-3B	Room T430 south wall	Masonry Sealant	None Detected
14	164A-050126-3C	Room T430 west wall	Masonry Sealant	None Detected
15	164A-050126-4A	Room T325 east wall	Masonry Sealant	None Detected
16	164A-050126-4B	Room T325 east wall	Masonry Sealant	None Detected
17	164A-050126-4C	Room T325 east wall	Masonry Sealant	None Detected
18	164A-050126-5A	Room T218 east wall	Masonry Sealant	None Detected
19	164A-050126-5B	Room T218 south wall	Masonry Sealant	None Detected
20	164A-050126-5C	Room T218 west wall	Masonry Sealant	None Detected
21	164A-050126-6A	Room T125 east wall	Masonry Sealant	None Detected
22	164A-050126-6B	Room T125 south wall	Masonry Sealant	None Detected
23	164A-050126-6C	Room T125 west wall	Masonry Sealant	None Detected
24	164A-050126-7A	Room TB02 north wall	Masonry Sealant	None Detected
25	164A-050126-7B	Room TB02 south wall	Masonry Sealant	None Detected



481 Spadina Avenue (Building #164A) Summary of Analysis of Block Masonry Sealant Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
26	164A-050126-7C	Room TB03A west wall	Masonry Sealant a) White primer b) Grey cementitious	None Detected None Detected
27	164A-050126-8A	Room TB03B north wall	Masonry Sealant	Chrysotile 0.5%
28	164A-050126-8B	Room TB03B west wall	Masonry Sealant	Not Analyzed
29	164A-050126-8C	Room TB03C west wall	Masonry Sealant	Not Analyzed
30	164A-050126-9A	Room TB04 north wall	Masonry Sealant	Chrysotile 0.5%
31	164A-050126-9B	Room TB04 west wall	Masonry Sealant	Not Analyzed
32	164A-050126-9C	Room TB05 east wall	Masonry Sealant	Not Analyzed
33	164A-050126-10A	Room TB07 east wall	Masonry Sealant a) Off white primer b) White rubbery material	None Detected None Detected
34	164A-050126-10B	Room TB07 north wall	Masonry Sealant	Chrysotile 0.5%
35	164A-050126-10C	Hallway TB93 at TB11	Masonry Sealant	Not Analyzed
36	164A-050126-11A	Room TB08 north wall	Masonry Sealant	Chrysotile 0.5%
37	164A-050126-11B	Room TB09 east wall	Masonry Sealant	Not Analyzed
38	164A-050126-11C	Room TB09 north wall	Masonry Sealant	Not Analyzed
39	164A-050126-12A	Room TB10 north wall	Masonry Sealant	Chrysotile 0.5%
40	164A-050126-12B	Room TB11 north wall	Masonry Sealant	Not Analyzed
41	164A-050126-12C	Room TB11 west wall	Masonry Sealant	Not Analyzed
42	164A-050126-13A	Room TB14 south wall	Masonry Sealant	Chrysotile 0.5%
43	164A-050126-13B	Room TB14A west wall	Masonry Sealant	Not Analyzed
44	164A-050126-13C	Room TB16A north wall	Masonry Sealant	Not Analyzed
45	164A-050126-14A	Room TB20 south wall	Masonry Sealant	Chrysotile 0.5%
46	164A-050126-14B	Room TB21 south wall	Masonry Sealant	Not Analyzed
47	164A-050126-14C	Room TB22 south wall	Masonry Sealant	Not Analyzed
48	164A-120126-1A	Room TB02 Concrete wall	Masonry Sealant	None Detected
49	164A-120126-1B	Room TB06 Concrete wall	Masonry Sealant a) Primer b) Cementitious material	None Detected None Detected
50	164A-120126-1C	Room TB13 Concrete wall	Masonry Sealant	Chrysotile 0.5%

### Window Caulking/Glazing Putty

Window caulking/glazing putty (non-friable) on all exterior windows of this building shall be considered to contain asbestos (Chrysotile).

No removal or disturbance of asbestos-containing window caulking and glazing putty shall proceed without following the appropriate asbestos procedures as listed below:

- Any window restoration work shall proceed with caution, considering the presence of asbestos in glazing putty and caulking material in addition to lead-based paint. Type 1 asbestos procedures shall be followed for the removal of window caulking and glazing putty if using non-powered tools. If work is done by means of power tools, asbestos Type 2 asbestos procedures are to be followed. Dispose the removed materials as asbestos waste.

A summary of analytical results of bulk samples of window caulking collected to date from this building is presented below. Copies of laboratory analytical results are attached at Appendix A.

481 Spadina Avenue (Building #164A) Summary of Analysis of Window Caulking Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	164A-130525-6A	Room T792	Window caulking a) Black b) Dark grey	Chrysotile 50% None Detected
2	164A-130525-6B	Room T792	Window caulking	Not Analyzed
3	164A-130525-6C	Room T792	Window caulking	Not Analyzed
4	164A-200525-5A	Room T203	Window caulking	Chrysotile 50%
5	164A-200525-5B	Room T203	Window caulking	Not Analyzed
6	164A-200525-5C	Room T204	Window caulking	Not Analyzed

### Fire-rated Doors/Hatches

Fire-rated doors/hatches are present within the current project locations. Due to the destructive nature of sampling, the fire-rated door/hatch infill material was not examined. All fire-rated doors/hatches in this facility shall be considered to contain friable asbestos infill material.



No removal or disturbance of this material shall proceed without following the appropriate asbestos procedures listed below:





- Follow Type 1 asbestos abatement procedures for intact removal of doors. Dispose the entire door as asbestos waste.

### **Noticeboard/blackboard Glue**

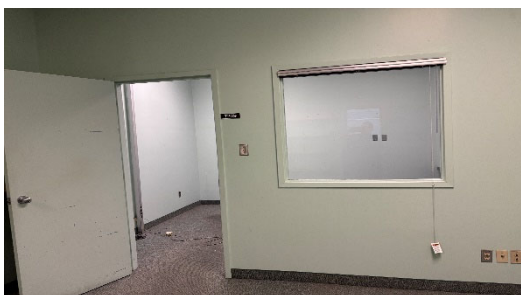
Areas behind the noticeboards/blackboards remained inaccessible during the current investigations. All glue and other adhesive materials (non-friable), where discovered behind the noticeboard/blackboard, shall be considered to contain asbestos.

No removal or disturbance of these materials shall proceed without following the appropriate asbestos procedures as listed below.

- Type 1 or Type 2 (full enclosure) asbestos procedures shall be followed for the removal of asbestos-containing adhesive glue based on the quantity of material to be removed.

### **Interior Window Frame Caulking**

Caulking at frame of interior window between Room T207 and T208 (image shown below) does not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material.



A summary of analytical results of bulk samples of interior window frame caulking between Room T207 and T208 is presented below. Copies of laboratory analytical results are attached at Appendix A.

481 Spadina Avenue (Building #164A) Summary of Analysis of Interior Window Frame Caulking Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	164A-091225-4A	Room T208/T209	Window frame caulking	None Detected
2	164A-091225-4B	Room T208/T209	Window frame caulking	None Detected
3	164A-091225-4C	Room T208/T209	Window frame caulking	None Detected

### **Doorframe Caulking**

Caulking at door frames within the current project locations does not contain asbestos based on laboratory analytical results of bulk asbestos samples of this homogeneous material.

A summary of analytical results of bulk samples of door frame caulking collected to date from this building is presented below. Copies of laboratory analytical results are attached at Appendix A.

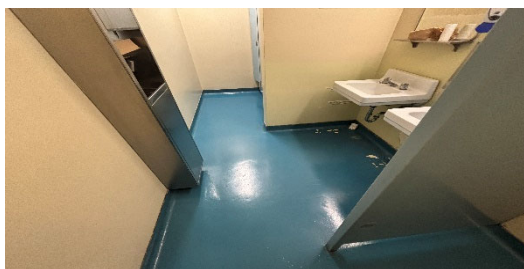
481 Spadina Avenue (Building #164A) Summary of Analysis of Door Frame Caulking Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	164A-091225-3A	Room T207/T208	Doorframe caulking	None Detected



481 Spadina Avenue (Building #164A) Summary of Analysis of Door Frame Caulking Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
2	164A-091225-3B	Room T208/T209	Doorframe caulking	None Detected
3	164A-091225-3C	Room T208/T209	Doorframe caulking	None Detected
4	164A-091225-6C	Room T305	Doorframe caulking	None Detected
5	164A-091225-6C	Room T305	Doorframe caulking	None Detected
6	164A-091225-6C	Room T305	Doorframe caulking	None Detected

### **Epoxy Flooring**

Based on laboratory analytical results of samples of this homogeneous material obtained during the current investigation, all epoxy flooring (image shown below) present within the current project locations can be considered not to contain asbestos.



A summary of analytical results of bulk samples of epoxy flooring collected to date from this building is presented below. Copies of laboratory analytical results are attached at Appendix A.

481 Spadina Avenue (Building #164A) Summary of Analysis of Epoxy Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	164A-051225-1A	Room T219 (Washroom)	Epoxy Flooring	None Detected
2	164A-051225-1B	Room T326 (Washroom)	Epoxy Flooring	None Detected
3	164A-051225-1C	Room T402 (Washroom)	Epoxy Flooring	None Detected

### **Baseboard Adhesive**

Based on laboratory analytical results of samples of this homogeneous material obtained during the current investigation, all baseboard adhesives present within the current project locations, and various other areas of the building can be considered not to contain asbestos.

A summary of analytical results of bulk samples of baseboard adhesive collected to date from this building is presented below. Copies of laboratory analytical results are attached at Appendix A.

481 Spadina Avenue (Building #164A) Summary of Analysis of Baseboard Adhesive Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	164A-091225-2A	Room T207	Baseboard Adhesive, brown	None Detected
2	164A-091225-2B	Room T212	Baseboard Adhesive a) Brown mastic b) Yellow mastic	None Detected None Detected
3	164A-091225-2C	Room T215	Baseboard Adhesive a) Brown mastic b) Yellow mastic	None Detected None Detected
4	164A-091225-5A	Room T304	Baseboard Adhesive a) Yellow mastic b) Brown mastic c) White plaster d) Grey plaster	None Detected None Detected None Detected None Detected
5	164A-091225-5B	Room T310	Baseboard Adhesive a) Brown mastic b) White plaster c) Grey plaster	None Detected None Detected None Detected
6	164A-091225-5C	Room T316	Baseboard Adhesive a) Brown mastic b) White plaster c) Grey plaster	None Detected None Detected None Detected
7	164A-091225-7A	Room T404	Baseboard Adhesive, brown	None Detected
8	164A-091225-7B	Room T412	Baseboard Adhesive, brown	None Detected
9	164A-091225-7C	Room T415	Baseboard Adhesive a) Brown mastic b) Off-white, joint compound	None Detected None Detected
10	164A-091225-8A	Room T705	Baseboard Adhesive, yellow	None Detected
11	164A-091225-8B	Room T707	Baseboard Adhesive a) Yellow mastic b) Off-white, joint compound	None Detected None Detected
12	164A-091225-8C	Room T709	Baseboard Adhesive, yellow	None Detected

### **Sink/Countertop Caulking**

Based on laboratory analytical results of samples of sink and countertop caulking (image shown below) obtained during the current investigation, all sink/countertop caulking within the current project locations can be considered not to contain asbestos.



A summary of analytical results of bulk samples of sink/countertop caulking collected to date from this building is presented below. Copies of laboratory analytical results are attached at Appendix A.



481 Spadina Avenue (Building #164A) Summary of Analysis of Sink/Countertop Caulking Bulk Samples				
Sr. No.	Sample Number	Location	Material Description	Asbestos Content
1	164A-091225-1A	Room T212	Sink Caulking	None Detected
2	164A-091225-1B	Room T212	Sink Caulking	None Detected
3	164A-091225-1C	Room T212	Sink Caulking	None Detected
4	164A-091225-9A	Room T796	Countertop Caulking	None Detected
5	164A-091225-9B	Room T796	Countertop Caulking	None Detected
6	164A-091225-9C	Room T796A	Countertop Caulking	None Detected

### **Manufactured Asbestos Cement Products**

No manufactured asbestos-containing cement product is present within the current project locations.

Manufactured asbestos cement product transite is present as countertops and cabinet liners in select lab areas of this building.

No removal or disturbance of asbestos transite countertops shall proceed without following the appropriate asbestos procedures as listed below.

- Type 1 procedures are required for the intact removal of asbestos cement products (Transite). If the material is broken, cut, drilled, ground, sanded, etc., the more stringent Type 2 or Type 3 asbestos procedures must be followed.
- No disturbance, cutting, drilling, grinding, sanding, etc. of asbestos cement products is allowed without following appropriate asbestos procedures.

### **Sprayed fireproofing**

No sprayed fireproofing is present in this building.

### **Roofing Materials**

Based on laboratory analytical results of samples of this homogeneous material obtained from the building, no asbestos-containing roofing materials are present in this building.

### **Other**

No other building materials suspected to contain asbestos were observed at accessible areas of the current project locations.

Asbestos-containing materials for which either the sampling records are not available or that are currently hidden or are inaccessible may be present within the building. These materials include

• Firestop materials	• Gaskets and other internal liners within mechanical equipment	• Electrical wiring jacket	• Electrical panel backing
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Investigation, including sampling and analysis, is recommended in the event of discovery of such materials for the determination of the presence/absence of asbestos. Appropriate asbestos removal procedures shall be implemented if the material is identified as asbestos-containing.



## **Lead**

All paint finishes on walls, structural components, windows, doors, bulkheads, baseboards, floors, ceilings, piping systems, ductwork and other mechanical and all other surfaces within the current project locations and other areas of the building should be assumed to contain lead (any lead concentration).

There is no regulatory limit currently in Ontario that determines what amount of lead in paint constitutes the paint to be considered “lead based paint”. The Environmental Abatement Council of Canada (EACC) – Lead Guideline For Construction, Renovation, Maintenance or Repair (2014) recommends that a content of 0.1% (i.e. 1000 µg/g or 1000 mg/kg or 1000 ppm lead) is considered a “de minimis” or “virtually safe” level of lead in paint or surface coatings, provided that aggressive disturbance or heating does not occur.

The above lead-based paint standards are the generally accepted threshold for defining a “lead-based paint”. These levels are used as action levels where special precautions are typically implemented to contain debris created during construction or renovation activities and to protect workers from exposure during these activities.

The classification, general measures and procedures (or Type of operations) required for removal or disturbance of lead paint, lead painted materials and lead based materials shall depend on the type of work to be conducted, the procedures adopted and the limit of lead in paint accepted by the General Contractor and their sub-contractors. For removal or disturbance of lead paint, lead painted materials and lead based materials, the General Contractor and their sub-contractors work procedures and training requirements, as identified in Ontario Ministry of Labour Guidelines for Lead on Construction Projects, available at <https://www.labour.gov.on.ca/english/hs/pubs/lead/> and the University of Toronto Standard Operating Procedures for the Control of Lead During Building Maintenance and Construction Activities, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>. In case of conflict the more stringent procedures shall apply.

Lead-containing wastes should be recycled if practicable or handled and disposed of according to Ontario Regulation 347.

Lead shall also be prudently presumed to be present in the following materials:

- As a component of the solder on joints between copper pipe and fittings.
- As a component of the solder on the wire connections of electric components.
- As a component of wool present as caulking in bell fittings at cast iron drains.
- As a component of glazing on spectra glaze blocks and ceramic tiles.
- As a component of lead-acid batteries in emergency lights.
- As lead sheeting.
- As pigmented mortar.
- As lead piping.

## **Mercury**

Elemental mercury may be present in the electro-thermal switching devices and may be present in trace amounts as vapours in metal halide bulbs, fluorescent light tubes and incandescent mercury bulbs within the current project locations and other areas throughout the building. It is recommended that at the time of their disposal, all mercury vapour bulbs may be recycled and possibly reused by qualified personnel or may be disposed of according to applicable regulations.

## **Silica**

Silica-containing materials are present within the current project locations and in other areas throughout the building. Crystalline silica is the primary component of many building materials such as concrete,



concrete block, cement, mortar, drywall, etc. Silica has also been found as a filler material in insulation. Exposure to airborne crystalline silica can occur when these building materials are disturbed or turned into powder (particularly grinding, drilling or cutting operations and during major demolition).

Work of disturbance/removal/drilling into silica-containing materials is included in the General Contractor's scope of work. For any work involving disturbance or removal of silica-containing materials, the General Contractor and their subcontractors shall follow work procedures and training requirements in The Ontario Ministry of Labour Guideline "Silica on Construction Projects" available at <https://www.labour.gov.on.ca/english/hs/pubs/silica/> and The University of Toronto "Crystalline Silica Procedures" available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>. In case of conflict, the more stringent procedures shall apply.

The classification, general measures and procedures (or Type of operations) required shall depend on the type of work to be conducted and the procedures adopted by the contractor. The following section outlines the classification of silica-containing materials disturbance based on the guidelines and procedures referred above.

### **Type 1 Operations**

- Drilling of holes in concrete or rock that is not part of a tunneling operation or road construction.
- Any other operation at a project that requires the handling of silica-containing material in a way that may result in a worker being exposed to airborne silica.
- 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.

### **Type 2 Operations**

- Removal of silica containing refractory materials with a jackhammer.
- The drilling of holes in concrete or rock that is part of a tunneling or road construction.
- The use of a power tool to cut, grind, or polish concrete, masonry, terrazzo or refractory materials.
- The use of a power tool to remove silica containing materials.
- Tuckpoint and surface grinding.
- Dry mortar removal with an electric or pneumatic cutting device.
- Dry method dust cleanup from abrasive blasting operations.
- Entry into an area where abrasive blasting is being carried out for more than 15 minutes.

### **Type 3 Operations**

- Abrasive blasting with an abrasive that contains  $\geq 1$  per cent silica.
- Abrasive blasting of a material that contains  $\geq 1$  per cent silica.

### **OTHER DESIGNATED SUBSTANCES - Acrylonitrile, Arsenic, Benzene, Coke Oven Emissions, Ethylene Oxide, Isocyanates and Vinyl Chloride**

The building is not and was not used for any process or manufacturing, therefore none of the other Designated Substances listed above are suspected to be present.

### **Other Hazardous Materials - PCBs**

Light fixtures currently operational were not opened for inspection for the confirmation of the presence/absence of PCBs. In many cases, light fixtures in facilities built prior to 1979 and having T-12 ballasts are assumed to be PCB-containing until proven otherwise.



PCB-containing ballasts are identified by model number, serial number, and date code, as listed in *Environment of Canada Identification of Lamp Ballasts Containing PCB's – Report EPS 2/CC/2 (revised) August 1991*.

Follow all Regulations about PCB's [Federal PCB Regulations, SOR/2008-273, and Ontario Regulation (Environmental Protection Act) R.R.O. 1990, Regulation 362 Waste Management – PCB's - last amendment O. Reg. 232/11] for handling and disposal.

### **Other Hazardous Materials – Mould**

No active water intrusion was observed within the current project locations.

Minor scale historic mould contamination was observed under the wall covering of door# T203/T204 wall.

Minor scale efflorescence was observed in washrooms within the current project locations.

Stained ceiling tiles are present in washrooms 796 and 796A.

Mould remediation procedures per the [UofT Mould Control Program](#) and [UofT Procedures for Mould Remediation](#) shall be followed to remediate the mould-contaminated materials

### **TRAINING**

Any worker who may inadvertently come into contact with any asbestos-containing materials in the course of their work for the current project must have at a minimum Asbestos Awareness Training as outlined in the University of Toronto, Asbestos Management Program, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>.

Workers performing any asbestos work will require appropriate training, including respirator fit testing, as identified in Ontario Regulation 278/05 and the University of Toronto Asbestos Management Program, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>. In case of conflict, the more stringent procedures shall apply.

Workers performing removal or disturbance of surfaces applied with lead based paint and lead-containing materials shall have appropriate training, including respirator fit testing, as identified in Ontario Ministry of Labour, Immigration, Training and Skills Development Guidelines for Lead on Construction Projects, available at <https://www.labour.gov.on.ca/english/hs/pubs/lead/> and the University of Toronto Lead Management Program/Standard Operating Procedures for the Control of Lead During Building Maintenance and Construction Activities, available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>. In case of conflict, the more stringent procedures shall apply.

Workers performing removal or disturbance of silica-containing materials shall have appropriate training, including respirator fit testing, as identified in Ontario Ministry of Labour Guideline “Silica on Construction Projects” available at <https://www.labour.gov.on.ca/english/hs/pubs/silica/> and The University of Toronto “Crystalline Silica Procedures” available at <https://ehs.utoronto.ca/resources/policies-and-procedures/>. In case of conflict, the more stringent procedures shall apply.

Workers performing removal or disturbance of other hazardous materials shall require appropriate training as specified in the relevant regulations/guidelines.

**Work will only be allowed once the training certificates of workers working inside asbestos enclosures are verified by the consultants and/or the University of Toronto designated staff.**



## **CONCLUSION**

The conclusions provided below are based on available reports, bulk sampling records, and the current investigation for accessible designated substances in building materials for the Faculty of Information Relocation Project [P164-25-078] locations and other areas of the facility located at 481 Spadina Avenue (Building #164A).

- Designated Substances [Asbestos, Lead (any concentration), Mercury and Silica] are present within the current project locations and other areas of the building.

**NOTE:** If additional materials not covered in this report are discovered during the project activities and suspected of containing designated substances, all work that may disturb the material shall be stopped and an investigation (i.e., sampling and analysis) undertaken to determine the presence of any designated substances.

## **CLOSURE**

The conclusions presented in this report represent the best technical judgment based on the data obtained from the review of available reports, abatement records, bulk sampling records and current investigations of the current project locations during this survey. The conclusions are based on the site conditions at the time the survey was performed at the specific testing and/or sampling locations, and can only be extrapolated to an undefined limited area around these locations.

Information provided in this report is intended for the subject project in compliance with the requirements under Section 30 of the Ontario Occupational Health and Safety Act (OHSA), Revised Statutes of Ontario 1990, as amended. Any use by a third party of this report or any reliance by a third party on or decisions made by a third party based on the findings described in this report is the sole responsibility of such third parties. The University of Toronto F&S Hazardous Construction Materials Group accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted

If any conditions become apparent that differ significantly from our understanding of conditions as presented in this report, we request that we be notified immediately to reassess the conclusions provided herein.

Sincerely,

Prepared By:

Faiq Amir, C. Tech (Environmental)  
Inspector  
Hazardous Construction Materials Group  
University of Toronto  
F&S Property Management  
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[irfan.miraj@utoronto.ca](mailto:irfan.miraj@utoronto.ca)





## **APPENDIX A**

### **Laboratory Analytical Results**

# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A120028r  
**Project Name:** CAMH (164A)  
**Analysis Method:** Polarized Light Microscopy – EPA 600  
**Date Received:** May 16/25 **Date Analyzed:** May 16/25  
**Analyst:** John Paul Cantillon  
**Reviewed By:** Malgorzata Sybydlo

**Project No:** 1793331  
**Number of Samples:** 33  
**Date Reported:** May 23/25

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-130525-1A	A120028-1	Mechanical room T797/ drywall joint compound	White, joint compound	ND			100
164A-130525-1B	A120028-2	Room T795/ drywall joint compound	White, joint compound	ND			100
164A-130525-1C	A120028-3	Room T709/ drywall joint compound	White, joint compound	ND			100
164A-130525-1D	A120028-4	Room T707/ drywall joint compound	White, joint compound	ND			100
164A-130525-1E	A120028-5	Room T704/ drywall joint compound	White, joint compound	ND			100
164A-130525-1F	A120028-6	Room T701/ drywall joint compound	White, joint compound	ND			100
164A-130525-2A	A120028-7	Staircase T790S / wall plaster	2 Phases: a) White, textured plaster b) Grey, plaster	Chrysotile ND	1		99 100
164A-130525-2B	A120028-8 <sup>6</sup>	Room T790/ wall plaster	Grey, plaster	ND			100
164A-130525-2C	A120028-9	Room T790/ wall plaster	Light grey, textured plaster	ND			100
164A-130525-3A	A120028-10	Room T791/ 12"x12" off-white with diamond pebbles with mastic	2 Phases: a) Off white, vinyl floor tile b) Black, mastic	ND ND			100 100
164A-130525-3B	A120028-11	Room T791/ 12"x12" off-white with diamond pebbles with mastic	2 Phases: a) Off white, vinyl floor tile	ND			100

**EMC LAB REPORT NUMBER:** A120028

**Client's Job/Project No.:** 1793331

**Analyst:** John Paul Cantillon

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
			b) Black, mastic	ND			100
164A-130525-3C	A120028-12	Room T791/ 12"x12" off-white with diamond pebbles with mastic	2 Phases: a) Off white, vinyl floor tile b) Black, mastic	ND ND			100 100
164A-130525-4A	A120028-13	Room T791/ 2'x2' multiple pinholes	Grey, ceiling tile	ND			100
164A-130525-4B	A120028-14	Room T791/ 2'x2' multiple pinholes	Grey, ceiling tile	ND			100
164A-130525-4C	A120028-15	Room T791/ 2'x2' multiple pinholes	Grey, ceiling tile	ND			100
164A-130525-5A	A120028-16	Room T792/ 12"x12" beige with white/ brown pebbles with mastic	2 Phases: a) Off white, vinyl floor tile b) Yellow, mastic	ND ND			100 100
164A-130525-5B	A120028-17	Room T796/ 12"x12" beige with white/ brown pebbles with mastic	2 Phases: a) Off white, vinyl floor tile b) Yellow and black, mastic	ND ND			100 100
164A-130525-5C	A120028-18	Room T796A/ 12"x12" beige with white/ brown pebbles with mastic	2 Phases: a) Off white, vinyl floor tile b) Yellow and black, mastic	ND ND			100 100
164A-130525-6A	A120028-19	Room T792/ window caulking	2 Phases: a) Black, caulking b) Dark grey, caulking	Chrysotile ND	1		99 100
164A-130525-6B	A120028-20	Room T792/ window caulking	NA	NA			
164A-130525-6C	A120028-21	Room T792/ window caulking	NA	NA			

**EMC LAB REPORT NUMBER:** A120028

**Client's Job/Project No.:** 1793331

**Analyst:** John Paul Cantillon

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-130525-7A	A120028-22	Room T796/ 2'x2' pinhole fissured	Grey, ceiling tile	ND		75	25
164A-130525-7B	A120028-23	Room T796/ 2'x2' pinhole fissured	Grey, ceiling tile	ND		75	25
164A-130525-7C	A120028-24	Room T796A/ 2'x2' pinhole fissured	Grey, ceiling tile	ND		75	25
164A-130525-8A	A120028-25	Room T793/ 2'x4' pinhole fissured	Grey, ceiling tile	ND		75	25
164A-130525-8B	A120028-26	Room T794/ 2'x4' pinhole fissured	Grey, ceiling tile	ND		75	25
164A-130525-8C	A120028-27	Room T795/ 2'x4' pinhole fissured	Grey, ceiling tile	ND		75	25
164A-130525-9A	A120028-28	RoomT703/ 2'x4' pinholes	Grey, ceiling tile	ND		75	25
164A-130525-9B	A120028-29	RoomT706/ 2'x4' pinholes	Grey, ceiling tile	ND		75	25
164A-130525-9C	A120028-30	RoomT707/ 2'x4' pinholes	Grey, ceiling tile	ND		75	25
164A-130525-10A	A120028-31	Room T793/ floor mastic	Brown and black, mastic	ND			100
164A-130525-10B	A120028-32	Room T707/ floor mastic	Brown, mastic	ND			100
164A-130525-10C	A120028-33	Room T701/ floor mastic	Brown and black, mastic	ND			100

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).



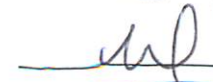

**EMC LAB REPORT NUMBER:** A120028

**Client's Job/Project No.:** 1793331

**Analyst:** John Paul Cantillon

3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
  4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
  5. Vinyl floor tiles may contain very fine asbestos fibres which the PLM method cannot detect. TEM analysis may be necessary to confirm the absence of asbestos.
  6. This sample is small in size. More material is needed for more reliable results.
- \* This report has been revised as requested on May 23/25.

A126028

 <b>UNIVERSITY OF TORONTO</b>			<b>REQUEST FOR ANALYSIS</b>		
<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		<b>Shipped</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		PLM Bulk <input checked="" type="checkbox"/> xx TEM Bulk <input type="checkbox"/> Bulk Mould <input type="checkbox"/> PCM Air <input type="checkbox"/> Other <input type="checkbox"/>	
<b>Samples Collected By:</b> Faiq Amir		<b>Project, S.O. #:</b> 1793331 <b>Building Name:</b> CAMH (164A)		Other <input type="checkbox"/>	
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-130525-1A	13-May-25	Mechanical Room T797	Drywall Joint Compound	X	1
164A-130525-1B	13-May-25	Room T795	Drywall Joint Compound	X	2
164A-130525-1C	13-May-25	Room T709	Drywall Joint Compound	X	3
164A-130525-1D	13-May-25	Room T707	Drywall Joint Compound	X	4
164A-130525-1E	13-May-25	Room T704	Drywall Joint Compound	X	5
164A-130525-1F	13-May-25	Room T701	Drywall Joint Compound	X	6
164A-130525-2A	13-May-25	Room T790 Staircase 790S	Wall Plaster	X	7
164A-130525-2B	13-May-25	Room T790	Wall Plaster	X	8
164A-130525-2C	13-May-25	Room T790	Wall Plaster	X	9
164A-130525-3A	13-May-25	Room T791	12"x12"Off-white with diamond pebbles with mastic	X	10
164A-130525-3B	13-May-25	Room T791	12"x12"Off-white with diamond pebbles with mastic	X	11
164A-130525-3C	13-May-25	Room T791	12"x12"Off-white with diamond pebbles with mastic	X	12
164A-130525-4A	13-May-25	Room T791	2'x2' Multiple Pinholes	X	13
164A-130525-4B	13-May-25	Room T791	2'x2' Multiple Pinholes	X	14
164A-130525-4C	13-May-25	Room T791	2'x2' Multiple Pinholes	X	15
<b>Relinquished By:</b> <u>Faiq Amir</u> Print Name <span style="float: right;"></span> Signature <span style="float: right;">Date: 15-May-25</span>				<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca With CC to: ehs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca	
<b>Received By:</b> <u>Nicole Irwin</u> Print Name <span style="float: right;"></span> Signature <span style="float: right;">Date: May 15, 2025</span>					
<b>Analyzed By:</b> <u>John Paul Conlton</u> Print Name <span style="float: right;"></span> Signature <span style="float: right;">Date: May 16/25 9am</span>					





UNIVERSITY OF  
TORONTO

# REQUEST FOR ANALYSIS

Ship To: EMC Scientific Inc.

Sample Reception

5800 Ambler Drive, Suite 100, Mississauga, ON

L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607

Shipped

Environmental Health & Safety, 7th Floor

215 Huron Street Toronto, Ontario M5S 1A1

PLM Bulk xx

TEM Bulk

Bulk Mould

PCM Air

Other

Samples Collected

By:

Faiq Amir

Project, S.O. #:

1793331

Building Name:

CAMH (164A)

Analysis Turnaround Time

Regular

24 Hours

Sample Number	Date Sampled	Sample Location	Sample Description	Regular	24 Hours
164A-130525-5A	13-May-25	Room T792	12"x12" Beige with white/brown pebbles with mastic	X	16
164A-130525-5B	13-May-25	Room T796	12"x12" Beige with white/brown pebbles with mastic	X	17
164A-130525-5C	13-May-25	Room T796A	12"x12" Beige with white/brown pebbles with mastic	X	18
164A-130525-6A	13-May-25	Room T792	Window Caulking	X	19
164A-130525-6B	13-May-25	Room T792	Window Caulking	X	20
164A-130525-6C	13-May-25	Room T792	Window Caulking	X	21
164A-130525-7A	13-May-25	Room T796	2'x2' Pinhole Fissured	X	22
164A-130525-7B	13-May-25	Room T796	2'x2' Pinhole Fissured	X	23
164A-130525-7C	13-May-25	Room T796A	2'x2' Pinhole Fissured	X	24
164A-130525-8A	13-May-25	Room T793	2'x4' Pinhole Fissured	X	25
164A-130525-8B	13-May-25	Room T794	2'x4' Pinhole Fissured	X	26
164A-130525-8C	13-May-25	Room T795	2'x4' Pinhole Fissured	X	27
164A-130525-9A	13-May-25	Room T703	2'x4' Pinholes	X	28
164A-130525-9B	13-May-25	Room T706	2'x4' Pinholes	X	29
164A-130525-9C	13-May-25	Room T707	2'x4' Pinholes	X	30
164A-130525-10A	13-May-25	Room T793	Floor Mastic	X	31
164A-130525-10B	13-May-25	Room T707	Floor Mastic	X	32
164A-130525-10C	13-May-25	Room T701	Floor Mastic	X	33

Relinquished By:

Faiq Amir

Print Name

Signature

15-May-25

Date

Received By:

Print Name

Signature

Date

Analyzed By:

Print Name

Signature

Date

Comments: Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca  
With CC to:  
chs.office@utoronto.ca  
irfan.miraj@utoronto.ca  
doug.colby@utoronto.ca  
faiq.amir@utoronto.ca

# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A120278

**Project Name:** CAMH (164A)

**Analysis Method:** Polarized Light Microscopy – EPA 600

**Date Received:** May 23/25      **Date Analyzed:** May 30/25

**Analyst:** Jayoda Perera

**Reviewed By:** Malgorzata Sybydlo

**Project No:** 1793331

**Number of Samples:** 33

**Date Reported:** May 30/25

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-140525-1A	A120278-1	Room T601/Drywall Joint Compound	White, joint compound	ND			100
164A-140525-1B	A120278-2	Room T607/Drywall Joint Compound	White, joint compound	ND			100
164A-140525-1C	A120278-3	Room T612A/Drywall Joint Compound	White, joint compound	ND			100
164A-140525-1D	A120278-4	Room T613B/Drywall Joint Compound	Off white, joint compound	ND			100
164A-140525-1E	A120278-5	Room T617/Drywall Joint Compound	2 Phases: a) Off white, joint compound b) White, joint compound	ND ND			100 100
164A-140525-1F	A120278-6	Room T611/Drywall Joint Compound	White, joint compound	ND			100
164A-140525-2A	A120278-7	Room T601/1'x1' Ceiling Tile	Grey, ceiling tile	ND		75	25
164A-140525-2B	A120278-8	Room T615/1'x1' Ceiling Tile	Grey, ceiling tile	ND		75	25
164A-140525-2C	A120278-9	Room T692/1'x1' Ceiling Tile	Grey, ceiling tile	ND		75	25
164A-140525-3A	A120278-10	Room T604/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
164A-140525-3B	A120278-11	Room T608/Wall Plaster	2 Phases: a) White, plaster	ND			100



**EMC LAB REPORT NUMBER:** A120278

**Client's Job/Project No.:** 1793331

**Analyst:** Jayoda Perera

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
			b) Grey, plaster	ND		100
164A-140525-3C	A120278-12	Room T610/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND		100 100
164A-140525-3D	A120278-13	Room T612A/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND		100 100
164A-140525-3E	A120278-14	Room T613/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND		100 100
164A-140525-3F	A120278-15	Room T617/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND		100 100
164A-140525-4A	A120278-16	Room T610/12"x12" Cream with black/grey pebbles with mastic	2 Phases: a) Off white, vinyl floor tile b) Colourless, mastic	ND ND		100 100
164A-140525-4B	A120278-17	Room T609/12"x12" Cream with black/grey pebbles with mastic	Off white, vinyl floor tile	ND		100
164A-140525-4C	A120278-18	Room T621/12"x12" Cream with black/grey pebbles with mastic	2 Phases: a) Off white, vinyl floor tile b) Black, mastic	ND ND		100 100
164A-140525-5A	A120278-19	Room T611/12"x12" Grey painted with mastic	2 Phases: a) White, vinyl floor tile b) Yellow, mastic	ND ND		100 100
164A-140525-5B	A120278-20	Room T618/12"x12" Grey painted with mastic	2 Phases: a) White, vinyl floor tile	ND		100

**EMC LAB REPORT NUMBER:** A120278

**Client's Job/Project No.:** 1793331

**Analyst:** Jayoda Perera

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
			b) Yellow, mastic	ND			100
164A-140525-5C	A120278-21	Room T619/12"x12" Grey painted with mastic	2 Phases: a) White, vinyl floor tile b) Black and yellow, mastic	ND ND			100 100
164A-140525-6A	A120278-22	Room T613/2'x4' Pinhole/ Deep Fissured	Grey, ceiling tile	ND		75	25
164A-140525-6B	A120278-23	Room T613A/2'x4' Pinhole/ Deep Fissured	Grey, ceiling tile	ND		75	25
164A-140525-6C	A120278-24	Room T613B/2'x4' Pinhole/ Deep Fissured	Grey, ceiling tile	ND		75	25
164A-140525-7A	A120278-25	Room T613/2'x4' Multi Pinhole	Grey, ceiling tile	ND		75	25
164A-140525-7B	A120278-26	Room T613B/2'x4' Multi Pinhole	Grey, ceiling tile	ND		75	25
164A-140525-7C	A120278-27	Room T613B/2'x4' Multi Pinhole	Grey, ceiling tile	ND		75	25
164A-140525-8A	A120278-28	Room T690 / 12"x12" Off-White with grey streaks with mastic	2 Phases: a) Off white, vinyl floor tile b) Black, mastic	Chrysotile ND	1		99 100
164A-140525-8B	A120278-29	Room T690 / 12"x12" Off-White with grey streaks with mastic	2 Phases: a) NA b) Black, mastic	NA ND			100
164A-140525-8C	A120278-30	Room T692 / 12"x12" Off-White with grey streaks with mastic	2 Phases: a) NA b) Black, mastic	NA ND			100

**EMC LAB REPORT NUMBER:** A120278

**Client's Job/Project No.:** 1793331

**Analyst:** Jayoda Perera

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-140525-9A	A120278-31	Room T601 / 1'x1' Ceiling Tile Glue	Brown, mastic	ND			100
164A-140525-9B	A120278-32	Room T615 / 1'x1' Ceiling Tile Glue	Brown, mastic	ND			100
164A-140525-9C	A120278-33	Room T692 / 1'x1' Ceiling Tile Glue	Brown, mastic	ND			100

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. Vinyl floor tiles may contain very fine asbestos fibres which the PLM method cannot detect. TEM analysis may be necessary to confirm the absence of asbestos.

A120278

UNIVERSITY OF TORONTO			REQUEST FOR ANALYSIS		
Ship To: EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		Shipped Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		PLM Bulk xx	
				TEM Bulk	
				Bulk Mould	
				PCM Air	
				Other	
Samples Collected By:	Faiq Amir	Project, S.O. #:	1793331		
		Building Name:	CAMH (164A)		
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-140525-1A	14-May-25	Room T601	Drywall Joint Compound	X	
164A-140525-1B	14-May-25	Room T607	Drywall Joint Compound	X	
164A-140525-1C	14-May-25	Room T612A	Drywall Joint Compound	X	
164A-140525-1D	14-May-25	Room T613B	Drywall Joint Compound	X	
164A-140525-1E	14-May-25	Room T617	Drywall Joint Compound	X	
164A-140525-1F	14-May-25	Room T611	Drywall Joint Compound	X	
164A-140525-2A	14-May-25	Room T601	1'x1' Ceiling Tile	X	
164A-140525-2B	14-May-25	Room T615	1'x1' Ceiling Tile	X	
164A-140525-2C	14-May-25	Room T692	1'x1' Ceiling Tile	X	
164A-140525-3A	14-May-25	Room T604	Wall Plaster	X	
164A-140525-3B	14-May-25	Room T608	Wall Plaster	X	
164A-140525-3C	14-May-25	Room T610	Wall Plaster	X	
164A-140525-3D	14-May-25	Room T612A	Wall Plaster	X	
164A-140525-3E	14-May-25	Room T613	Wall Plaster	X	
164A-140525-3F	14-May-25	Room T617	Wall Plaster	X	
Relinquished By: Faiq Amir			20-May-25		<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shen@utoronto.ca With CC to: ehs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca
Received By: Amy Bradford			22-May-25		
Analyzed By: Jayoda Perera			May 30 / 25		

AS. MAY 23/25 puro 845



UNIVERSITY OF TORONTO			REQUEST FOR ANALYSIS		
Ship To: EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607			Shipped Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		PLM Bulk xx
			Project, S.O. #: 1793331		TEM Bulk
Samples Collected By: Faiq Amir			Building Name: CAMH (164A)		Bulk Mould
					PCM Air
					Other
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-140525-4A	14-May-25	Room T610	12"x12" Cream with black/grey pebbles with mastic	X	
164A-140525-4B	14-May-25	Room T609	12"x12" Cream with black/grey pebbles with mastic	X	
164A-140525-4C	14-May-25	Room T621	12"x12" Cream with black/grey pebbles with mastic	X	
164A-140525-5A	14-May-25	Room T611	12"x12" Grey painted with mastic	X	
164A-140525-5B	14-May-25	Room T618	12"x12" Grey painted with mastic	X	
164A-140525-5C	14-May-25	Room T619	12"x12" Grey painted with mastic	X	
164A-140525-6A	14-May-25	Room T613	2'x4' Pinhole/ Deep Fissured	X	
164A-140525-6B	14-May-25	Room T613A	2'x4' Pinhole/ Deep Fissured	X	
164A-140525-6C	14-May-25	Room T613B	2'x4' Pinhole/ Deep Fissured	X	
164A-140525-7A	14-May-25	Room T613	2'x4' Multi Pinhole	X	
164A-140525-7B	14-May-25	Room T613B	2'x4' Multi Pinhole	X	
164A-140525-7C	14-May-25	Room T613B	2'x4' Multi Pinhole	X	
164A-140525-8A	14-May-25	Room T690	12"x12" Off-White with grey streaks with mastic	X	
164A-140525-8B	14-May-25	Room T690	12"x12" Off-White with grey streaks with mastic	X	
164A-140525-8C	14-May-25	Room T692	12"x12" Off-White with grey streaks with mastic	X	
164A-140525-9A	14-May-25	Room T601	1'x1' Ceiling Tile Glue	X	
164A-140525-9B	14-May-25	Room T615	1'x1' Ceiling Tile Glue	X	
164A-140525-9C	14-May-25	Room T692	1'x1' Ceiling Tile Glue	X	
Relinquished By: Faiq Amir			Signature: [Signature] Date: 20-May-25		Comments: Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca With CC to: ehs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca
Received By: Amy Bradford			Signature: [Signature] Date: 22-May-25		
Analyzed By: Jagoda Perera			Signature: [Signature] Date: May 30 / 25		

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# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A120279

**Project Name:** CAMH (164A)

**Analysis Method:** Polarized Light Microscopy – EPA 600

**Date Received:** May 23/25      **Date Analyzed:** May 30/25

**Analyst:** Arth Parikh

**Reviewed By:** Malgorzata Sybydlo

**Project No:** 1793331

**Number of Samples:** 30

**Date Reported:** May 30/25

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-150525-1A	A120279-1 <sup>5</sup>	Room T501/Drywall Joint Compound	White, plaster	ND			100
164A-150525-1B	A120279-2	Room T511/Drywall Joint Compound	White, plaster	ND			100
164A-150525-1C	A120279-3 <sup>5</sup>	Room T514/Drywall Joint Compound	White, plaster	ND			100
164A-150525-1D	A120279-4	Room T527/Drywall Joint Compound	White, plaster	ND			100
164A-150525-1E	A120279-5	Room T532/Drywall Joint Compound	White, joint compound	ND			100
164A-150525-1F	A120279-6	Room T592/Drywall Joint Compound	White, joint compound	ND			100
164A-150525-2A	A120279-7	Room T501/1'x1' Ceiling Tile	Grey, ceiling tile	ND		75	25
164A-150525-2B	A120279-8	Room T509/1'x1' Ceiling Tile	Grey, ceiling tile	ND		75	25
164A-150525-2C	A120279-9	Room T518/1'x1' Ceiling Tile	Grey, ceiling tile	ND		75	25
164A-150525-3A	A120279-10 <sup>6</sup>	Room T504/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
164A-150525-3B	A120279-11 <sup>6</sup>	Room T512/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100

**EMC LAB REPORT NUMBER:** A120279

**Client's Job/Project No.:** 1793331

**Analyst:** Arth Parikh

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-150525-3C	A120279-12 <sup>6</sup>	Room T513/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
164A-150525-3D	A120279-13 <sup>6</sup>	Room T525/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
164A-150525-3E	A120279-14 <sup>6</sup>	Room T531/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
164A-150525-3F	A120279-15 <sup>7</sup>	Room T592/Wall Plaster	White, plaster	ND			100
164A-150525-4A	A120279-16	Room T501 (Under carpet)/Floor Mastic	Yellow, mastic	ND		1	99
164A-150525-4B	A120279-17	Room T509 (Under carpet)/Floor Mastic	Yellow, mastic	ND		1	99
164A-150525-4C	A120279-18	Room T511 (Under carpet)/Floor Mastic	Yellow, mastic	ND		1	99
164A-150525-5A	A120279-19	Room T593/12"x12" Grey grey/black/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Yellow and off white, mastic	ND ND			100 100
164A-150525-5B	A120279-20	Room T594/12"x12" Grey grey/black/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Yellow and off white, mastic	ND ND			100 100
164A-150525-5C	A120279-21	Room T594/12"x12" Grey grey/black/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Yellow and off white, mastic	ND ND			100 100

**EMC LAB REPORT NUMBER:** A120279

**Client's Job/Project No.:** 1793331

**Analyst:** Arth Parikh

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-150525-6A	A120279-22 <sup>7</sup>	Room T504 (Under carpet)/12"x12" Off.White with Grey streaks with mastic	2 Phases: a) Yellow, mastic b) Off white, vinyl floor tile	<b>ND</b> <b>Chrysotile</b>	<b>1</b>	1	99
164A-150525-6B	A120279-23 <sup>8</sup>	Room T505 (Under carpet)/12"x12" Off.White with Grey streaks with mastic	3 Phases: a) Yellow, mastic b) NA c) Black, mastic	<b>ND</b> <b>NA</b> <b>Chrysotile</b>	<b>&lt;0.5</b>	1	99
164A-150525-6C	A120279-24	Room T510 (Under carpet)/12"x12" Off.White with Grey streaks with mastic	Phases: a) Yellow, mastic b) NA c) Black, mastic	<b>ND</b> <b>NA</b> <b>ND</b>		1	99
164A-150525-7A	A120279-25	Room T501/1'x1' Ceiling Tile Glue	Brown, mastic	<b>ND</b>			100
164A-150525-7B	A120279-26	Room T509/1'x1' Ceiling Tile Glue	Brown, mastic	<b>ND</b>			100
164A-150525-7C	A120279-27	Room T518/1'x1' Ceiling Tile Glue	Brown, mastic	<b>ND</b>			100
164A-150525-8A	A120279-28 <sup>7</sup>	Room T693S / Wall Texture Finish	Off white, primer	<b>Chrysotile</b>	<b>0.5</b>		99.5
164A-150525-8B	A120279-29	Room T594S / Wall Texture Finish	NA	<b>NA</b>			
164A-150525-8C	A120279-30	Room T494S / Wall Texture Finish	NA	<b>NA</b>			

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
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**EMC LAB REPORT NUMBER:** A120279

**Client's Job/Project No.:** 1793331


**Analyst:** Arth Parikh

- of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
  5. Sample is small in size.
  6. Phase b) is small in size.
  7. Another phase is present but is too small to analyze.
  8. Phase c) is small in size.
  9. Vinyl floor tiles may contain very fine asbestos fibres which the PLM method cannot detect. TEM analysis may be necessary to confirm the absence of asbestos.

A120279

UNIVERSITY OF TORONTO		REQUEST FOR ANALYSIS			
Ship To: EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		Shipped Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		PLM Bulk xx TEM Bulk Bulk Mould PCM Air Other	
Samples Collected By: Faiq Amir		Project, S.O. #: 1793331			
		Building Name: CAMH (164A)			
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-150525-1A	15-May-25	Room T501	Drywall Joint Compound	X	
164A-150525-1B	15-May-25	Room T511	Drywall Joint Compound	X	
164A-150525-1C	15-May-25	Room T514	Drywall Joint Compound	X	
164A-150525-1D	15-May-25	Room T527	Drywall Joint Compound	X	
164A-150525-1E	15-May-25	Room T532	Drywall Joint Compound	X	
164A-150525-1F	15-May-25	Room T592	Drywall Joint Compound	X	
164A-150525-2A	15-May-25	Room T501	1'x1' Ceiling Tile	X	
164A-150525-2B	15-May-25	Room T509	1'x1' Ceiling Tile	X	
164A-150525-2C	15-May-25	Room T518	1'x1' Ceiling Tile	X	
164A-150525-3A	15-May-25	Room T504	Wall Plaster	X	
164A-150525-3B	15-May-25	Room T512	Wall Plaster	X	
164A-150525-3C	15-May-25	Room T513	Wall Plaster	X	
164A-150525-3D	15-May-25	Room T525	Wall Plaster	X	
164A-150525-3E	15-May-25	Room T531	Wall Plaster	X	
164A-150525-3F	15-May-25	Room T592	Wall Plaster	X	
Relinquished By: Faiq Amir			Signature: 		Date: 21-May-25
Received By: Amy Bradford			Signature: 		Date: 22-May-25
Analyzed By: Arsh Parikh			Signature: 		Date: May 30 '25
Comments: Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca With CC to: chs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca					

A120279

UNIVERSITY OF TORONTO			REQUEST FOR ANALYSIS		
Ship To: EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		Shipped Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		PLM Bulk xx	
Samples Collected By: Faiq Amir		Project, S.O. #: 1793331 Building Name: CAMH (164A)		TEM Bulk	
				Bulk Mould	
				PCM Air	
				Other	
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-150525-4A	15-May-25	Room T501 (Under carpet)	Floor Mastic	X	
164A-150525-4B	15-May-25	Room T509 (Under carpet)	Floor Mastic	X	
164A-150525-4C	15-May-25	Room T511 (Under carpet)	Floor Mastic	X	
164A-150525-5A	15-May-25	Room T593	12"x12" Grey grey/black/white streaks with mastic	X	
164A-150525-5B	15-May-25	Room T594	12"x12" Grey grey/black/white streaks with mastic	X	
164A-150525-5C	15-May-25	Room T594	12"x12" Grey grey/black/white streaks with mastic	X	
164A-150525-6A	15-May-25	Room T504 (Under carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-150525-6B	15-May-25	Room T505 (Under carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-150525-6C	15-May-25	Room T510 (Under carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-150525-7A	15-May-25	Room T501	1'x1' Ceiling Tile Glue	X	
164A-150525-7B	15-May-25	Room T509	1'x1' Ceiling Tile Glue	X	
164A-150525-7C	15-May-25	Room T518	1'x1' Ceiling Tile Glue	X	
164A-150525-8A	15-May-25	Room T693S	Wall Texture Finish	X	
164A-150525-8B	15-May-25	Room T594S	Wall Texture Finish	X	
164A-150525-8C	15-May-25	Room T494S	Wall Texture Finish	X	
Relinquished By: Faiq Amir			Signature: 		Date: 21-May-25
Received By: Amy Bradford			Signature: Amy B		Date: 22 May '25
Analyzed By:			Signature:		Date:
			Signature:		Date:
<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca With CC to: ehs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca					

AS MAT 23 25 845 Puro.



# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A120280

**Project Name:** CAMH (164A)

**Analysis Method:** Polarized Light Microscopy – EPA 600

**Date Received:** May 23/25

**Date Analyzed:** Jun 1&2/25

**Analyst:** Katelyn Stolte

**Reviewed By:** Malgorzata Sybydo

**Project No:** 1793331

**Number of Samples:** 63

**Date Reported:** June 2/25

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-160525-1A	A120280-1	Room T401 (Under Carpet)/12"x12" Off.White with Grey streaks with mastic	3 Phases: a) Yellow, mastic b) Off white, vinyl floor tile c) Black and dark brown, mastic	<b>ND</b> <b>Chrysotile</b> <b>ND</b>	<b>1</b>	3	97 99 100
164A-160525-1B	A120280-2	Room T404 (Under Carpet)/12"x12" Off.White with Grey streaks with mastic	3 Phases: a) Yellow, mastic b) NA c) Black, mastic	<b>ND</b> <b>NA</b> <b>ND</b>		3	97  100
164A-160525-1C	A120280-3	Room T407 (Under Carpet)/12"x12" Off.White with Grey streaks with mastic	3 Phases: a) Yellow, mastic b) NA c) Black, mastic	<b>ND</b> <b>NA</b> <b>ND</b>		3	97  100
164A-160525-2A	A120280-4	Room T402/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	<b>ND</b> <b>ND</b>			100 100
164A-160525-2B	A120280-5 <sup>6</sup>	Room T404/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	<b>ND</b> <b>ND</b>			100 100
164A-160525-2C	A120280-6	Room T408/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	<b>ND</b> <b>ND</b>			100 100
164A-160525-2D	A120280-7 <sup>6</sup>	Room T412/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	<b>ND</b> <b>ND</b>			100 100

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**Client's Job/Project No.:** 1793331

**Analyst:** Katelyn Stolte

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-160525-2E	A120280-8	Room T416/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND			100
164A-160525-2F	A120280-9 <sup>6</sup>	Room T421/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND			100
164A-160525-3A	A120280-10	Room T406 (Under Carpet)/Floor Mastic	2 Phases: a) Black, brown and yellow, mastic b) Grey, cementitious material	ND		1	99
164A-160525-3B	A120280-11	Room T405 (Under Carpet)/Floor Mastic	Black and brown, mastic	ND		1	99
164A-160525-3C	A120280-12	Room T420 (Under Carpet)/Floor Mastic	Black and brown, mastic	ND		1	99
164A-160525-4A	A120280-13 <sup>7</sup>	Room T408/Drywall Joint Compound	White, plaster	ND			100
164A-160525-4B	A120280-14	Room T409/Drywall Joint Compound	White, plaster	ND			100
164A-160525-4C	A120280-15	Room T414/Drywall Joint Compound	White, plaster	ND			100
164A-160525-4D	A120280-16	Room T416/Drywall Joint Compound	White, plaster	ND			100
164A-160525-4E	A120280-17	Room T421/Drywall Joint Compound	White, plaster	ND			100
164A-160525-4F	A120280-18	Room T430/Drywall Joint Compound	2 Phases: a) White, joint compound	ND			100

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**Analyst:** Katelyn Stolte

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
			b) Off white, joint compound	<b>Chrysotile</b>	<b>3</b>		97
164A-160525-5A	A120280-19	Room T491/1'x1' Ceiling Tile	Off white, ceiling tile	<b>ND</b>		75	25
164A-160525-5B	A120280-20	Room T490/1'x1' Ceiling Tile	Off white, ceiling tile	<b>ND</b>		75	25
164A-160525-5C	A120280-21	Room T402/1'x1' Ceiling Tile	Off white, ceiling tile	<b>ND</b>		75	25
164A-160525-6A	A120280-22	Room T491/1'x1' Ceiling Tile Glue	Brown, mastic	<b>ND</b>			100
164A-160525-6B	A120280-23	Room T490/1'x1' Ceiling Tile Glue	Brown, mastic	<b>ND</b>			100
164A-160525-6C	A120280-24	Room T402/1'x1' Ceiling Tile Glue	Brown, mastic	<b>ND</b>			100
164A-160525-7A	A120280-25	Room T418/12"x12" Grey with Grey/white streaks with mastic	2 Phases: a) Light grey, vinyl floor tile b) Black and yellow, mastic	<b>ND</b> <b>ND</b>		1	100 99
164A-160525-7B	A120280-26	Room T418/12"x12" Grey with Grey/white streaks with mastic	2 Phases: a) Light grey, vinyl floor tile b) Black and yellow, mastic	<b>ND</b> <b>ND</b>		1	100 99
164A-160525-7C	A120280-27	Room T418/12"x12" Grey with Grey/white streaks with mastic	2 Phases: a) Light grey, vinyl floor tile b) Black and yellow, mastic	<b>ND</b> <b>ND</b>		1	100 99
164A-160525-8A	A120280-28	Room T421/12"x12" Black with white pebbles with mastic	Black, vinyl floor tile	<b>ND</b>			100
164A-160525-8B	A120280-29	Room T421/12"x12" Black with white pebbles with mastic	Black, vinyl floor tile	<b>ND</b>			100

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Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-160525-8C	A120280-30	Room T421/12"x12" Black with white pebbles with mastic	Black, vinyl floor tile	ND			100
164A-160525-9A	A120280-31	Room T422 (Under Carpet)/12"x12" Off.White with Grey streaks with mastic	2 Phases: a) Off white, vinyl floor tile b) Black, mastic	Chrysotile ND	1		99 100
164A-160525-9B	A120280-32	Room T413 (Under Carpet)/12"x12" Off.White with Grey streaks with mastic	2 Phases: a) NA b) Black, mastic	NA ND			100
164A-160525-9C	A120280-33	Room T401 (Under Carpet)/12"x12" Off.White with Grey streaks with mastic	3 Phases: a) NA b) Black, mastic	NA ND			100
164A-160525-10A	A120280-34	Room T490/12"x12" Grey grey/black/white streaks with mastic	3 Phases: a) Colourless, mastic b) Grey, vinyl floor tile c) Black and yellow, mastic	ND ND ND		5 1	95 100 99
164A-160525-10B	A120280-35	Room T491/12"x12" Grey grey/black/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Black and yellow, mastic	ND ND		1	100 99
164A-160525-10C	A120280-36	Room T492/12"x12" Grey grey/black/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Black and yellow, mastic	ND ND		1	100 99
164A-160525-11A	A120280-37	Room T301/12"x12" Cream with diamond pebbles with mastic	2 Phases: a) White, vinyl floor tile b) Yellow, mastic	ND ND		1	100 99
164A-160525-11B	A120280-38	Room T301/12"x12" Cream with diamond pebbles with mastic	2 Phases: a) White, vinyl floor tile	ND			100

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**Analyst:** Katelyn Stolte

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
			b) Yellow, mastic	ND		1	99
164A-160525-11C	A120280-39	Room T301/12"x12" Cream with diamond pebbles with mastic	2 Phases: a) White, vinyl floor tile b) Yellow, mastic	ND ND		1	100 99
164A-160525-12A	A120280-40	Room T304 (Under carpet)/12"x12" Off.White with Grey streaks with mastic	4 Phases: a) Yellow, mastic b) Off white, vinyl floor tile c) Black, mastic d) Grey, cementitious material	ND Chrysotile ND ND	1	1 1	99 99 99 100
164A-160525-12B	A120280-41	Room T310 (Under carpet)/12"x12" Off.White with Grey streaks with mastic	4 Phases: a) Yellow, mastic b) NA c) Black, mastic d) Grey, cementitious material	ND NA ND ND		1 1	99 99 99 100
164A-160525-12C	A120280-42	Room T322 (Under carpet)/12"x12" Off.White with Grey streaks with mastic	2 Phases: a) NA b) Black, mastic	NA ND			100
164A-160525-13A	A120280-43	Room T390/12"x12" Grey grey/black/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Colourless, mastic	ND ND		1	100 99
164A-160525-13B	A120280-44 <sup>8</sup>	Room T391/12"x12" Grey grey/black/white streaks with mastic	3 Phases: a) Grey, vinyl floor tile b) Colourless and yellow, mastic c) Off white, vinyl floor tile	ND ND Chrysotile	1	2	100 98 99
164A-160525-13C	A120280-45	Room T392/12"x12" Grey grey/black/white streaks with mastic	3 Phases: a) Yellow and black, mastic	ND		1	99



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Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
			b) Grey, vinyl floor tile c) Colourless, mastic	ND			100
				ND		1	99
164A-160525-14A	A120280-46	Room T301/1'x1' Ceiling Tile	Off white, ceiling tile	ND		75	25
164A-160525-14B	A120280-47	Room T310/1'x1' Ceiling Tile	Off white, ceiling tile	ND		75	25
164A-160525-14C	A120280-48	Room T390/1'x1' Ceiling Tile	Off white, ceiling tile	ND		75	25
164A-160525-15A	A120280-49	Room T301/1'x1' Ceiling Tile Glue	Brown, mastic	ND			100
164A-160525-15B	A120280-50	Room T310/1'x1' Ceiling Tile Glue	Brown, mastic	ND			100
164A-160525-15C	A120280-51	Room T390/1'x1' Ceiling Tile Glue	Brown, mastic	ND			100
164A-160525-16A	A120280-52	Room T315/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND			100
				ND			100
164A-160525-16B	A120280-53	Room T317/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND			100
				ND			100
164A-160525-16C	A120280-54 <sup>6</sup>	Room T320/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND			100
				ND			100
164A-160525-16D	A120280-55	Room T320A/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND			100
				ND			100

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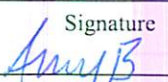
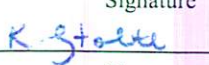
Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-160525-16E	A120280-56 <sup>9</sup>	Room T321/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
164A-160525-16F	A120280-57 <sup>9</sup>	Room T326/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
164A-160525-17A	A120280-58	Room T325/Drywall Joint Compound	Off white, joint compound	Chrysotile	3		97
164A-160525-17B	A120280-59	Room T327/Drywall Joint Compound	NA	NA			
164A-160525-17C	A120280-60	Room T393/Drywall Joint Compound	NA	NA			
164A-160525-17D	A120280-61	Room T392/Drywall Joint Compound	NA	NA			
164A-160525-17E	A120280-62	Room T391/Drywall Joint Compound	NA	NA			
164A-160525-17F	A120280-63	Room T390/Drywall Joint Compound	NA	NA			

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. Vinyl floor tiles may contain very fine asbestos fibres which the PLM method cannot detect. TEM analysis may be necessary to confirm the absence of asbestos.
6. Phase b) is small in size.
7. This sample is small in size.
8. Phase c) is small in size.
9. Phase a) is small in size.



A120280




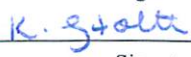
UNIVERSITY OF TORONTO		REQUEST FOR ANALYSIS			
<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		<b>Shipped</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		<b>PLM Bulk xx</b> <b>TEM Bulk</b> <b>Bulk Mould</b> <b>PCM Air</b> <b>Other</b>	
<b>Samples Collected By:</b> Faiq Amir		<b>Project, S.O. #:</b> 1793331			
		<b>Building Name:</b> CAMH (164A)			
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-160525-1A	16-May-25	Room T401 (Under Carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-160525-1B	16-May-25	Room T404 (Under Carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-160525-1C	16-May-25	Room T407 (Under Carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-160525-2A	16-May-25	Room T402	Wall Plaster	X	
164A-160525-2B	16-May-25	Room T404	Wall Plaster	X	
164A-160525-2C	16-May-25	Room T408	Wall Plaster	X	
164A-160525-2D	16-May-25	Room T412	Wall Plaster	X	
164A-160525-2E	16-May-25	Room T416	Wall Plaster	X	
164A-160525-2F	16-May-25	Room T421	Wall Plaster	X	
164A-160525-3A	16-May-25	Room T406 (Under Carpet)	Floor Mastic	X	
164A-160525-3B	16-May-25	Room T405 (Under Carpet)	Floor Mastic	X	
164A-160525-3C	16-May-25	Room T420 (Under Carpet)	Floor Mastic	X	
164A-160525-4A	16-May-25	Room T408	Drywall Joint Compound	X	
164A-160525-4B	16-May-25	Room T409	Drywall Joint Compound	X	
164A-160525-4C	16-May-25	Room T414	Drywall Joint Compound	X	
164A-160525-4D	16-May-25	Room T416	Drywall Joint Compound	X	
164A-160525-4E	16-May-25	Room T421	Drywall Joint Compound	X	
164A-160525-4F	16-May-25	Room T430	Drywall Joint Compound	X	
<b>Relinquished By:</b> Faiq Amir Print Name		 Signature		21-May-25 Date	
<b>Received By:</b> Amy Bradford Print Name		 Signature		22-May-25 Date	
<b>Analyzed By:</b> Katelyn Stoltz Print Name		 Signature		June 1/25 Date	
<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shen@utoronto.ca With CC to: ehs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca					

AS MAY 23/25 845 Puro.



<b>UNIVERSITY OF TORONTO</b>			<b>REQUEST FOR ANALYSIS</b>		
<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607			<b>Shipped</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		PLM Bulk xx
					TEM Bulk
			<b>Project, S.O. #:</b> 1793331		Bulk Mould
					PCM Air
<b>Samples Collected By:</b>	Faiq Amir		<b>Building Name:</b> CAMH (164A)		Other
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-160525-5A	16-May-25	Room T491	1'x1' Ceiling Tile	X	
164A-160525-5B	16-May-25	Room T490	1'x1' Ceiling Tile	X	
164A-160525-5C	16-May-25	Room T402	1'x1' Ceiling Tile	X	
164A-160525-6A	16-May-25	Room T491	1'x1' Ceiling Tile Glue	X	
164A-160525-6B	16-May-25	Room T490	1'x1' Ceiling Tile Glue	X	
164A-160525-6C	16-May-25	Room T402	1'x1' Ceiling Tile Glue	X	
164A-160525-7A	16-May-25	Room T418	12"x12" Grey with Grey/white streaks with mastic	X	
164A-160525-7B	16-May-25	Room T418	12"x12" Grey with Grey/white streaks with mastic	X	
164A-160525-7C	16-May-25	Room T418	12"x12" Grey with Grey/white streaks with mastic	X	
164A-160525-8A	16-May-25	Room T421	12"x12" Black with white pebbles with mastic	X	
164A-160525-8B	16-May-25	Room T421	12"x12" Black with white pebbles with mastic	X	
164A-160525-8C	16-May-25	Room T421	12"x12" Black with white pebbles with mastic	X	
164A-160525-9A	16-May-25	Room T422 (Under Carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-160525-9B	16-May-25	Room T413 (Under Carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-160525-9C	16-May-25	Room T401 (Under Carpet)	12"x12" Off.White with Grey streaks with mastic	X	
<b>Relinquished By:</b> <u>Faiq Amir</u> Print Name				<u>21-May-25</u> Date	
<b>Received By:</b> <u>Amy Bradford</u> Print Name				<u>Amy B</u> Signature	
<b>Analyzed By:</b> <u>Katelyn Stolte</u> Print Name				<u>K. Stolte</u> Signature	
				Date	
<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca With CC to: ehs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca					

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 <b>UNIVERSITY OF TORONTO</b>			<b>REQUEST FOR ANALYSIS</b>		
<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		<b>Shipped</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		<b>PLM Bulk</b> xx <b>TEM Bulk</b> <b>Bulk Mould</b> <b>PCM Air</b> <b>Other</b>	
<b>Samples Collected By:</b> Faiq Amir		<b>Project, S.O. #:</b> 1793331 <b>Building Name:</b> CAMH (164A)			
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-160525-10A	16-May-25	Room T490	12"x12" Grey grey/black/white streaks with mastic	X	
164A-160525-10B	16-May-25	Room T491	12"x12" Grey grey/black/white streaks with mastic	X	
164A-160525-10C	16-May-25	Room T492	12"x12" Grey grey/black/white streaks with mastic	X	
164A-160525-11A	16-May-25	Room T301	12"x12" Cream with diamond pebbles with mastic	X	
164A-160525-11B	16-May-25	Room T301	12"x12" Cream with diamond pebbles with mastic	X	
164A-160525-11C	16-May-25	Room T301	12"x12" Cream with diamond pebbles with mastic	X	
164A-160525-12A	16-May-25	Room T304 (Under carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-160525-12B	16-May-25	Room T310 (Under carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-160525-12C	16-May-25	Room T322 (Under carpet)	12"x12" Off.White with Grey streaks with mastic	X	
164A-160525-13A	16-May-25	Room T390	12"x12" Grey grey/black/white streaks with mastic	X	
164A-160525-13B	16-May-25	Room T391	12"x12" Grey grey/black/white streaks with mastic	X	
164A-160525-13C	16-May-25	Room T392	12"x12" Grey grey/black/white streaks with mastic	X	
164A-160525-14A	16-May-25	Room T301	1'x1' Ceiling Tile	X	
164A-160525-14B	16-May-25	Room T310	1'x1' Ceiling Tile	X	
164A-160525-14C	16-May-25	Room T390	1'x1' Ceiling Tile	X	
<b>Relinquished By:</b> Faiq Amir Print Name			 Signature		21-May-25 Date
<b>Received By:</b> Amy Bradford Print Name			 Signature		22-May-25 Date
<b>Analyzed By:</b> Katelyn Stolte Print Name			 Signature		June 2/25 Date
<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca With CC to: ehs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca					

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UNIVERSITY OF  
TORONTO

# REQUEST FOR ANALYSIS

Ship To: EMC Scientific Inc.

Sample Reception

5800 Ambler Drive, Suite 100, Mississauga, ON  
L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607

Shipped

Environmental Health & Safety, 7th Floor  
215 Huron Street Toronto, Ontario M5S 1A1

PLM Bulk xx

TEM Bulk

Bulk Mould

PCM Air

Other

Samples Collected  
By:

Faiq Amir

Project, S.O. #:

1793331

Building Name:

CAMH (164A)

Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-160525-15A	16-May-25	Room T301	1'x1' Ceiling Tile Glue	X	
164A-160525-15B	16-May-25	Room T310	1'x1' Ceiling Tile Glue	X	
164A-160525-15C	16-May-25	Room T390	1'x1' Ceiling Tile Glue	X	
164A-160525-16A	16-May-25	Room T315	Wall Plaster	X	
164A-160525-16B	16-May-25	Room T317	Wall Plaster	X	
164A-160525-16C	16-May-25	Room T320	Wall Plaster	X	
164A-160525-16D	16-May-25	Room T320A	Wall Plaster	X	
164A-160525-16E	16-May-25	Room T321	Wall Plaster	X	
164A-160525-16F	16-May-25	Room T326	Wall Plaster	X	
164A-160525-17A	16-May-25	Room T325	Drywall Joint Compound	X	
164A-160525-17B	16-May-25	Room T327	Drywall Joint Compound	X	
164A-160525-17C	16-May-25	Room T393	Drywall Joint Compound	X	
164A-160525-17D	16-May-25	Room T392	Drywall Joint Compound	X	
164A-160525-17E	16-May-25	Room T391	Drywall Joint Compound	X	
164A-160525-17F	16-May-25	Room T390	Drywall Joint Compound	X	

Relinquished By:

Faiq Amir

Print Name

Signature

21-May-25

Date

Received By:

Print Name

Signature

22-May-25

Date

Analyzed By:

Print Name

Signature

June 2/25

Date

**Comments:** Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca  
With CC to: ehs.office@utoronto.ca  
irfan.miraj@utoronto.ca  
doug.colby@utoronto.ca  
faiq.amir@utoronto.ca

# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A120281r  
**Project Name:** CAMH (164A)  
**Analysis Method:** Polarized Light Microscopy – EPA 600  
**Date Received:** May 23/25 **Date Analyzed:** May 30/25  
**Analyst:** John Paul Cantillon  
**Reviewed By:** Malgorzata Sybydo

**Project No:** 1793331  
**Number of Samples:** 39  
**Date Reported:** May 30/25

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-200525-1A	A120281-1	Room T201 (Under Carpet)/Floor Mastic	Brown, mastic	ND			100
164A-200525-1B	A120281-2	Room T203 (Under Carpet)/Floor Mastic	Brown, mastic	ND			100
164A-200525-1C	A120281-3	Room T294 (Under Carpet)/Floor Mastic	Brown, mastic	ND			100
164A-200525-2A	A120281-4	Room T201/2'x2' Multiple Pinholes	Grey, ceiling tile	ND		75	25
164A-200525-2B	A120281-5	Room T210/2'x2' Multiple Pinholes	Grey, ceiling tile	ND		75	25
164A-200525-2C	A120281-6	Room T294/2'x2' Multiple Pinholes	Grey, ceiling tile	ND		75	25
164A-200525-3A	A120281-7	Room T201/1'x1' Ceiling Tile	Grey, ceiling tile	ND		75	25
164A-200525-3B	A120281-8	Room T203/1'x1' Ceiling Tile	Grey, ceiling tile	ND		75	25
164A-200525-3C	A120281-9	Room T290/1'x1' Ceiling Tile	Grey, ceiling tile	ND		75	25
164A-200525-4A	A120281-10	Room T201/1'x1' Ceiling Tile Glue	Brown, mastic	ND			100
164A-200525-4B	A120281-11	Room T203/1'x1' Ceiling Tile Glue	Brown, mastic	ND			100
164A-200525-4C	A120281-12	Room T290/1'x1' Ceiling Tile Glue	Brown, mastic	ND			100

**EMC LAB REPORT NUMBER:** A120281

**Client's Job/Project No.:** 1793331

**Analyst:** John Paul Cantillon

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-200525-5A	A120281-13	Room T203/Window Caulking	Dark brown, caulking	<b>Chrysotile</b>	<b>1</b>		99
164A-200525-5B	A120281-14	Room T203/Window Caulking	NA	<b>NA</b>			
164A-200525-5C	A120281-15	Room T204/Window Caulking	NA	<b>NA</b>			
164A-200525-6A	A120281-16	Room T201 (Above Ceiling Tiles)/Ceiling-Texture Finish	2 Phases: a) White, textured cementitious material	<b>ND</b>			100
			b) Grey, cementitious material	<b>ND</b>			100
164A-200525-6B	A120281-17	Room T201 (Above Ceiling Tiles)/Ceiling-Texture Finish	2 Phases: a) White, textured cementitious material	<b>ND</b>			100
			b) Grey, cementitious material	<b>ND</b>			100
164A-200525-6C	A120281-18	Room T201 (Above Ceiling Tiles)/Ceiling-Texture Finish	2 Phases: a) White, textured cementitious material	<b>ND</b>			100
			b) Grey, cementitious material	<b>ND</b>			100
164A-200525-7A	A120281-19	Room T207 (Under Carpet)/12"x12" Off.White with Grey streaks with mastic	3 Phases: a) Yellow, mastic	<b>ND</b>	<b>1</b>		100
			b) Off white, vinyl floor tile	<b>Chrysotile</b>			99
			c) Black, mastic	<b>ND</b>			100
164A-200525-7B	A120281-20	Room T209 (Under Carpet)/12"x12" Off.White with Grey streaks with mastic	3 Phases: a) Yellow, mastic	<b>ND</b>			100
			b) Off white, vinyl floor tile	<b>NA</b>			
			c) Black, mastic	<b>ND</b>			100



**EMC LAB REPORT NUMBER:** A120281

**Client's Job/Project No.:** 1793331

**Analyst:** John Paul Cantillon

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-200525-7C	A120281-21	Room T290 (Under Carpet)/12"x12" Off.White with Grey streaks with mastic	2 Phases: a) Yellow, mastic b) Off white, vinyl floor tile	ND NA			100
164A-200525-8A	A120281-22	Room T210/12"x12" Grey with Grey/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Yellow, mastic	ND ND			100 100
164A-200525-8B	A120281-23	Room T210/12"x12" Grey with Grey/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Yellow, mastic	ND ND			100 100
164A-200525-8C	A120281-24	Room T210/12"x12" Grey with Grey/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Yellow, mastic	ND ND			100 100
164A-200525-9A	A120281-25	Room T291/12"x12" Grey with Black/grey/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Yellow, mastic	ND ND			100 100
164A-200525-9B	A120281-26	Room T291/12"x12" Grey with Black/grey/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Yellow, mastic	ND ND			100 100
164A-200525-9C	A120281-27	Room T291/12"x12" Grey with Black/grey/white streaks with mastic	2 Phases: a) Grey, vinyl floor tile b) Yellow, mastic	ND ND			100 100
164A-200525-10A	A120281-28	Room T201/Drywall Joint Compound	White, joint compound	ND			100
164A-200525-10B	A120281-29	Room T207/Drywall Joint Compound	White, joint compound	ND			100
164A-	A120281-30	Room T209/Drywall Joint	White, joint compound	ND			100

**EMC LAB REPORT NUMBER:** A120281

**Client's Job/Project No.:** 1793331

**Analyst:** John Paul Cantillon

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
200525-10C		Compound					
164A-200525-10D	A120281-31	Room T212/Drywall Joint Compound	White, joint compound	ND			100
164A-200525-10E	A120281-32 <sup>6</sup>	Room T213/Drywall Joint Compound	White, joint compound	ND			100
164A-200525-10F	A120281-33 <sup>6</sup>	Room T290/Drywall Joint Compound	White, joint compound	ND			100
164A-200525-11A	A120281-34	Room T201/Wall Plaster	White, plaster	ND			100
164A-200525-11B	A120281-35 <sup>8</sup>	Room T203/Wall Plaster	2 Phases: a) White, plaster b) Light grey, plaster	ND ND			100 100
164A-200525-11C	A120281-36 <sup>8</sup>	Room T207/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
164A-200525-11D	A120281-37 <sup>8</sup>	Room T208/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
164A-200525-11E	A120281-38 <sup>7</sup>	Room T290/Wall Plaster	White, plaster	ND			100
164A-200525-11F	A120281-39	Room T294/Wall Plaster	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.

2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).

**EMC Scientific Inc.** 5800 Ambler Drive • Suite 100 • Mississauga • Ontario • L4W 4J4 • T. 905 629 9247 • F. 905 629 2607

EMC Scientific Inc. is Accredited by NVLAP (NVLAP Code 201020-0) for Bulk Asbestos Analysis

**EMC LAB REPORT NUMBER:** A120281

**Client's Job/Project No.:** 1793331

**Analyst:** John Paul Cantillon

3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. Vinyl floor tiles may contain very fine asbestos fibres which the PLM method cannot detect. TEM analysis may be necessary to confirm the absence of asbestos.
6. This sample is small in size.
7. Another phase is present but is too small to analyze.
8. Phase b) is small in size.



UNIVERSITY OF  
TORONTO

# REQUEST FOR ANALYSIS

Ship To: EMC Scientific Inc.  
Sample Reception  
5800 Ambler Drive, Suite 100, Mississauga, ON  
L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607

Shipped  
Environmental Health & Safety, 7th Floor  
215 Huron Street Toronto, Ontario M5S 1A1

PLM Bulk xx  
TEM Bulk  
Bulk Mould  
PCM Air  
Other

Samples Collected  
By:

Faiq Amir

Project, S.O. #: 1793331

Building Name: CAMH (164A)

Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-200525-11A	20-May-25	Room T201	Wall Plaster	X	24
164A-200525-11B	20-May-25	Room T203	Wall Plaster	X	25
164A-200525-11C	20-May-25	Room T207	Wall Plaster	X	26
164A-200525-11D	20-May-25	Room T208	Wall Plaster	X	27
164A-200525-11E	20-May-25	Room T290	Wall Plaster	X	28
164A-200525-11F	20-May-25	Room T294	Wall Plaster	X	29
				X	30

Relinquished By:

Faiq Amir

Print Name

Signature

21-May-25

Date

Received By:

Amy Bradford

Print Name

Signature

22-May-25

Date

Analyzed By:

Print Name

Signature

Date

Comments: Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca  
With CC to: ehs.office@utoronto.ca  
irfan.miraj@utoronto.ca  
doug.colby@utoronto.ca  
faiq.amir@utoronto.ca



A 120281




UNIVERSITY OF TORONTO		REQUEST FOR ANALYSIS			
<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		<b>Shipped From:</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		PLM Bulk xx	
				TEM Bulk	
<b>Samples Collected By:</b> Faiq Amir		<b>Project, S.O. #:</b> 1793331		Bulk Mould	
				PCM Air	
<b>Building Name:</b> CAMH (164A)				Other	
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-200525-1A	20-May-25	Room T201 (Under Carpet)	Floor Mastic	X	1
164A-200525-1B	20-May-25	Room T203 (Under Carpet)	Floor Mastic	X	2
164A-200525-1C	20-May-25	Room T294 (Under Carpet)	Floor Mastic	X	3
164A-200525-2A	20-May-25	Room T201	2'x2' Multiple Pinholes	X	4
164A-200525-2B	20-May-25	Room T210	2'x2' Multiple Pinholes	X	5
164A-200525-2C	20-May-25	Room T294	2'x2' Multiple Pinholes	X	6
164A-200525-3A	20-May-25	Room T201	1'x1' Ceiling Tile	X	7
164A-200525-3B	20-May-25	Room T203	1'x1' Ceiling Tile	X	8
164A-200525-3C	20-May-25	Room T290	1'x1' Ceiling Tile	X	9
164A-200525-4A	20-May-25	Room T201	1'x1' Ceiling Tile Glue	X	10
164A-200525-4B	20-May-25	Room T203	1'x1' Ceiling Tile Glue	X	11
164A-200525-4C	20-May-25	Room T290	1'x1' Ceiling Tile Glue	X	12
164A-200525-5A	20-May-25	Room T203	Window Caulking	X	13
164A-200525-5B	20-May-25	Room T203	Window Caulking	X	14
164A-200525-5C	20-May-25	Room T204	Window Caulking	X	15
164A-200525-6A	20-May-25	Room T201 (Above Ceiling Tiles)	Ceiling-Texture Finish	X	16
164A-200525-6B	20-May-25	Room T201 (Above Ceiling Tiles)	Ceiling-Texture Finish	X	17
164A-200525-6C	20-May-25	Room T201 (Above Ceiling Tiles)	Ceiling-Texture Finish	X	18
<b>Relinquished By:</b> Faiq Amir Print Name: _____ Signature: _____ Date: 21-May-25				<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shen@utoronto.ca With CC to: ehs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca	
<b>Received By:</b> Amy Bradford Print Name: _____ Signature: _____ Date: 22-May-25					
<b>Analyzed By:</b> John Paul Cantillon Print Name: _____ Signature: _____ Date: 30-May-25					

AS

MAY 23/25

845

Puro.

 <b>UNIVERSITY OF TORONTO</b>			<b>REQUEST FOR ANALYSIS</b>		
<b>Ship To:</b> EMC Scientific Inc. <b>Sample Reception</b> 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607			<b>Shipped</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		<b>PLM Bulk</b> xx <b>TEM Bulk</b> <b>Bulk Mould</b> <b>PCM Air</b> <b>Other</b>
<b>Samples Collected By:</b> Faiq Amir			<b>Project, S.O. #:</b> 1793331 <b>Building Name:</b> CAMH (164A)		
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-200525-7A	20-May-25	Room T207 (Under Carpet)	12"x12" Off.White with Grey streaks with mastic	X	19
164A-200525-7B	20-May-25	Room T209 (Under Carpet)	12"x12" Off.White with Grey streaks with mastic	X	20
164A-200525-7C	20-May-25	Room T290 (Under Carpet)	12"x12" Off.White with Grey streaks with mastic	X	21
164A-200525-8A	20-May-25	Room T210	12"x12" Grey with Grey/white streaks with mastic	X	22
164A-200525-8B	20-May-25	Room T210	12"x12" Grey with Grey/white streaks with mastic	X	23
164A-200525-8C	20-May-25	Room T210	12"x12" Grey with Grey/white streaks with mastic	X	24
164A-200525-9A	20-May-25	Room T291	12"x12" Grey with Black/grey/white streaks with mastic	X	25
164A-200525-9B	20-May-25	Room T291	12"x12" Grey with Black/grey/white streaks with mastic	X	26
164A-200525-9C	20-May-25	Room T291	12"x12" Grey with Black/grey/white streaks with mastic	X	27
164A-200525-10A	20-May-25	Room T201	Drywall Joint Compound	X	28
164A-200525-10B	20-May-25	Room T207	Drywall Joint Compound	X	29
164A-200525-10C	20-May-25	Room T209	Drywall Joint Compound	X	30
164A-200525-10D	20-May-25	Room T212	Drywall Joint Compound	X	31
164A-200525-10E	20-May-25	Room T213	Drywall Joint Compound	X	32
164A-200525-10F	20-May-25	Room T290	Drywall Joint Compound	X	33
<b>Relinquished By:</b> Faiq Amir _____ Print Name			 _____ Signature		<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca With CC to: chs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca
<b>Received By:</b> Amy Bradford _____ Print Name			 _____ Signature		
<b>Analyzed By:</b> _____ Print Name			_____ Signature		
_____ Date			21-May-25 Date		
_____ Date			22-May-25 Date		



# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A121433

**Project Name:** CAMH (164A)

**Analysis Method:** Polarized Light Microscopy – EPA 600

**Date Received:** Jun 20/25

**Date Analyzed:** Jun 20/25

**Analyst:** Rahul Patel

**Reviewed By:** Malgorzata Sybydlo

**Project No:** 1793331

**Number of Samples:** 9

**Date Reported:** Jun 20/25



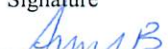

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
164A-170625-1A	A121433-1	Room T505/ drywall joint compound	White, joint compound	ND		100
164A-170625-1B	A121433-2 <sup>5</sup>	Room T507/ drywall joint compound	White, joint compound	ND		100
164A-170625-1C	A121433-3	Room T515/ drywall joint compound	White and off white, joint compound	ND		100
164A-170625-1D	A121433-4 <sup>5</sup>	Hallway T590 @ T526/ drywall joint compound	White, joint compound	ND		100
164A-170625-2A	A121433-5	Hallway T492/ drywall joint compound	White, joint compound	ND		100
164A-170625-2B	A121433-6	Room T418/ drywall joint compound	White, joint compound	ND		100
164A-170625-2C	A121433-7	Room T421/ drywall joint compound	White, joint compound	ND		100
164A-170625-2D	A121433-8	Room T422/ drywall joint compound	White, plaster	ND		100
164A-170625-2E	A121433-9	Room T425/ drywall joint compound	White, joint compound	ND		100

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. This sample is small in size.



A121433

 <b>UNIVERSITY OF TORONTO</b>			REQUEST FOR ANALYSIS		
<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607			<b>Shipped From:</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		<b>PLM Bulk</b> xx <b>TEM Bulk</b> <b>Bulk Mould</b> <b>PCM Air</b> <b>Other</b>
<b>Samples Collected By:</b> Faiq Amir		<b>Project, S.O. #:</b> 1793331			
		<b>Building Name:</b> CAMH (164A)			
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-170625-1A	17-Jun-25	Room T505	Drywall Joint Compound		X
164A-170625-1B	17-Jun-25	Room T507	Drywall Joint Compound		X
164A-170625-1C	17-Jun-25	Room T515	Drywall Joint Compound		X
164A-170625-1D	17-Jun-25	Hallway T590 @ T526	Drywall Joint Compound		X
164A-170625-2A	17-Jun-25	Hallway T492	Drywall Joint Compound		X
164A-170625-2B	17-Jun-25	Room T418	Drywall Joint Compound		X
164A-170625-2C	17-Jun-25	Room T421	Drywall Joint Compound		X
164A-170625-2D	17-Jun-25	Room T422	Drywall Joint Compound		X
164A-170625-2E	17-Jun-25	Room T425	Drywall Joint Compound		X
<b>Relinquished By:</b> Faiq Amir Print Name			 Signature		17-Jun-25 Date
<b>Received By:</b> Amy Bradford Print Name			 Signature		19 June '25 Date
<b>Analyzed By:</b> Print Name			 Signature		JUN 29/25 850 Date
<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca With CC to: ehs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca					

# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A128230

**Project Name:** 481 Spadina Ave (164A)

**Analysis Method:** Polarized Light Microscopy – EPA 600

**Date Received:** Dec 8/25

**Date Analyzed:** Dec 8/25

**Analyst:** Chengming Li

**Reviewed By:** Malgorzata Sybydło

**Project No:** 1116691

**Number of Samples:** 3

**Date Reported:** Dec 8/25

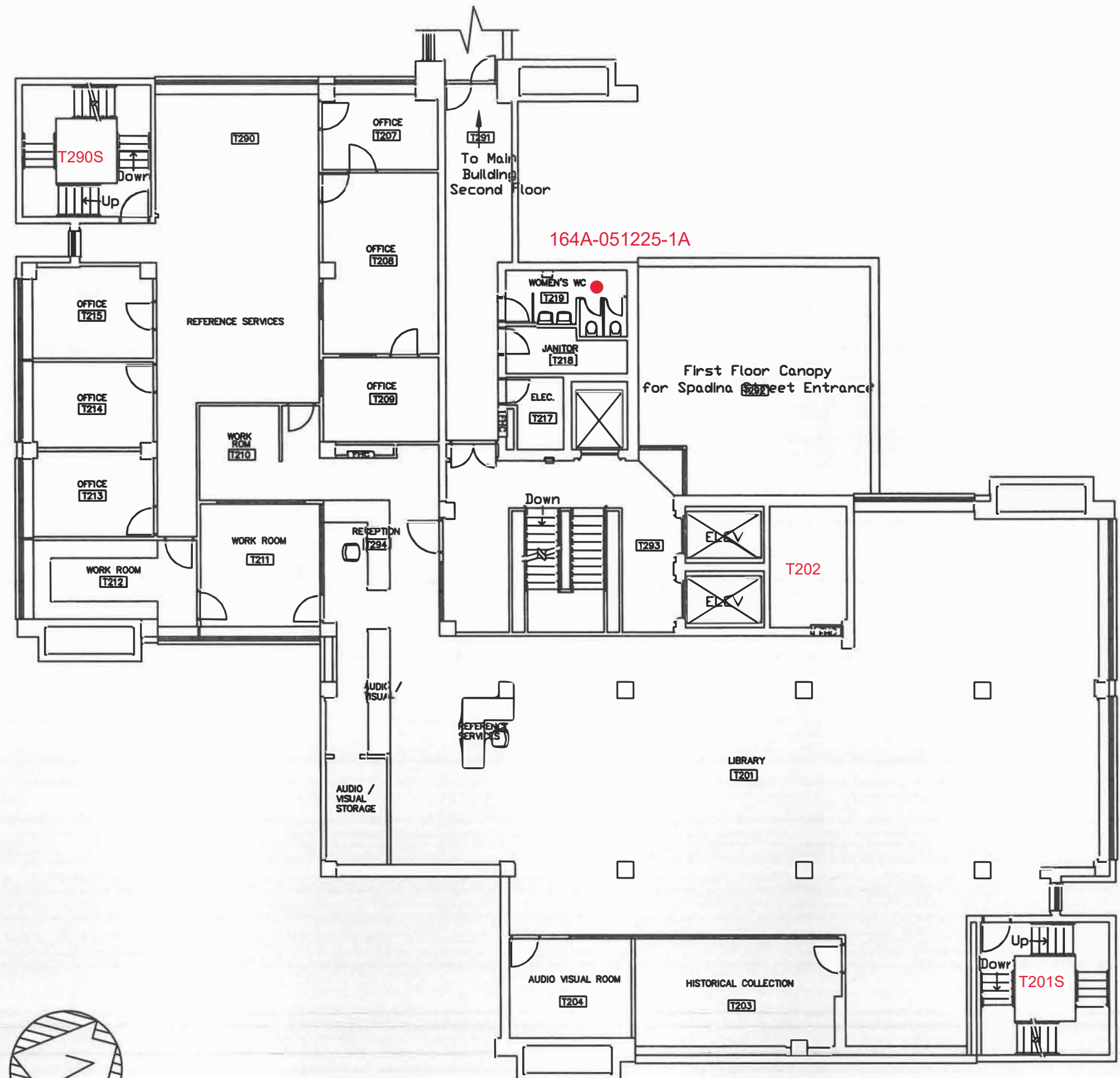
Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
164A-051225-1A	A128230-1	Room T219 (washroom) / epoxy flooring	Red, cementitious material	ND		100
164A-051225-1B	A128230-2	Room T326 (washroom) / epoxy flooring	Blue, cementitious material	ND		100
164A-051225-1C	A128230-3	Room T402 (washroom) / epoxy flooring	Blue, cementitious material	ND		100

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.

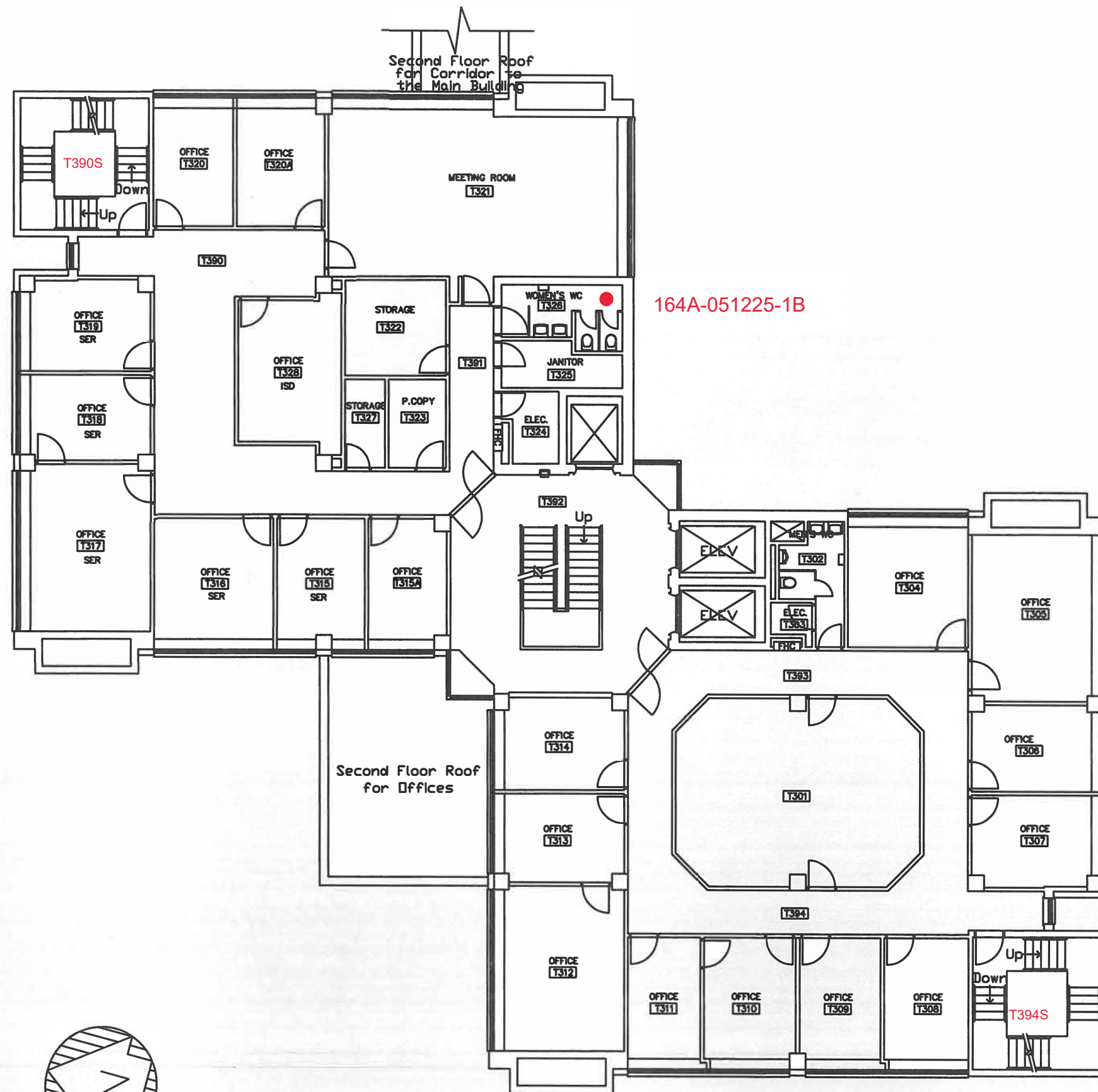






TOWER  
2ND FLOOR PLAN  
RUSSELL STREET SITE





TOWER  
3RD FLOOR PLAN  
RUSSELL STREET SITE



TOWER  
4TH FLOOR PLAN  
RUSSELL STREET SITE



# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A128441

**Project Name:** 481 Spadina Ave (164A)

**Analysis Method:** Polarized Light Microscopy – EPA 600

**Date Received:** Dec 12/25

**Date Analyzed:** Dec 19/25

**Analyst:** Arth Parikh

**Reviewed By:** Malgorzata Sybydlo

**Project No:** 1232701

**Number of Samples:** 30

**Date Reported:** Dec 19/25

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-091225-1A	A128441-1	Room T212/Sink Caulking	Colourless, caulking	ND			100
164A-091225-1B	A128441-2	Room T212/Sink Caulking	Colourless, caulking	ND			100
164A-091225-1C	A128441-3	Room T212/Sink Caulking	Colourless, caulking	ND			100
164A-091225-2A	A128441-4	Room T207/Baseboard Adhesive	Brown, mastic	ND			100
164A-091225-2B	A128441-5	Room T212/Baseboard Adhesive	2 Phases:				
			a) Brown, mastic	ND			100
			b) Yellow, mastic	ND			100
164A-091225-2C	A128441-6	Room T215/Baseboard Adhesive	2 Phases:				
			a) Brown, mastic	ND			100
			b) Yellow, mastic	ND			100
164A-091225-3A	A128441-7	Room T207/T208/Doorframe Caulking	Off white, caulking	ND			100
164A-091225-3B	A128441-8	Room T208/T209/Doorframe Caulking	Off white, caulking	ND			100
164A-091225-3C	A128441-9	Room T208/T209/Doorframe Caulking	Off white, caulking	ND			100
164A-091225-4A	A128441-10	Room T208/T209/Window frame Caulking	Off white, caulking	ND			100
164A-091225-4B	A128441-11	Room T208/T209/Window frame Caulking	Off white, caulking	ND			100



**EMC LAB REPORT NUMBER:** A128441

**Client's Job/Project No.:** 481 Spadina Ave (164A)

**Analyst:** Arth Parikh

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-091225-4C	A128441-12	Room T208/T209/Window frame Caulking	Off white, caulking	ND			100
164A-091225-5A	A128441-13	Room T304/Baseboard Adhesive	4 Phases: a) Yellow, mastic b) Brown, mastic c) White, plaster d) Grey, plaster	ND ND ND ND			100 100 100 100
164A-091225-5B	A128441-14	Room T310/Baseboard Adhesive	3 Phases: a) Brown, mastic b) White, plaster c) Grey, plaster	ND ND ND			100 100 100
164A-091225-5C	A128441-15	Room T316/Baseboard Adhesive	3 Phases: a) Brown, mastic b) White, plaster c) Grey, plaster	ND ND ND			100 100 100
164A-091225-6A	A128441-16	Room T305/Doorframe Caulking	White, caulking	ND			100
164A-091225-6B	A128441-17	Room T305/Doorframe Caulking	White, caulking	ND			100
164A-091225-6C	A128441-18	Room T305/Doorframe Caulking	White, caulking	ND			100
164A-091225-7A	A128441-19	Room T404/Baseboard Adhesive	Brown, mastic	ND			100
164A-091225-7B	A128441-20	Room T412/Baseboard Adhesive	Brown, mastic	ND			100
164A-	A128441-21	Room T415/Baseboard Adhesive	2 Phases:				

**EMC LAB REPORT NUMBER:** A128441

**Client's Job/Project No.:** 481 Spadina Ave (164A)



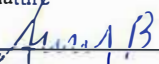
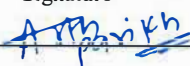
**Analyst:** Arth Parikh

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
091225-7C			a) Brown, mastic b) Off white, joint compound	ND			100
164A-091225-8A	A128441-22	Room T705/Baseboard Adhesive	Yellow, mastic	ND			100
164A-091225-8B	A128441-23	Room T707/Baseboard Adhesive	2 Phases: a) Yellow, mastic b) White, joint compound	ND			100
164A-091225-8C	A128441-24	Room T709/Baseboard Adhesive	Yellow, mastic	ND			100
164A-091225-9A	A128441-25	Room T796/Countertop Caulking	White, caulking	ND			100
164A-091225-9B	A128441-26	Room T796/Countertop Caulking	White, caulking	ND			100
164A-091225-9C	A128441-27	Room T796A/Countertop Caulking	White, caulking	ND			100
164A-091225-10A	A128441-28	Room T305 (Partition wall)/Drywall Joint Compound	White, joint compound	ND			100
164A-091225-10B	A128441-29	Room T305 (Partition wall)/Drywall Joint Compound	White, joint compound	ND			100
164A-091225-10C	A128441-30	Room T305 (Partition wall)/Drywall Joint Compound	White, joint compound	ND			100

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.

A/28441


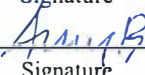
 <b>UNIVERSITY OF TORONTO</b>			<b>REQUEST FOR ANALYSIS</b>		
<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607			<b>Shipped From:</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		<b>PLM Bulk</b> xx <b>TEM Bulk</b> <b>Bulk Mould</b> <b>PCM Air</b> <b>Other</b>
<b>Samples Collected By:</b> Faiq Amir		<b>Project, S.O. #:</b> 1232701			
		<b>Building Name:</b> 481 Spadina Ave (164A)			
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-091225-1A	09-Dec-25	Room T212	Sink Caulking	X	
164A-091225-1B	09-Dec-25	Room T212	Sink Caulking	X	
164A-091225-1C	09-Dec-25	Room T212	Sink Caulking	X	
164A-091225-2A	09-Dec-25	Room T207	Baseboard Adhesive	X	
164A-091225-2B	09-Dec-25	Room T212	Baseboard Adhesive	X	
164A-091225-2C	09-Dec-25	Room T215	Baseboard Adhesive	X	
164A-091225-3A	09-Dec-25	Room T207/T208	Doorframe Caulking	X	
164A-091225-3B	09-Dec-25	Room T208/T209	Doorframe Caulking	X	
164A-091225-3C	09-Dec-25	Room T208/T209	Doorframe Caulking	X	
164A-091225-4A	09-Dec-25	Room T208/T209	Windowframe Caulking	X	
164A-091225-4B	09-Dec-25	Room T208/T209	Windowframe Caulking	X	
164A-091225-4C	09-Dec-25	Room T208/T209	Windowframe Caulking	X	
164A-091225-5A	09-Dec-25	Room T304	Baseboard Adhesive	X	
164A-091225-5B	09-Dec-25	Room T310	Baseboard Adhesive	X	
164A-091225-5C	09-Dec-25	Room T316	Baseboard Adhesive	X	
<b>Relinquished By:</b> Faiq Amir					09-Dec-25
<b>Received By:</b> Amy Bradford					Dec 11 '25
<b>Analyzed By:</b> Armin Sheikh					Dec 19 '25
Comments: Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shek@utoronto.ca With CC to: ehs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca a.greco@utoronto.ca					

30



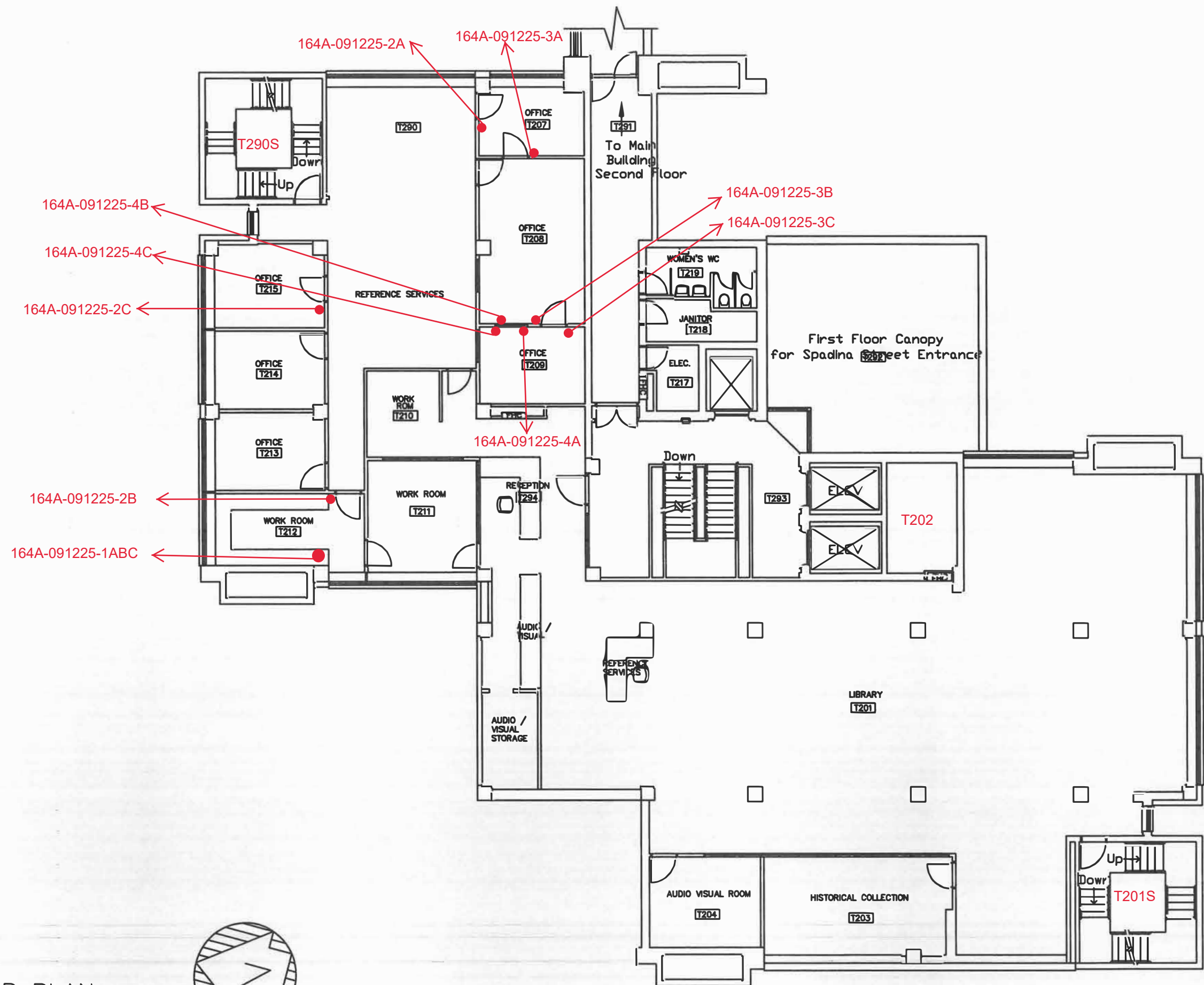
<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		<b>Shipped From:</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		<b>PLM Bulk</b> xx <b>TEM Bulk</b> <b>Bulk Mould</b> <b>PCM Air</b> <b>Other</b>	
<b>Samples Collected By:</b> Faiq Amir		<b>Project, S.O. #:</b> 1232701			
		<b>Building Name:</b> 481 Spadina Ave (164A)			

Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-091225-6A	09-Dec-25	Room T305	Doorframe Caulking	X	
164A-091225-6B	09-Dec-25	Room T305	Doorframe Caulking	X	
164A-091225-6C	09-Dec-25	Room T305	Doorframe Caulking	X	
164A-091225-7A	09-Dec-25	Room T404	Baseboard Adhesive	X	
164A-091225-7B	09-Dec-25	Room T412	Baseboard Adhesive	X	
164A-091225-7C	09-Dec-25	Room T415	Baseboard Adhesive	X	
164A-091225-8A	09-Dec-25	Room T705	Baseboard Adhesive	X	
164A-091225-8B	09-Dec-25	Room T707	Baseboard Adhesive	X	
164A-091225-8C	09-Dec-25	Room T709	Baseboard Adhesive	X	
164A-091225-9A	09-Dec-25	Room T796	Countertop Caulking	X	
164A-091225-9B	09-Dec-25	Room T796	Countertop Caulking	X	
164A-091225-9C	09-Dec-25	Room T796A	Countertop Caulking	X	
164A-091225-10A	09-Dec-25	Room T305 (Partition wall)	Drywall Joint Compound	X	
164A-091225-10B	09-Dec-25	Room T305 (Partition wall)	Drywall Joint Compound	X	
164A-091225-10C	09-Dec-25	Room T305 (Partition wall)	Drywall Joint Compound	X	

<b>Relinquished By:</b> Faiq Amir Print Name			 Signature			09-Dec-25 Date		
<b>Received By:</b> Amy Bradford Print Name			 Signature			Dec 11 '25 Date		
<b>Analyzed By:</b> Print Name			Signature			Date		

**Comments:** Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shck@utoronto.ca  
 With CC to:  
 chs.office@utoronto.ca  
 irfan.miraj@utoronto.ca  
 doug.colby@utoronto.ca  
 faiq.amir@utoronto.ca  
 a.greco@utoronto.ca

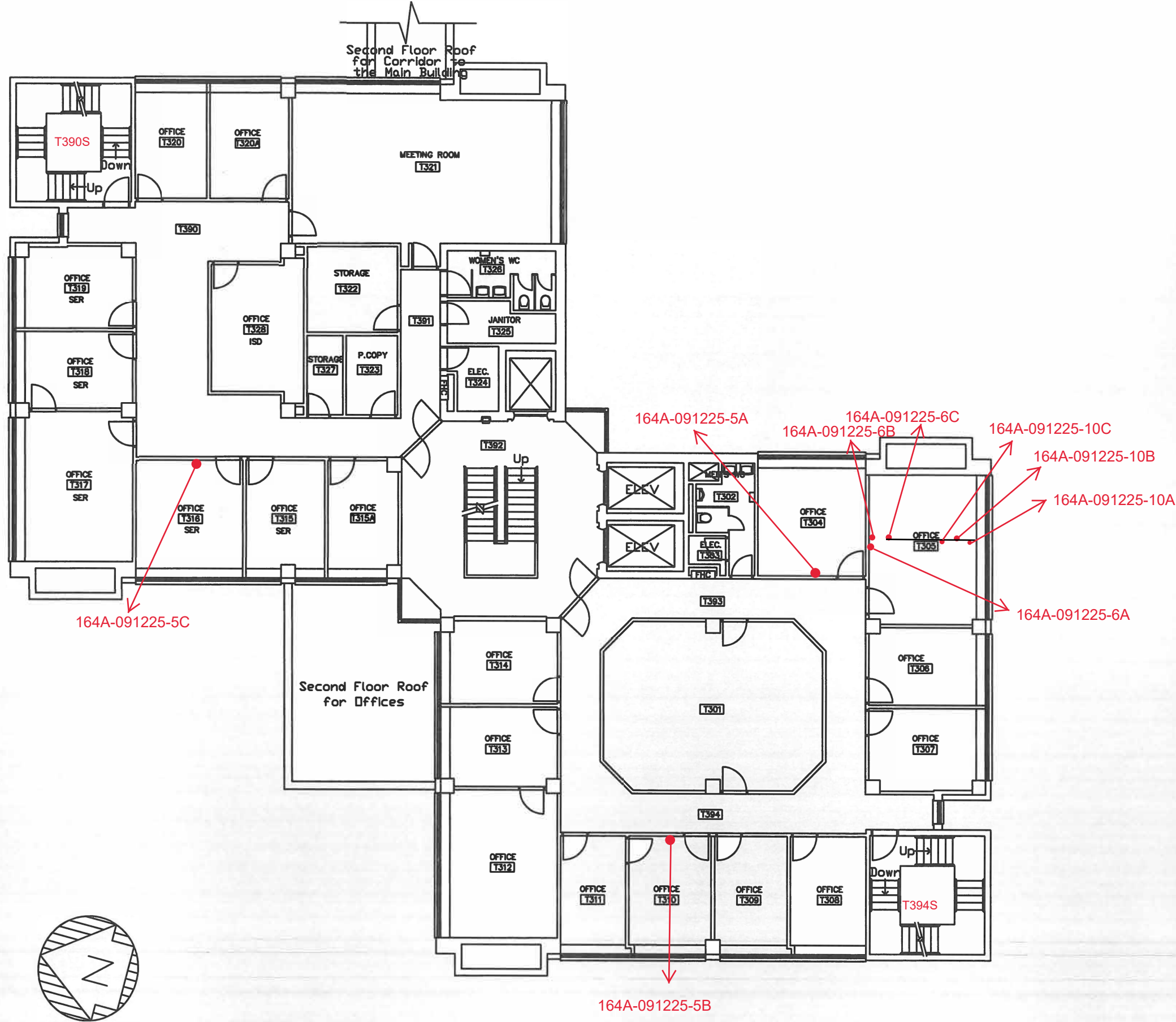




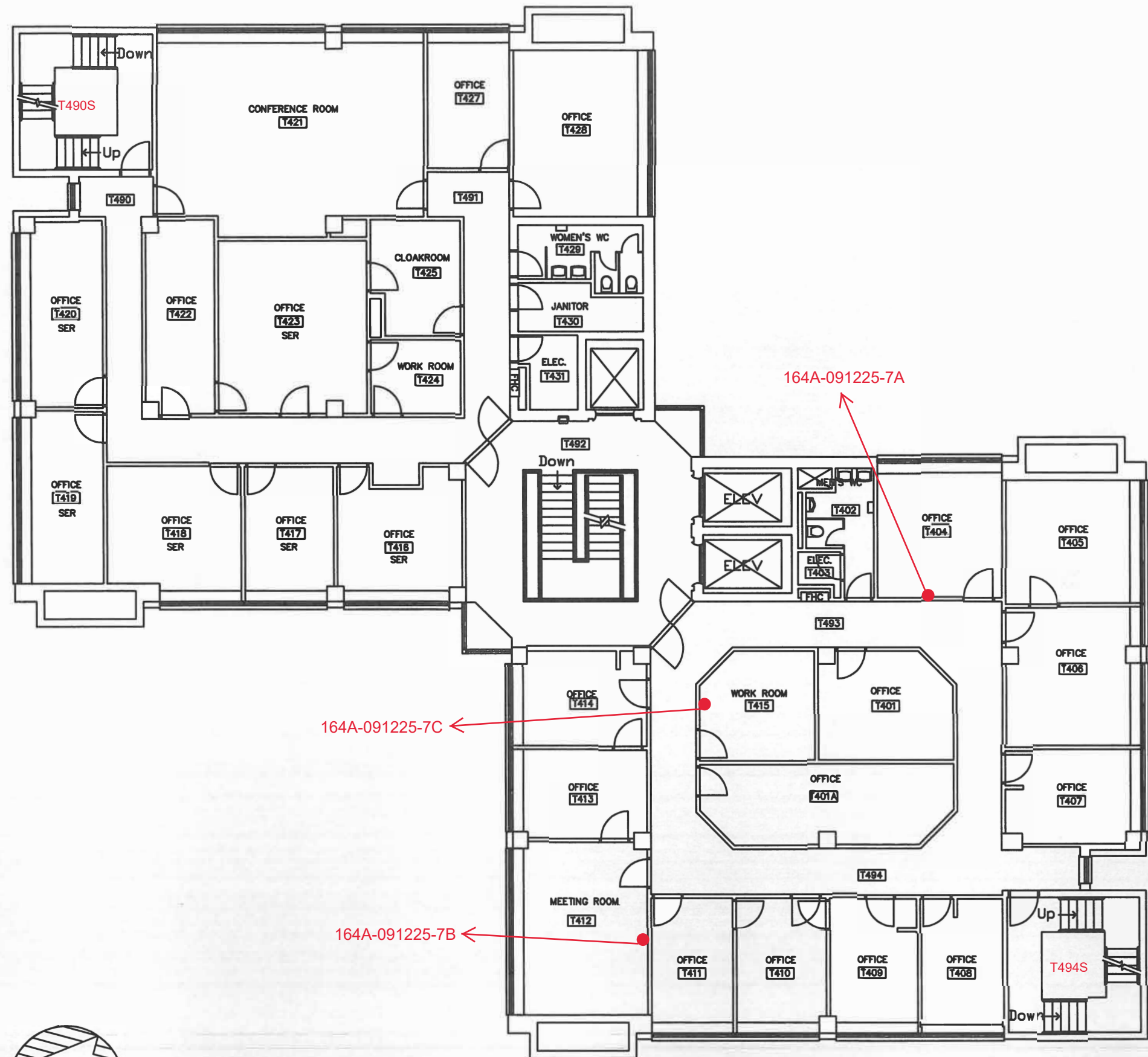
TOWER  
2ND FLOOR PLAN  
RUSSELL STREET SITE



TOWER  
3RD FLOOR PLAN  
RUSSELL STREET SITE



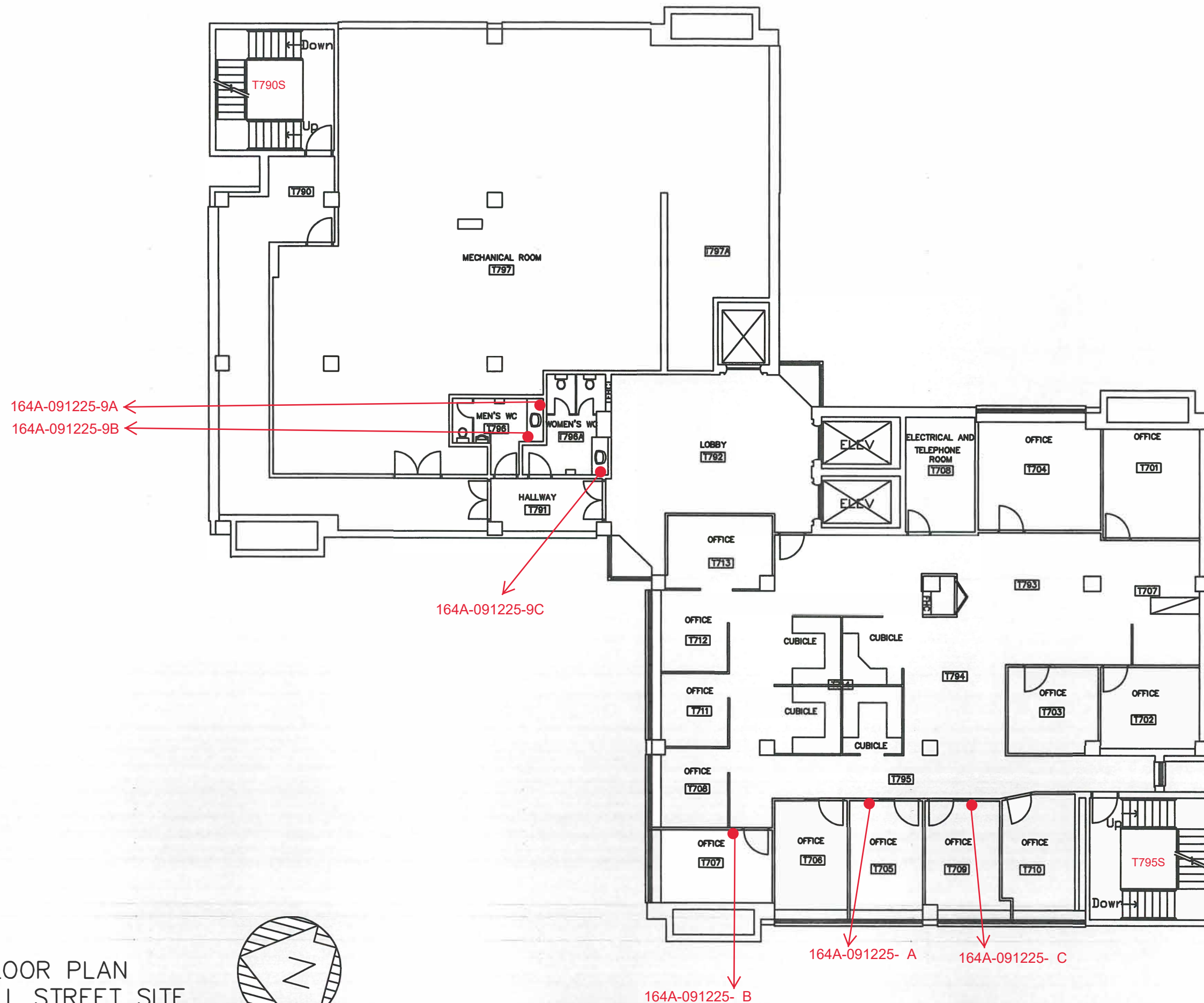
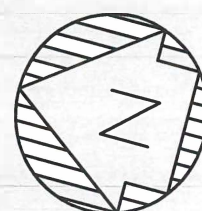




TOWER  
4TH FLOOR PLAN  
RUSSELL STREET SITE



TOWER  
7TH FLOOR PLAN  
RUSSELL STREET SITE



33 Russell St.  
Tower Bldg

L7

# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A128472

**Project Name:** 481 Spadina Ave (164A)

**Analysis Method:** Polarized Light Microscopy – EPA 600

**Date Received:** Dec 15/25

**Date Analyzed:** Dec 15/25

**Analyst:** Arth Parikh

**Reviewed By:** Malgorzata Sybydlo

**Project No:** 1232701

**Number of Samples:** 3

**Date Reported:** Dec 15/25

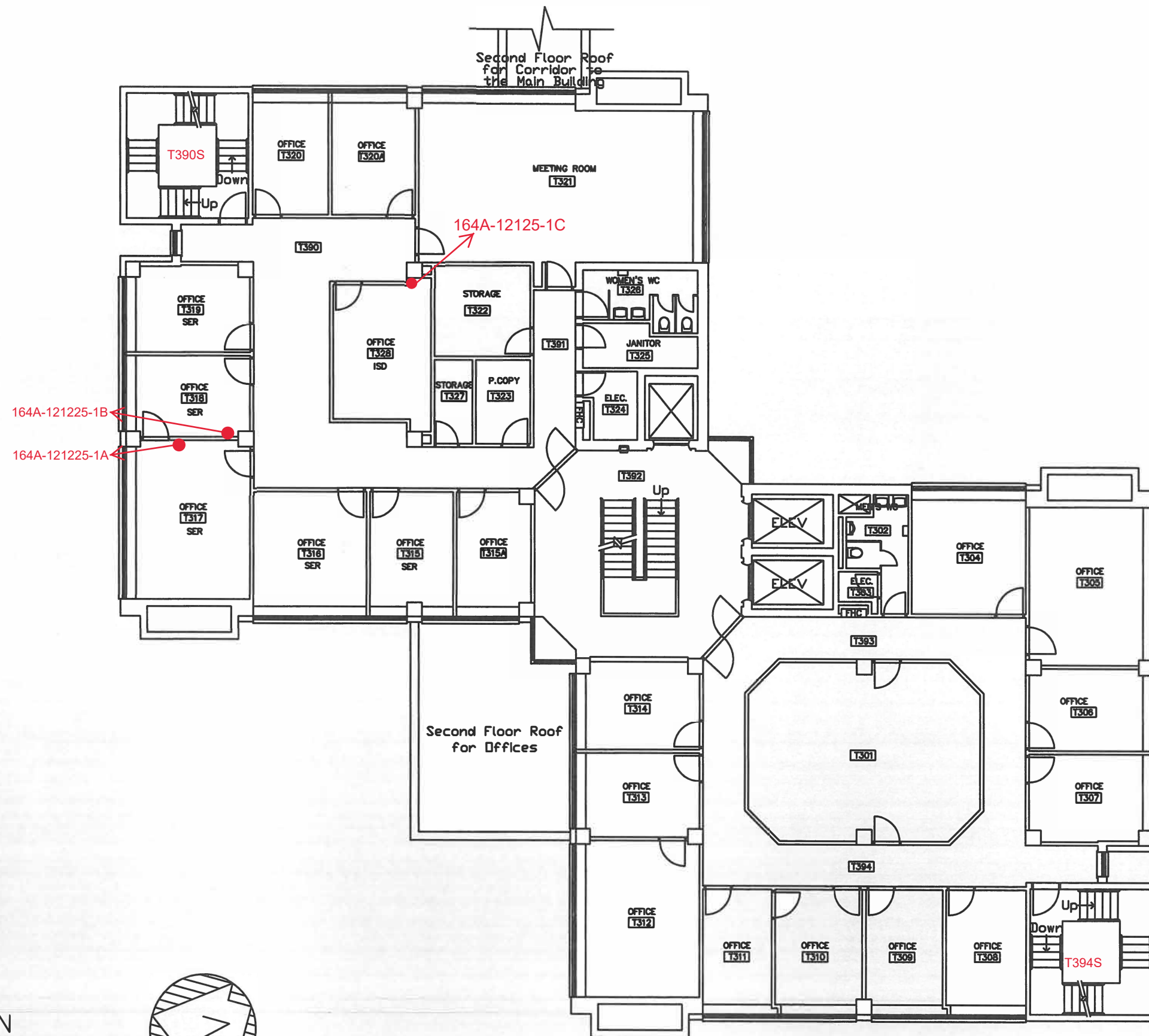
Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
164A-121225-1A	A128472-1 <sup>5</sup>	Room T317/ drywall joint compound	White, joint compound	ND		100
164A-121225-1B	A128472-2	Room T318/ drywall joint compound	White, joint compound	ND		100
164A-121225-1C	A128472-3	Room T328/ drywall joint compound	Beige, joint compound	Chrysotile	1	99

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. This sample is small in size.







TOWER  
3RD FLOOR PLAN  
RUSSELL STREET SITE





# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A128710r\*

**Project Name:** 481 Spadina Ave (164A)

**Analysis Method:** Polarized Light Microscopy – EPA 600

**Date Received:** Dec 22/25

**Date Analyzed:** Dec 31/25

**Analyst:** Fabio Anunciacao

**Reviewed By:** Malgorzata Sybydlo

**Project No:** 1116691

**Number of Samples:** 5

**Date Reported:** Dec 31/25

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
164A-191225-1A	A128710-1	Room TB06 – masonry sealant	White, rubbery material	ND		100
164A-191225-1B	A128710-2	Room TB12 – masonry sealant	Off white, primer	Chrysotile	0.5	99.5
164A-191225-1C	A128710-3	Room TB13 – masonry sealant	Off white, primer	Chrysotile	1	99
164A-191225-1D	A128710-4	Room TB15 – masonry sealant	Off white, primer	Chrysotile	0.5	99.5
164A-191225-1E	A128710-5	Hallway TB92 @TB08 – masonry sealant	Off white, primer	Chrysotile	0.5	99.5

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
  2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
  3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
  4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
- \* This report has been revised as requested on Dec 31, 2025.



A128710

x

Intro CM Dec 24/25 8:50



# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A129028

**Project Name:** 481 Spadina Ave (164A)

**Analysis Method:** Polarized Light Microscopy – EPA 600

**Date Received:** Jan 7/26

**Date Analyzed:** Jan 7/26

**Analyst:** Marco Costanza

**Reviewed By:** Malgorzata Sybydlo

**Project No:** 1116691

**Number of Samples:** 42

**Date Reported:** Jan 7/26

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-050126-1A	A129028-1	Room T624-East wall/ Masonry Sealant	White, primer	ND			100
164A-050126-1B	A129028-2	Room T624-South wall/ Masonry Sealant	White, primer	ND			100
164A-050126-1C	A129028-3	Room T624-West wall/ Masonry Sealant	White, primer	ND			100
164A-050126-2A	A129028-4	Room T532-East wall/ Masonry Sealant	White, primer	ND			100
164A-050126-2B	A129028-5	Room T532-South wall/ Masonry Sealant	White, primer	ND			100
164A-050126-2C	A129028-6	Room T532-West wall/ Masonry Sealant	White, primer	ND			100
164A-050126-3A	A129028-7	Room T430-East wall/ Masonry Sealant	White, primer	ND			100
164A-050126-3B	A129028-8	Room T430-South wall/ Masonry Sealant	White, primer	ND			100
164A-050126-3C	A129028-9	Room T430-West wall/ Masonry Sealant	White, primer	ND			100
164A-050126-4A	A129028-10	Room T325-East wall/ Masonry Sealant	White, primer	ND			100
164A-050126-4B	A129028-11	Room T325-East wall/ Masonry Sealant	White, primer	ND			100
164A-050126-4C	A129028-12	Room T325-East wall/ Masonry Sealant	White, primer	ND			100

**EMC LAB REPORT NUMBER:** A129028

**Client's Job/Project No.:** 1116691

**Analyst:** Marco Costanza

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-050126-5A	A129028-13	Room T218-East wall/ Masonry Sealant	White, primer	ND			100
164A-050126-5B	A129028-14	Room T218-South wall/ Masonry Sealant	White, primer	ND			100
164A-050126-5C	A129028-15	Room T218-West wall/ Masonry Sealant	White, primer	ND			100
164A-050126-6A	A129028-16	Room T125-East wall/ Masonry Sealant	White, primer	ND			100
164A-050126-6B	A129028-17	Room T125-South wall/ Masonry Sealant	White, primer	ND			100
164A-050126-6C	A129028-18	Room T125-West wall/ Masonry Sealant	White, primer	ND			100
164A-050126-7A	A129028-19	Room TB02-North wall/ Masonry Sealant	White, primer	ND			100
164A-050126-7B	A129028-20	Room TB02-South wall/ Masonry Sealant	White, primer	ND			100
164A-050126-7C	A129028-21	Room TB03A-West wall/ Masonry Sealant	2 Phases: a) White, primer b) Grey, cementitious material	ND ND			100 100
164A-050126-8A	A129028-22	Room TB03B-North wall/ Masonry Sealant	White, primer	Chrysotile	0.5		99.5
164A-050126-8B	A129028-23	Room TB03B-West wall/ Masonry Sealant	NA	NA			
164A-050126-8C	A129028-24	Room TB03C-West wall/ Masonry Sealant	NA	NA			
164A-	A129028-25	Room TB04-North wall/ Masonry	White, primer	Chrysotile	0.5		99.5



**EMC LAB REPORT NUMBER:** A129028

**Client's Job/Project No.:** 1116691

**Analyst:** Marco Costanza

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
050126-9A		Sealant					
164A-050126-9B	A129028-26	Room TB04-West wall/ Masonry Sealant	NA	NA			
164A-050126-9C	A129028-27	Room TB05-East wall/ Masonry Sealant	NA	NA			
164A-050126-10A	A129028-28	Room TB07-East wall/ Masonry Sealant	2 Phases: a) Off white, primer b) White, rubbery material	ND ND			100 100
164A-050126-10B	A129028-29 <sup>s</sup>	Room TB07-North wall/ Masonry Sealant	Off white, primer	Chrysotile	0.5		99.5
164A-050126-10C	A129028-30	Hallway TB93@ TB11/ Masonry Sealant	NA	NA			
164A-050126-11A	A129028-31	Room TB08-North wall/ Masonry Sealant	White, primer	Chrysotile	0.5		99.5
164A-050126-11B	A129028-32	Room TB09-East wall/ Masonry Sealant	NA	NA			
164A-050126-11C	A129028-33	Room TB09-North wall/ Masonry Sealant	NA	NA			
164A-050126-12A	A129028-34 <sup>s</sup>	Room TB10-North wall/ Masonry Sealant	White, primer	Chrysotile	0.5		99.5
164A-050126-12B	A129028-35	Room TB11-North wall/ Masonry Sealant	NA	NA			
164A-050126-12C	A129028-36	Room TB11-West wall/ Masonry Sealant	NA	NA			
164A-050126-13A	A129028-37 <sup>s</sup>	Room TB14-South wall/ Masonry Sealant	White, primer	Chrysotile	0.5		99.5

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EMC Scientific Inc. is Accredited by NVLAP (NVLAP Code 201020-0) for Bulk Asbestos Analysis

**EMC LAB REPORT NUMBER:** A129028


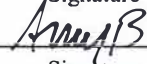

**Client's Job/Project No.:** 1116691

**Analyst:** Marco Costanza

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-050126-13B	A129028-38	Room TB14A-West wall/ Masonry Sealant	NA	NA			
164A-050126-13C	A129028-39	Room TB16A-North wall/ Masonry Sealant	NA	NA			
164A-050126-14A	A129028-40 <sup>5,6</sup>	Room TB20-South wall/ Masonry Sealant	Off white, primer	Chrysotile	0.5		99.5
164A-050126-14B	A129028-41	Room TB21-South wall/ Masonry Sealant	NA	NA			
164A-050126-14C	A129028-42	Room TB22-South wall/ Masonry Sealant	NA	NA			

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. Another phase is present but is too small to analyze.
6. This sample is small in size.

UNIVERSITY OF TORONTO		REQUEST FOR ANALYSIS		
<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5890 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		<b>Shipped From:</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		
<b>Samples Collected By:</b> Faiq Amir		<b>Project, S.O. #:</b> 1116691	<b>PLM Bulk xx</b> <b>TEM Bulk</b> <b>Bulk Mould</b> <b>PCM Air</b> <b>Other</b>	
		<b>Building Name:</b> 481 Spadina Ave (164A)		
Sample Number	Date Sampled	Sample Location	Sample Descr	Analysis Turnaround Time
				Regular 24 Hours
164A-050126-1A	05-Jan-26	Room T624-East wall	Masonry Scalant	X
164A-050126-1B	05-Jan-26	Room T624-South wall	Masonry Scalant	X
164A-050126-1C	05-Jan-26	Room T624-West wall	Masonry Scalant	
164A-050126-2A	05-Jan-26	Room T532-East wall	Masonry Scalant	
164A-050126-2B	05-Jan-26	Room T532-South wall	Masonry Scalant	
164A-050126-2C	05-Jan-26	Room T532-West wall	Masonry Scalant	
164A-050126-3A	05-Jan-26	Room T430-East wall	Masonry Scalant	X
164A-050126-3B	05-Jan-26	Room T430-South wall	Masonry Scalant	X
164A-050126-3C	05-Jan-26	Room T430-West wall	Masonry Scalant	
164A-050126-4A	05-Jan-26	Room T325-East wall	Masonry Scalant	
164A-050126-4B	05-Jan-26	Room T325-East wall	Masonry Scalant	
164A-050126-4C	05-Jan-26	Room T325-East wall	Masonry Scalant	
164A-050126-5A	05-Jan-26	Room T218-East wall	Masonry Scalant	X
164A-050126-5B	05-Jan-26	Room T218-South wall	Masonry Scalant	X
164A-050126-5C	05-Jan-26	Room T218-West wall	Masonry Scalant	X
164A-050126-6A	05-Jan-26	Room T125-East wall	Masonry Scalant	
164A-050126-6B	05-Jan-26	Room T125-South wall	Masonry Scalant	
164A-050126-6C	05-Jan-26	Room T125-West wall	Masonry Scalant	
<b>Relinquished By:</b> Faiq Amir  05-Jan-26				<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shck@utoronto.ca With CC to: chs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca a.greco@utoronto.ca
<b>Received By:</b> Amy Bradford  Jan 6 '26				
<b>Analyzed By:</b> Marco Costanza  Jan 7 '26				
pmo Jan 7/26 PM 8:30				

A129028



UNIVERSITY OF  
TORONTO

# REQUEST FOR ANALYSIS

<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		<b>Shipped From:</b> Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		<b>PLM Bulk xx</b> <b>TEM Bulk</b> <b>Bulk Mould</b> <b>PCM Air</b> <b>Other</b>	
<b>Samples Collected By:</b> Faiq Amir		<b>Project, S.O. #:</b> 1116691			
		<b>Building Name:</b> 481 Spadina Ave (164A)			

Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-050126-7A	05-Jan-26	Room TB02-North wall	Masonry Scalant		X
164A-050126-7B	05-Jan-26	Room TB02-South wall	Masonry Scalant		X
164A-050126-7C	05-Jan-26	Room TB03A-West wall	Masonry Scalant		X
164A-050126-8A	05-Jan-26	Room TB03B-North wall	Masonry Scalant		
164A-050126-8B	05-Jan-26	Room TB03B-West wall	Masonry Scalant		
164A-050126-8C	05-Jan-26	Room TB03C-West wall	Masonry Scalant		
164A-050126-9A	05-Jan-26	Room TB04-North wall	Masonry Scalant		X
164A-050126-9B	05-Jan-26	Room TB04-West wall	Masonry Scalant		X
164A-050126-9C	05-Jan-26	Room TB05-East wall	Masonry Scalant		X
164A-050126-10A	05-Jan-26	Room TB07-East wall	Masonry Scalant		
164A-050126-10B	05-Jan-26	Room TB07-North wall	Masonry Scalant		
164A-050126-10C	05-Jan-26	Hallway TB93@ TB11	Masonry Scalant		
164A-050126-11A	05-Jan-26	Room TB08-North wall	Masonry Scalant		X
164A-050126-11B	05-Jan-26	Room TB09-East wall	Masonry Scalant		X
164A-050126-11C	05-Jan-26	Room TB09-North wall	Masonry Scalant		X
164A-050126-12A	05-Jan-26	Room TB10-North wall	Masonry Scalant		
164A-050126-12B	05-Jan-26	Room TB11-North wall	Masonry Scalant		
164A-050126-12C	05-Jan-26	Room TB11-West wall	Masonry Scalant		

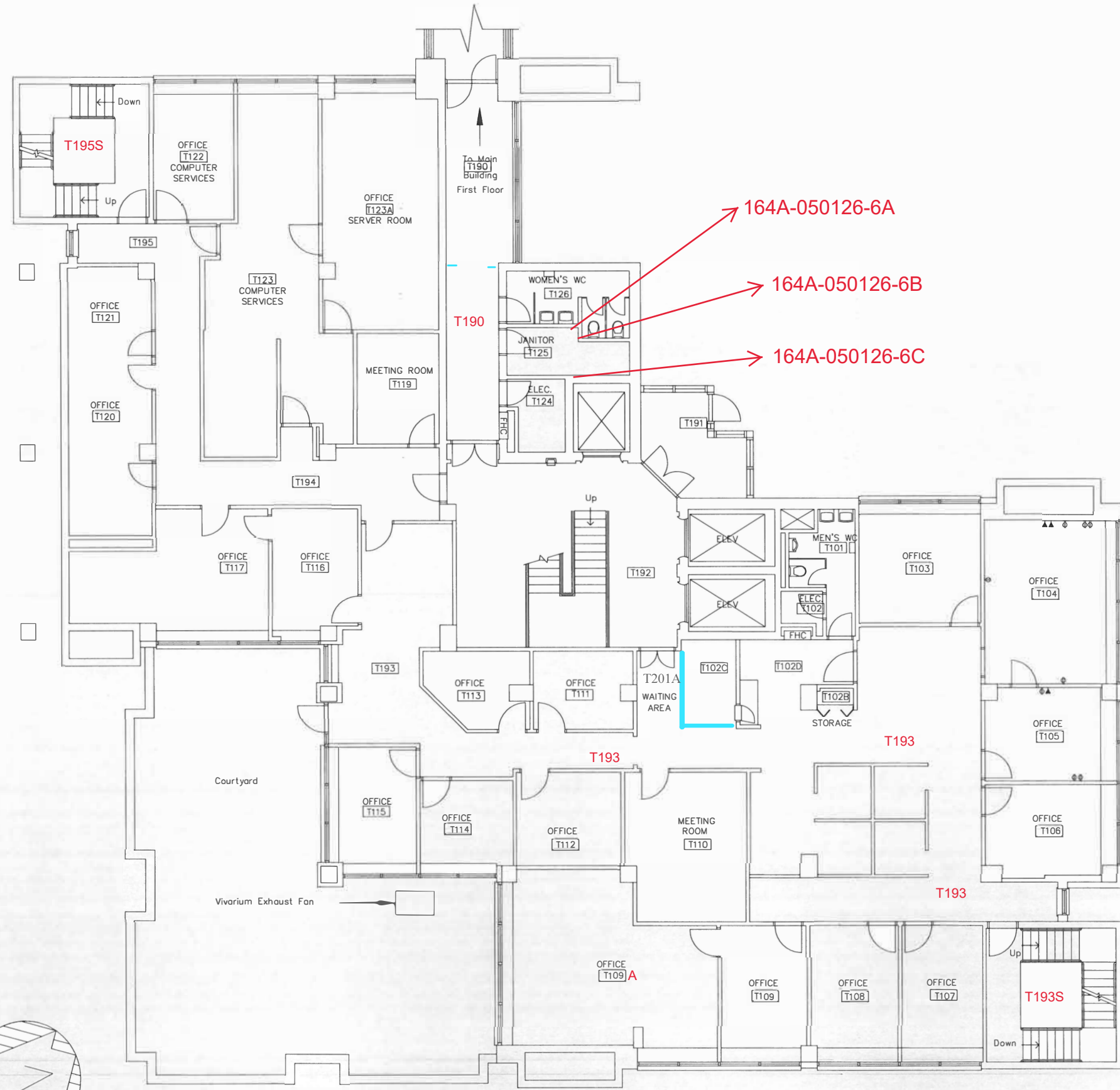
<b>Relinquished By:</b> Faiq Amir Print Name	 Signature	05-Jan-26 Date	<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shck@utoronto.ca With CC to: chs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca a.greco@utoronto.ca
<b>Received By:</b> Amy Bradford Print Name	 Signature	Jan 6 '26 Date	
<b>Analyzed By:</b> [Signature] Print Name	 Signature	Jan 7 '26 Date	



## Page 3 of 3

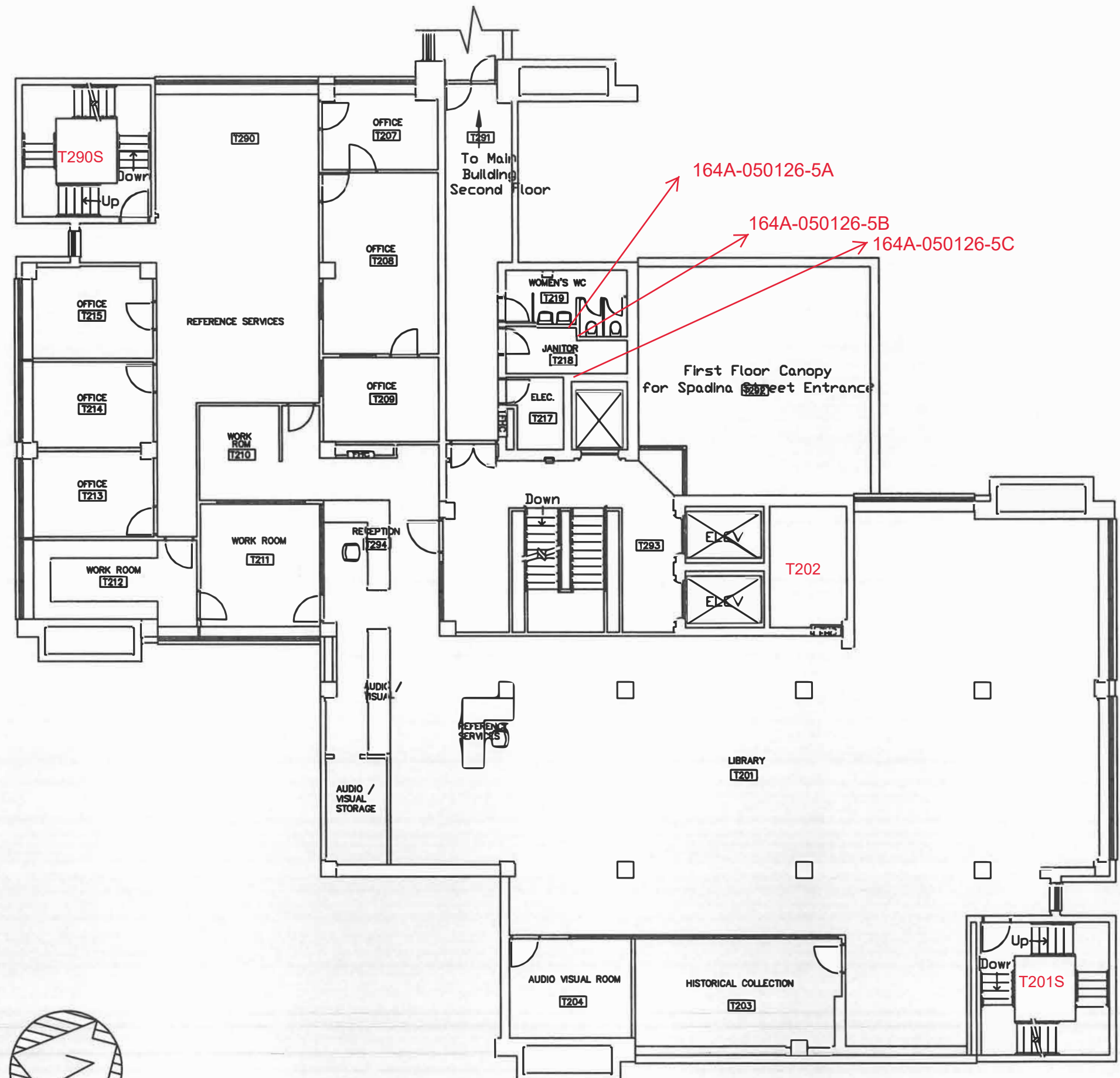






TOWER  
1ST FLOOR PLAN  
RUSSELL STREET SITE



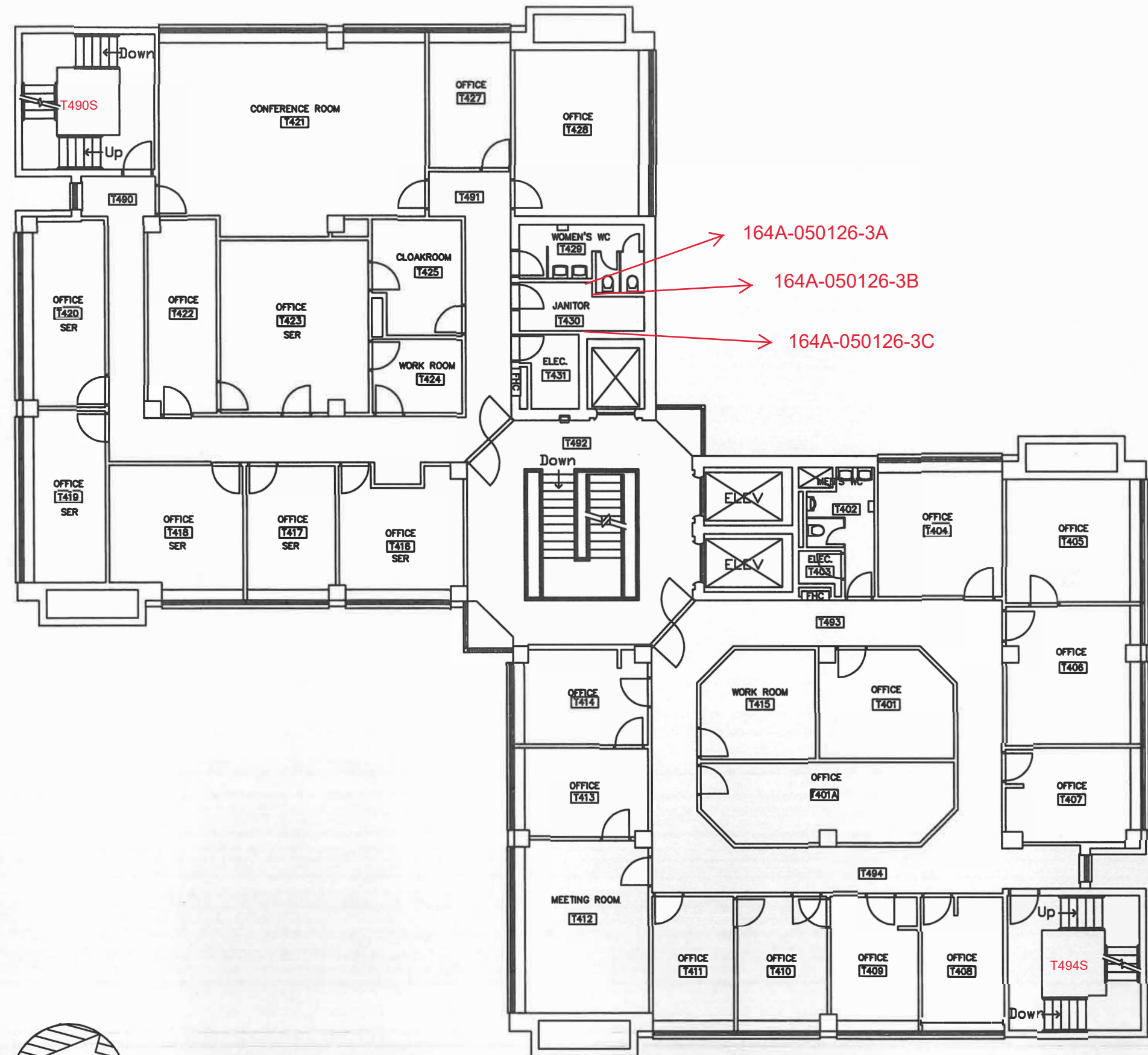


TOWER  
2ND FLOOR PLAN  
RUSSELL STREET SITE





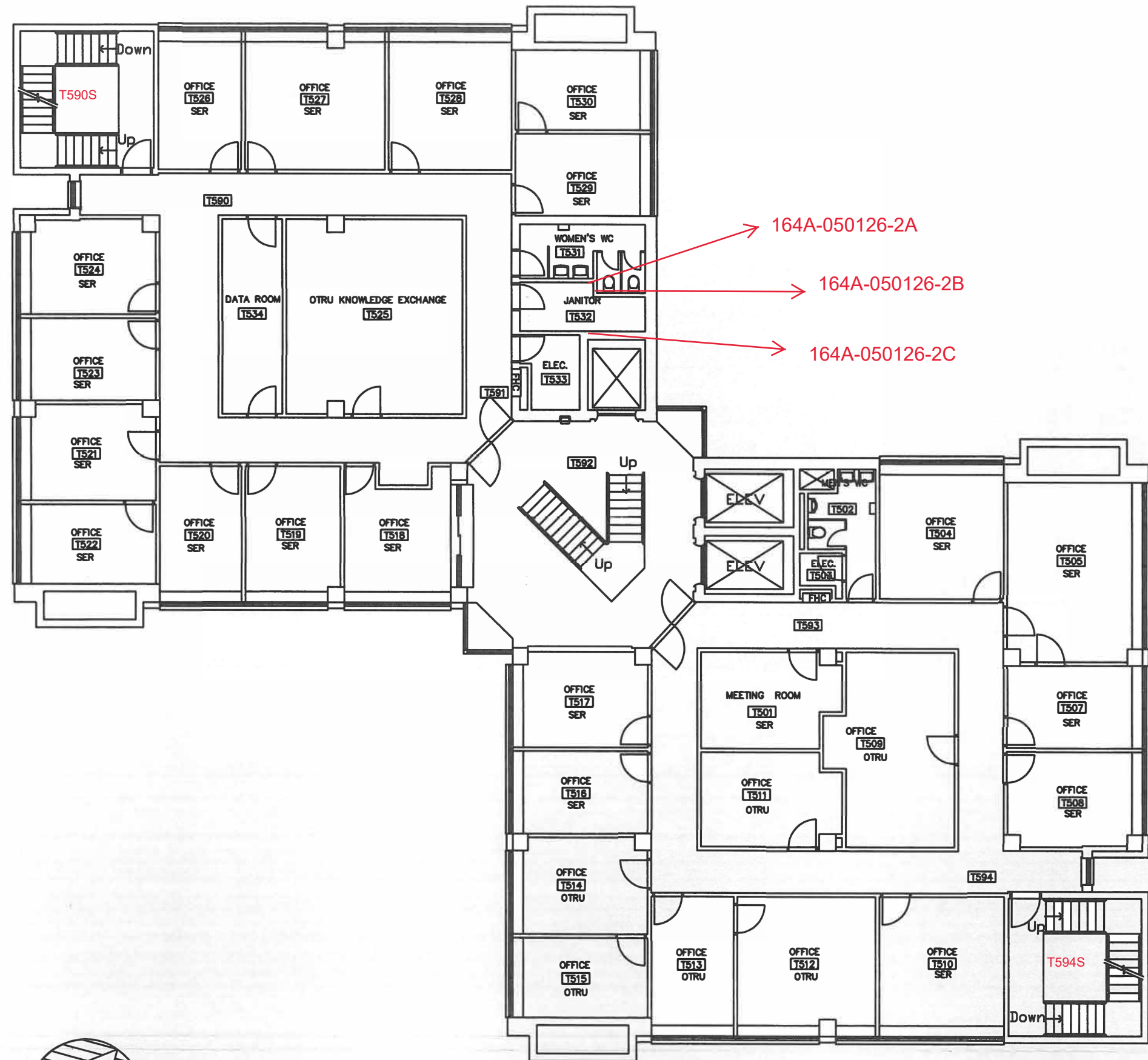




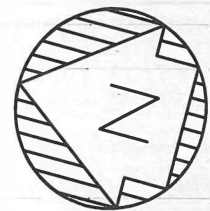
TOWER  
4TH FLOOR PLAN  
RUSSELL STREET SITE





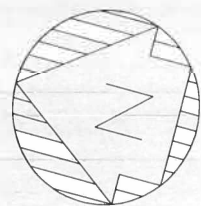


TOWER  
5TH FLOOR PLAN  
RUSSELL STREET SITE





TOWER  
6TH FLOOR PLAN  
RUSSELL STREET SITE



# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A129269

**Project Name:** 481 Spadina Ave (164A)

**Analysis Method:** Polarized Light Microscopy – EPA 600

**Date Received:** Jan 13/26

**Date Analyzed:** Jan 13/26

**Analyst:** Dorothy Cheung

**Reviewed By:** Malgorzata Sybydlo

**Project No:** 1232701

**Number of Samples:** 16

**Date Reported:** Jan 13/26

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-090126-1A	A129269-1	Room T315A-under wall covering/drywall joint compound	Off white, joint compound	Chrysotile	0.5		99.5
164A-090126-1B	A129269-2	Room T320-under wall covering/drywall joint compound	NA	NA			
164A-090126-1C	A129269-3	Room T320A-under wall covering/drywall joint compound	NA	NA			
164A-090126-2A	A129269-4	Hallway T390-opposite T318-under wall covering/drywall joint compound	Off white, joint compound	Chrysotile	1		99
164A-090126-2B	A129269-5	Hallway T390-opposite T318-under wall covering/drywall joint compound	NA	NA			
164A-090126-2C	A129269-6	Hallway T393@ entrance-under wall covering/drywall joint compound	NA	NA			
164A-090126-3A	A129269-7	Hallway T392/drywall joint compound	White, joint compound	ND			100
164A-090126-3B	A129269-8	Hallway T392/drywall joint compound	White, joint compound	ND			100
164A-090126-3C	A129269-9	Hallway T392/drywall joint compound	White, joint compound	ND			100
164A-090126-4A	A129269-10	Room T301-under wall covering/drywall joint compound	White, joint compound	ND			100

**EMC LAB REPORT NUMBER:** A129269

**Client's Job/Project No.:** 1232701

**Analyst:** Dorothy Cheung









Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-090126-4B	A129269-11	Room T301-under wall covering/drywall joint compound	White, joint compound	ND			100
164A-090126-4C	A129269-12	Room T301-under wall covering/drywall joint compound	White, joint compound	ND			100
164A-090126-5A	A129269-13	Room T401A-under wall covering/drywall joint compound	White, joint compound	ND		1	99
164A-090126-5B	A129269-14	Room T416-under wall covering/drywall joint compound	White, joint compound	ND		1	99
164A-090126-5C	A129269-15	Room T423-under wall covering/drywall joint compound	White, joint compound	ND		1	99
164A-090126-5D	A129269-16	Room T427-under wall covering/drywall joint compound	White, joint compound	ND		1	99

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.

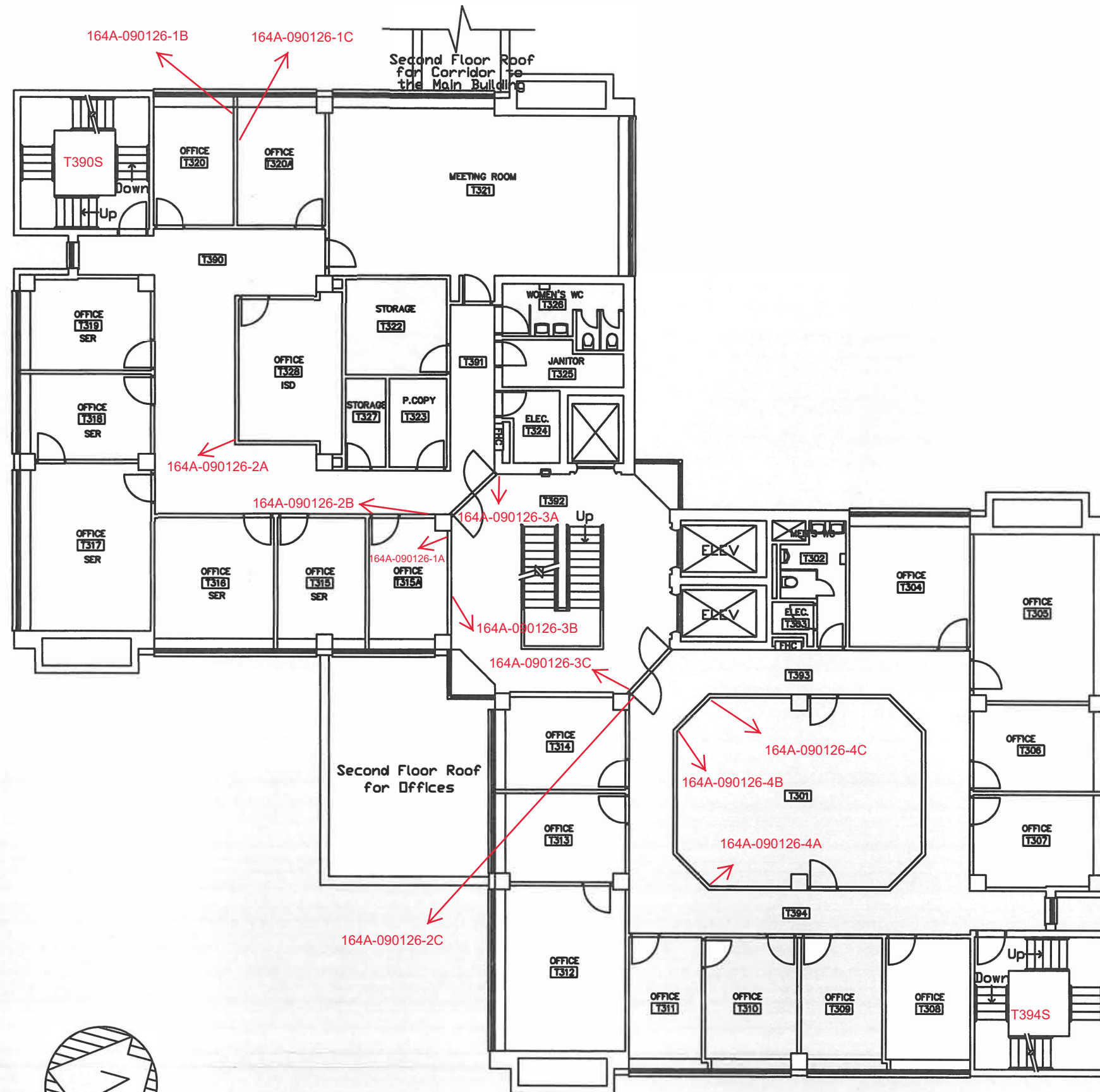


A129269

UNIVERSITY OF TORONTO		REQUEST FOR ANALYSIS			
Ship To: EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		Shipped From: Environmental Health & Safety, 7th Floor 215 Huron Street Toronto, Ontario M5S 1A1		PLM Bulk <input checked="" type="checkbox"/> TEM Bulk <input type="checkbox"/> Bulk Mould <input type="checkbox"/> PCM Air <input type="checkbox"/> Other <input type="checkbox"/>	
Samples Collected By: Faiq Amir		Project, S.O. #: 1232701			
		Building Name: 481 Spadina Ave (164A)			
Sample Number	Date Sampled	Sample Location	Sample Description	Analysis Turnaround Time	
				Regular	24 Hours
164A-090126-1A	09-Jan-26	Room T315A-Under wall covering	Drywall Joint Compound		X
164A-090126-1B	09-Jan-26	Room T320-Under wall covering	Drywall Joint Compound		X
164A-090126-1C	09-Jan-26	Room T320A-Under wall covering	Drywall Joint Compound		X
164A-090126-2A	09-Jan-26	Hallway T390-Opposit T318-Under wall covering	Drywall Joint Compound		X
164A-090126-2B	09-Jan-26	Hallway T391@T315A-Under wall covering	Drywall Joint Compound		X
164A-090126-2C	09-Jan-26	Hallway T393@entrance-Under wall covering	Drywall Joint Compound		X
164A-090126-3A	09-Jan-26	Hallway T392	Drywall Joint Compound		X
164A-090126-3B	09-Jan-26	Hallway T392	Drywall Joint Compound		X
164A-090126-3C	09-Jan-26	Hallway T392	Drywall Joint Compound		X
164A-090126-4A	09-Jan-26	Room T301- Under wall covering	Drywall Joint Compound		X
164A-090126-4B	09-Jan-26	Room T301- Under wall covering	Drywall Joint Compound		X
164A-090126-4C	09-Jan-26	Room T301- Under wall covering	Drywall Joint Compound		X
164A-090126-5A	09-Jan-26	Room T401A- Under wall covering	Drywall Joint Compound		X
164A-090126-5B	09-Jan-26	Room T416- Under wall covering	Drywall Joint Compound		X
164A-090126-5C	09-Jan-26	Room T423- Under wall covering	Drywall Joint Compound		X
164A-090126-5D	09-Jan-26	Room T427- Under wall covering	Drywall Joint Compound		X
Relinquished By: Faiq Amir Print Name				Signature:  Date: 09-Jan-26	
Received By: Ronald Ng Print Name				Signature:  Date: Jan 12, 2026	
Analyzed By: Dorothy Luey Print Name				Signature:  Date: Jan 13, 2026	
				Comments: Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shen@utoronto.ca With CC to: chs.office@utoronto.ca, irfan.miraj@utoronto.ca, doug.colby@utoronto.ca, faiq.amir@utoronto.ca, a.greco@utoronto.ca	

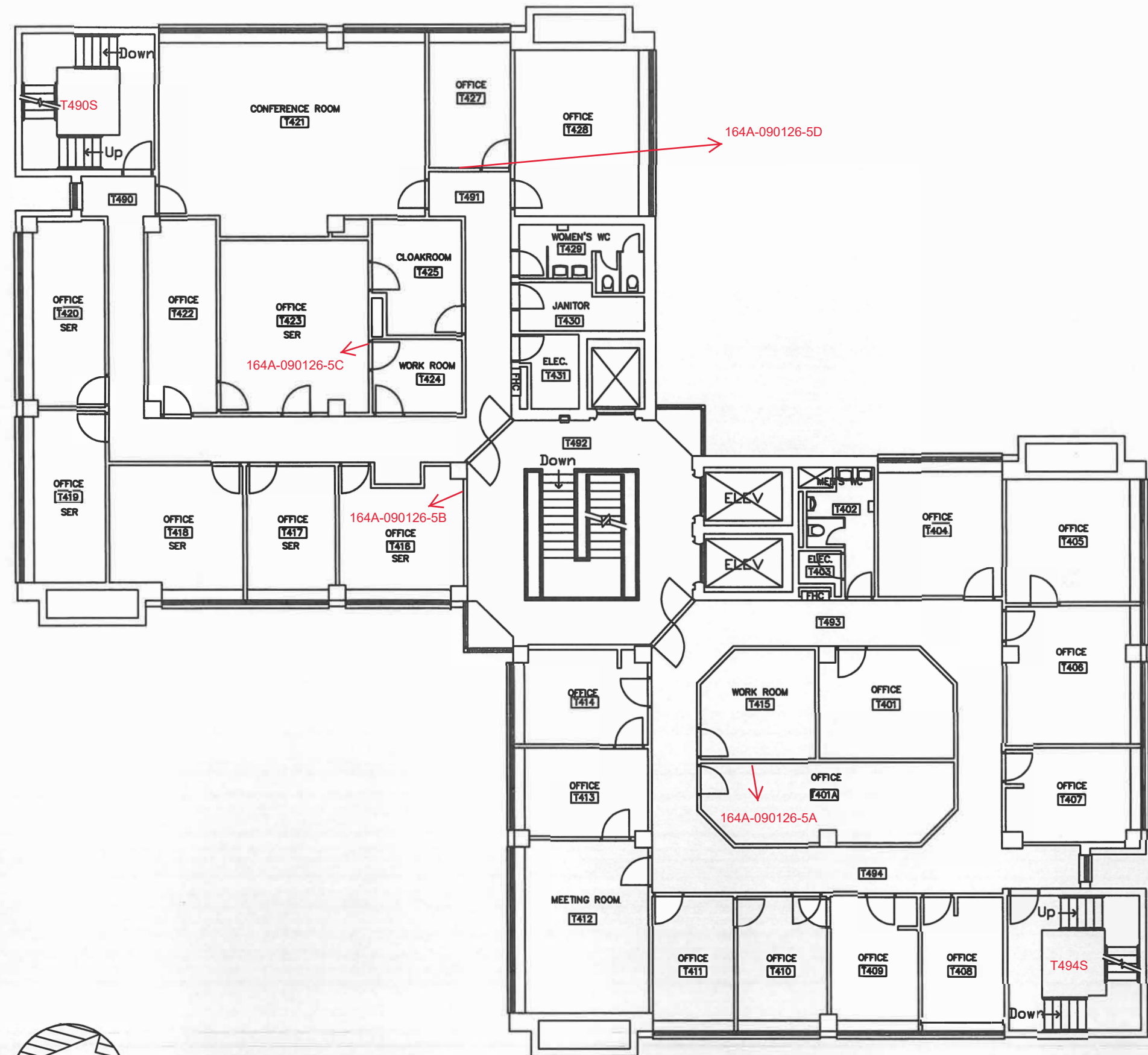
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TOWER  
3RD FLOOR PLAN  
RUSSELL STREET SITE





TOWER  
4TH FLOOR PLAN  
RUSSELL STREET SITE



# Laboratory Analysis Report

To:

**Faiq Amir**  
University of Toronto  
Environmental Health & Safety  
215 Huron Street, 7<sup>th</sup> Floor  
Toronto, Ontario  
M5S 1A1

**EMC LAB REPORT NUMBER:** A129268  
**Project Name:** 481 Spadina Ave (164A)  
**Analysis Method:** Polarized Light Microscopy – EPA 600  
**Date Received:** Jan 13/26 **Date Analyzed:** Jan 13/26  
**Analyst:** Jayoda Perera  
**Reviewed By:** Malgorzata Sybydlo

**Project No:** 1116691  
**Number of Samples:** 3  
**Date Reported:** Jan 13/26

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
164A-120126-1A	A129268-1	Room TB02-concrete wall / masonry sealant	Off white, primer	ND			100
164A-120126-1B	A129268-2	Room TB06-concrete wall / masonry sealant	2 Phases: a) Off white, primer b) Off white, cementitious material	ND ND			100 100
164A-120126-1C	A129268-3	Room TB13-concrete wall / masonry sealant	Off white, primer	Chrysotile	0.5		99.5

**Note:**

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.



## REQUEST FOR ANALYSIS

<b>Ship To:</b> EMC Scientific Inc. Sample Reception 5800 Ambler Drive, Suite 100, Mississauga, ON L4W4J4 Ph: 905.629.9247 Fax: 905.629.2607		<b>Shipped From:</b>		<b>PLM Bulk</b> xx	
		Environmental Health & Safety, 7th Floor		<b>TEM Bulk</b>	
		215 Huron Street Toronto, Ontario M5S 1A1		<b>Bulk Mould</b>	
		<b>Project, S.O. #:</b>	<b>1116691</b>	<b>PCM Air</b>	
<b>Samples Collected By:</b>	Faiq Amir	<b>Building Name:</b>	481 Spadina Ave (164A)	<b>Other</b>	

[illegible]

Relinquished By:	<u>Faiq Amir</u>	<u>[Signature]</u>	<u>12-Jan-26</u>	<b>Comments:</b> Stop further analysis for each alpha numerical set once asbestos is identified by PLM method. e-mail results to: yangting.shck@utoronto.ca With CC to: chs.office@utoronto.ca irfan.miraj@utoronto.ca doug.colby@utoronto.ca faiq.amir@utoronto.ca a.greco@utoronto.ca
	Print Name	Signature	Date	
Received By:	<u>Ronald Ng</u>	<u>[Signature]</u>	<u>Jan 12, 2026</u>	
	Print Name	Signature	Date	
Analyzed By:	<u>Jayoda Perera</u>	<u>[Signature]</u>	<u>Jan 13, 2026</u>	
	Print Name	Signature	Date	

*Done 1st Jan 13/26 9:50*



## **APPENDIX B**

**University of Toronto Standard Operating Procedure ID 2.04 and R2.05**





Office of Environmental Health and Safety  
UNIVERSITY OF TORONTO

Standard Operating Procedures  
for the Control of Asbestos Fibres  
During Type 2 Operations

ID R2.04

**DRILLING ASBESTOS CONTAINING MATERIALS (E.g. plaster, mastics, textured boards, stucco, etc. ) WITH A  
HEPA FILTERED POWER TOOL**

The exposure of workers and the corresponding measures and procedures for the drilling of holes in friable asbestos-containing material are classified as Type 2.

When authorized workers conduct Type 2 activities involving the clean-up of friable asbestos-containing material, specific precautions are required in order to maintain a safe work environment for the workers and other building occupants.

The procedures follow the methods in Ontario Ministry of Labour, Regulations Respecting Asbestos on Construction Projects and in Buildings and Repair Operations (Ontario Reg. 278/05) and the transport and delivery of asbestos waste in accordance with Regulation 347 under the Environmental Protection Act.

**1.0 APPLICATION**

- 1.1 These procedures apply to the drilling of holes (each less than ½ inch in diameter) in the asbestos-containing plaster application for the sole purpose of attaching fasteners for wall hangings and the like. This activity may generate enough airborne asbestos to require protective equipment, but is of short duration.

**2.0 DEFINITIONS**

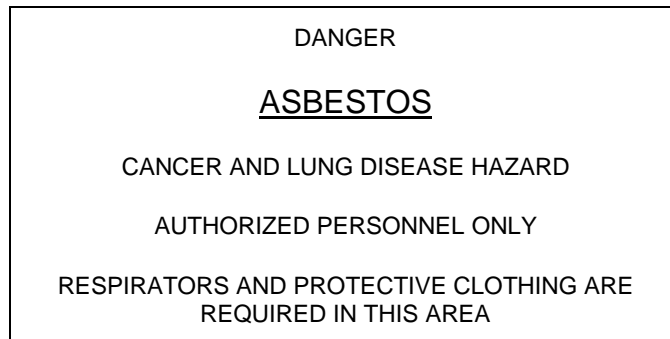
- 2.1 *Work Areas:* Where actual work activity involving friable asbestos takes place.
- 2.2 *Damp Wiping:* A cleaning process for removing residual asbestos contamination using damp-cloths, sponges or mops.

**3.0 MATERIALS AND EQUIPMENT**

- 3.1 *HEPA Vacuum:* Vacuum cleaner equipped with High Efficiency Particulate Arresting HEPA Filter, fitted with appropriate tools. The vacuum equipment shall have a filtering system capable of collecting and retaining fibres greater than 0.3 microns in diameter at 99.97% efficiency.
- 3.2 *HEPA Filtered Tool:* A tool that has been manufactured specifically for the intended purpose and equipped with a filtering system that meets the same definition for filter efficiency as in Item 3.1.
- 3.3 *Dropsheet:* Rip-proof polyethylene plastic or other suitable material that is impervious to asbestos.
- 3.4 *Amended Water:* A mixture of water and a non-ionic, non-sudsing surfactant added to reduce water tension to allow thorough wetting of asbestos fibres.
- 3.5 *Sprayer:* Sprayer with mist nozzle for application of amended water or sealant.
- 3.6 *Asbestos Waste Receptacles:* Containers for waste must be dust tight, suitable for the type of waste, impervious to asbestos and identified as asbestos waste. All waste must have two layers of containment (e.g. double bagging) and be sealed and cleaned with a damp cloth or HEPA vacuum immediately before being removed from the work area.

Also, it must be labelled as per the Ontario Ministry of Environmental regulation, and shall be acceptable to the disposal site selected and the Ministry of the Environment.

- 3.7 *Small Tools:* Sponge(s), metal bristle brush(es), bucket(s), ladder(s), heavy duty scraper(s), etc.
- 3.8 *Tape:* Reinforced duct tape or double-sided tape suitable for sealing polyethylene to all surfaces to be covered.
- 3.9 *Respirator:* See section 5 Personal Protective Equipment.
- 3.10 *Coveralls:* Full body disposable clothing of appropriate with attached hood and elasticized at cuffs and hood, made of material which does not readily retain or permit penetration of asbestos fibres.
- 3.11 *Shoe covers:* Elasticized disposable shoe covers with textured bottom for better grip. Shoe covers should be made of material which does not readily retain or permit penetration of asbestos fibres.
- 3.12 *Signage:* Warning of asbestos hazard in the work area:



#### **4.0 NOTICE OF ASBESTOS WORK**

Appropriate parties, including local-area occupants and when necessary other building users, must be notified of planned Type 2 activities involving friable asbestos. The following methods of communication apply:

- 4.1 The notification is to include a description of the planned Type 2 activity, its proposed duration, and in general terms the precautionary measures required to maintain a safe work environment. This information is to be provided to the following parties.
  - 4.1.1 All appropriate Directors (St. George, UTM, UTSC, Capital Projects)
  - 4.1.2 Manager, Environmental Hazards and Safety (St. George only)
  - 4.1.3 Director, Environmental Health and Safety
  - 4.1.4 Co-chairs of both the Trades and the Utilities Joint Health and Safety Committees
  - 4.1.5 Co-chairs, Local Joint Health and Safety Committee
  - 4.1.6 Local Area Occupants
- 4.2 Signage at Work Location
  - 4.2.1 This sign informs building users of the asbestos-related work being conducted at that work location and that entry into the area is restricted to authorized personnel only. Signs are to be posted in the work area in sufficient numbers to warn of the hazard.

#### **5.0 PERSONAL PROTECTION**

- 5.1 *Respirators:* Workers are required to don respirators when performing Type 2 work. The following shall apply:
  - 5.1.1 All respiratory equipment shall be individually assigned and identified.
  - 5.1.2 Each worker must be instructed and tested with his/her respirator.

- 5.1.3 Workers shall wear at least a half-face piece air-purifying respirator fitted with HEPA (P100) filters (material wetted). If the material cannot be wetted, a full face air-purifying respirator is required. All respirators shall be approved and labelled for protection against asbestos fibres, and shall meet the design and usage requirements of the National Institute for Occupational Safety & Health (NIOSH).
- 5.1.4 Replace filter cartridges as appropriate (36 hours of use or more frequently). Dispose of used cartridges as asbestos waste.
- 5.1.5 No supervisor or worker shall have facial hair which affects respirator-to-face seal.
- 5.2 *Protective Clothing:* All workers must be provided with full body disposable coverall and shoe covers as described in Section 3.
- 5.3 *Facilities:* Provide facilities for washing hands and face which shall be used by every worker when leaving asbestos work areas.
- 5.4 *Practice:* Workers shall not eat, drink, smoke or chew while in contaminated work areas.
- 5.5 *Work Area Entry:* All persons shall don respirators with HEPA (P100) filters and clean coveralls before entering work area.
- 5.6 *Work Area Exit:* Before leaving the Work Area and still wearing a respirator, a worker shall:-
  - 5.6.1 Thoroughly HEPA vacuum protective clothing, respirator and footwear.
  - 5.6.2 Remove decontaminated coveralls and wash hands and face with water (in Work Area).
  - 5.6.3 Leave the Work Area in street clothes and proceed to the nearest washroom to wash hands and face.
  - 5.6.4 Coveralls may be reused throughout a day provided they are disposed of after each shift, or left inside the Work Area after each use.

## **6.0 PREPARATION - WORK AREAS**

- 6.1 Do not use compressed air.
- 6.2 Clear immediate work areas of all moveable furnishings or equipment.
- 6.3 Erect tape barriers to keep all non-protected personnel at least 30 feet away. Post signs warning of asbestos hazard at tape barrier (see Appendix).
- 6.4 An enclosure is not necessary for this activity. As appropriate, a drop-sheet below the work is required; extend the drop-sheet at least 3 feet beyond line of work. Use rip-proof polyethylene if work is above rough concrete or other surface that could tear polyethylene.
- 6.5 When drilling friable asbestos materials (e.g. plaster), shut down all ventilation to and from the work area. As appropriate, seal and tape all ventilation openings close to the work area with polyethylene plastic sheeting.
- 6.6 When drilling non-friable asbestos materials (e.g. mastic, textured boards, etc.), a ventilation shut down is not required. However, as appropriate, seal and tape all ventilation openings close to the work area with polyethylene plastic sheeting.
- 6.7 Post signs warning of asbestos hazard at the entrances to the work area
- 6.8 Don respiratory equipment and coveralls as described above.

## **7.0 EXECUTION**

- 7.1 Do not use compressed air.
- 7.2 Remove any visible dust from the work area or the surfaces of asbestos products by HEPA vacuuming or damp wiping.
- 7.3 Wet (with amended water) any asbestos-containing material that may be disturbed during this work. Maintain wet conditions throughout work. Do not use excess water which will drip off the material

- 7.4 Drill using a power tool attached to HEPA dust collection following manufacturer's instructions.
- 7.5 Repeat steps above for each additional proposed drilling location.
- 7.6 At completion of work, HEPA vacuum or wet wipe the drop-sheet, tools and equipment.
- 7.7 Any polyethylene, tape and cleaning cloths are to be wetted and shall be carefully rolled together and bagged as asbestos waste. Coveralls shall be disposed of as contaminated waste..

## **8.0 WASTE TRANSPORT AND DISPOSAL**

- 8.1 Place asbestos waste into asbestos waste receptacles. Asbestos waste must be double-bagged, or double-contained, in receptacles that are clearly marked as containing asbestos. The bags or containers shall be selected to prevent any perforations or tears during filling, transport and disposal. The bags are usually rip-proof polyethylene bags sealed with duct tape. The outer bags must be HEPA vacuumed or damp wiped to remove any surface contamination immediately before being removed from the work area.
- 8.2 \*For the St. George campus, transport the sealed containers to the locked, labelled dump-container that is maintained by Facilities and Services. The key for the locked dump-container can be obtained from the Materials Expeditor (Trade Services Tool Crib). Place the asbestos waste bags in the dump container and relock the dump-container. For the appropriate disposal procedures at the Mississauga and Scarborough campuses, consult with the Director of the University department that initiated the work.



Office of Environmental Health and Safety  
UNIVERSITY OF TORONTO

Standard Operating Procedures  
for the Control of Asbestos Fibres  
During Type 2 Operations

ID R2.05

**DRILLING OF HOLES IN WALL WITH ASBESTOS JOINT DRYWALL COMPOUND  
WITH A HEPA FILTERED POWER TOOL**

The exposure of workers and the corresponding measures and procedures for the minor disturbance of friable asbestos are classified as Type 2.

When authorized workers conduct Type 2 activities involving the minor disturbance of friable asbestos, specific precautions are required in order to maintain a safe work environment for the workers and other building occupants.

The procedures follow the requirements outlined in the *Regulation Respecting Asbestos on Construction Projects and in Buildings and Repair Operations* (O.Reg. 278/05) under the Occupational Health and Safety Act of Ontario, and the transport and delivery of asbestos waste in accordance with Regulation 347 under the Environmental Protection Act.

## **1.0 APPLICATION**

- 1.1 These procedures apply to the drilling of holes in walls that contain asbestos drywall joint compound. Asbestos drywall joint compound is a non-friable asbestos-containing material.
- 1.2 Where possible, the use of hand tools to drill in drywall with asbestos drywall joint compound should be encouraged. The use of hand tools (instead of power tools) combined with the wetting down of materials will result in less airborne fibres and Type 1 procedures can be followed. See procedure R1.00 Non-Friable Asbestos Disturbance.
- 1.3 The procedures follow the methods in Ontario Ministry of Labour, Regulations Respecting Asbestos on Construction Projects and in Buildings and Repair Operations (Ontario Reg. 278/05) and the transport and delivery of asbestos waste in accordance with Regulation 347 under the Environmental Protection Act.

## **2.0 DEFINITIONS**

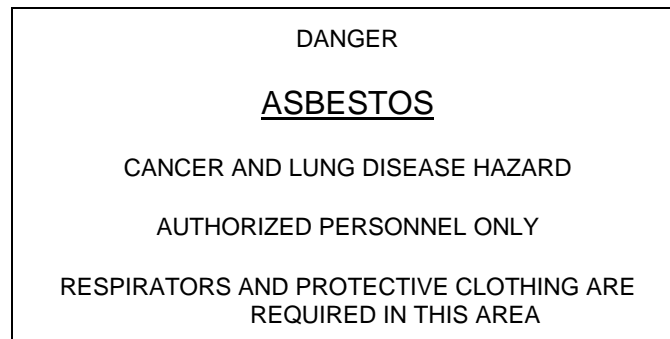
- 2.1 *Work Areas:* Where actual work activity involving non-friable asbestos takes place.
- 2.2 *Damp Wiping:* A cleaning process for removing residual asbestos contamination using damp-cloths, sponges or mops.

## **3.0 MATERIALS AND EQUIPMENT**

- 3.1 *HEPA Vacuum:* Vacuum cleaner equipped with High Efficiency Particulate Arresting (HEPA) Filter, fitted with appropriate tools. The vacuum equipment shall have a filtering system capable of collecting and retaining fibres greater than 0.3 microns in diameter at 99.97% efficiency.
- 3.2 *HEPA Filtered Tool:* A tool that has been manufactured specifically for the intended purpose and equipped with a filtering system that meets the same definition for filter efficiency above.
- 3.3 *Drop-sheet:* Rip-proof polyethylene plastic or other suitable material that is impervious to asbestos.
- 3.4 *Amended Water:* A mixture of water and a non-ionic, non-sudsing surfactant added to reduce water tension to allow thorough wetting of asbestos fibres.



- 3.5 *Sprayer:* Sprayer with mist nozzle for application of amended water or sealant.
- 3.6 *Asbestos Waste Receptacles:* Containers for waste must be dust tight, suitable for the type of waste, impervious to asbestos and identified as asbestos waste. All waste must have two layers of containment (e.g. double bagging) and be sealed and cleaned with a damp cloth or HEPA vacuum immediately before being removed from the work area. Also, it must be labelled as per the Ontario Ministry of Environmental regulation, and shall be acceptable to the disposal site selected and the Ministry of the Environment.
- 3.7 *Small Tools:* Sponge(s), metal bristle brush(es), bucket(s), ladder(s), heavy duty scraper(s), etc.
- 3.8 *Tape:* Reinforced duct tape or double-sided tape suitable for sealing polyethylene to all surfaces to be covered.
- 3.9 *Respirator:* See section 5 Personal Protective Equipment.
- 3.10 *Coveralls:* Full body disposable clothing of an appropriate size with attached hood and elasticized at cuffs and hood, made of material which does not readily retain or permit penetration of asbestos fibres.
- 3.11 Shoe covers: Elasticized disposable shoe covers with textured bottom for better grip. Shoe covers should be made of material which does not readily retain or permit penetration of asbestos fibres.
- 3.12 *Signage:* Warning of asbestos hazard in the work area:



#### **4.0 NOTICE OF ASBESTOS WORK**

Appropriate parties, including local-area occupants and when necessary other building users, must be notified of planned Type 2 activities. Where this work is part of a larger construction project, follow communications protocols for projects which are more broad and may include notifications to a large group of building occupants and relevant directors in Facilities Management (UTM and UTSc), Facilities Services (St. George) and EHS.

- 4.1 The notification is to include a description of the planned Type 2 activity, its proposed duration, and in general terms the precautionary measures required to maintain a safe work environment. This information is to be provided to the following:
- 4.1.1 Local area occupants (see Appendix I – The notification template in Appendix I can be handed to the occupants during emergency repairs, etc. or as part of an email communication when scheduling the work with the occupants. An email template version is available from EHS.).
- 4.1.2 Where appropriate, Manager, Hazardous Construction Materials Group (St. George only)
- 4.2 Signage at Work Location
- 4.2.1 This sign informs building users of the asbestos-related work being conducted at that work location and that entry into the area is restricted to authorized personnel only. Signs are to be posted in the work area in sufficient numbers to warn of the hazard.

#### **5.0 PERSONAL PROTECTION**

- 5.1 *Respirators:* Workers are required to don respirators when performing Type 2 work. The following shall apply:

- 5.1.1 All respiratory equipment shall be individually assigned and identified.
- 5.1.2 Each worker must be instructed and fit tested with his/her respirator.
- 5.1.3 Workers shall wear at least a half-face piece air-purifying respirator fitted with HEPA (P100) filters (material wetted). If the material cannot be wetted, a full face air-purifying respirator is required.
- 5.1.4 Disposable single-use type respirators are not permitted.
- 5.1.5 All respirators shall be approved and labelled for protection against asbestos fibres, and shall meet the design and usage requirements of the National Institute for Occupational Safety & Health (NIOSH).
- 5.1.6 Replace filter cartridges as appropriate (36 hours of use or more frequently). Dispose of used cartridges as asbestos waste.
- 5.1.7 No supervisor or worker shall have facial hair which affects respirator-to-face seal.
- 5.2 *Protective Clothing:* All workers must be provided with full body disposable protective clothing (coveralls), extra large size with attached hood and elasticized at the cuffs and hood, made of material which does not readily retain nor permit penetration of asbestos fibres.
- 5.3 *Facilities:* Provide facilities for washing hands and face which shall be used by every worker when leaving asbestos work areas.
- 5.4 *Practice:* Workers shall not eat, drink, smoke or chew while in contaminated work areas.
- 5.5 *Work Area Entry:* All persons shall don respirators with HEPA (P100) filters and clean coveralls before entering work area.
- 5.6 *Work Area Exit:* Before leaving the Work Area and still wearing a respirator, a worker shall:-
  - 5.6.1 Thoroughly HEPA vacuum protective clothing, respirator and footwear.
  - 5.6.2 Remove decontaminated coveralls and wash hands and face with water (in Work Area).
  - 5.6.3 Leave the Work Area in street clothes and proceed to the nearest washroom to wash hands and face.
  - 5.6.4 Coveralls may be reused throughout a day provided they are disposed of after each shift, or left inside the Work Area after each use.

## **6.0 PREPARATION - WORK AREAS**

- 6.1 Do not use compressed air.
- 6.2 Clear immediate work areas of all moveable furnishings or equipment.
- 6.3 Erect tape barriers to keep all non-protected personnel at least 20 feet away. Post signs warning of asbestos hazard at tape barrier (see Signage in Section 3).
- 6.4 An enclosure is not necessary for this activity. As appropriate, a drop-sheet below the work is required; extend the drop-sheet at least 3 feet beyond line of work. Use rip-proof polyethylene if work is above rough concrete or other surface that could tear polyethylene.
- 6.5 Seal and tape all ventilation openings close to the work area with polyethylene plastic sheeting. No ventilation shutdown is required.
- 6.6 Post signs warning of asbestos hazard at the entrances to the work area
- 6.7 Don respiratory equipment and coveralls as described above.

## **7.0 EXECUTION**

- 7.1 Do not use compressed air.
- 7.2 Wet (with amended water) any asbestos-containing material in the vicinity.

- 7.3 Remove any visible dust from the work area or the surfaces of asbestos products by HEPA vacuuming or damp wiping.
- 7.4 Drill using a power tool physically attached to HEPA dust collection following manufacturer's instructions. Alternatively, use the power drill with the Bitbuddie Dust Shroud attachment and connect to a HEPA vacuum to collect dust. The alternative Bitbuddie method should only be used on asbestos drywall joint compound is within 0.5-5% dry weight per sampling results.
- 7.5 With the HEPA filtration operating, begin the drilling process by positioning the operating drill bit at the proposed drilling location and carefully applying gentle force on the drill while the drill bit **slowly** produces a "**clear-cut**" hole in the wall; remove the tool about 5 seconds after the hole is drilled.
- 7.6 Repeat steps above for each additional proposed drilling location.
- 7.7 At completion of work, HEPA vacuum or wet wipe the drop-sheet, any other surfaces below the work area, tools and equipment.
- 7.8 Any polyethylene, tape and cleaning cloths are to be wetted and shall be carefully rolled together and bagged as asbestos waste. Coveralls shall be disposed of as contaminated waste.

## **8.0 WASTE TRANSPORT AND DISPOSAL**

- 8.1 Place asbestos waste into asbestos waste receptacles. Asbestos waste must be double-bagged, or double-contained, in receptacles that are clearly marked as containing asbestos. The bags or containers shall be selected to prevent any perforations or tears during filling, transport and disposal. The bags are usually rip-proof polyethylene bags sealed with duct tape. The outer bags must be HEPA vacuumed or damp wiped to remove any surface contamination immediately before being removed from the work area.
- 8.2 \*For the St. George campus, transport the sealed containers to the locked, labelled dump-container that is maintained by Facilities and Services. The key for the locked dump-container can be obtained from the Materials Expeditor (Trade Services Tool Crib). Place the asbestos waste bags in the dump container and relock the dump-container. For the appropriate disposal procedures at the Mississauga and Scarborough campuses, consult with the Director of the University department that initiated the work.
- 8.3 Drywall containing asbestos drywall joint compound must be disposed of as asbestos waste.

## Appendix I

### **Notification of Type 2 Asbestos Work for SOP 2.05 Drilling of Holes in Wall with Asbestos Drywall Joint Compound with a HEPA Filtered Power Tool (no ventilation shutdown required).**

**\*\*\*Please forward to all applicable occupants in or near the affected room(s).\*\*\***

Date: \_\_\_\_\_ Start time: \_\_\_\_\_ Stop time (approx.): \_\_\_\_\_

Building: \_\_\_\_\_ Room: \_\_\_\_\_

Brief Work Description: \_\_\_\_\_

Name of Contractor or Trade: \_\_\_\_\_ Phone number: \_\_\_\_\_

Property or Project Manager: \_\_\_\_\_ Phone number: \_\_\_\_\_

**Please note that workers that work on a daily basis with asbestos may be wearing respiratory protection and protective coveralls when working in an area where U of T employees, students or Faculty are present in their normal work clothes. Asbestos workers wear this PPE because they are closer to the work being carried out, and are thus exposed at a much higher level than bystanders. In addition, they perform asbestos work on a routine, and may wish to ensure that their total exposure is as low as possible. U of T employees in the area are not exposed on a daily basis, and thus are not subjected to the same level of risk. Please see the section on non-occupational exposure for more details.**

#### **ASBESTOS WORK**

University employees as well as contractors are sometimes required to conduct work that involves the disturbance of asbestos-containing materials. Such work activities are strictly regulated. They are first categorized into three types of work operations - Type 1 (low risk), Type 2 (moderate risk) or Type 3 (high risk). For each of these, the Asbestos Management Program designates corresponding standard operating procedures to prevent the exposure to airborne asbestos. These procedures include strict requirements for preparation of the work area, use of personal protective equipment, use of proper work practices to reduce the spread of asbestos fibres, personal hygiene practices, and asbestos waste handling.

#### **NON-OCCUPATIONAL EXPOSURE:**

Asbestos-specific diseases are almost always a result of occupational exposure to asbestos. Non-occupational exposures resulting in disease have only been seen in spouses or other family members living with an asbestos worker, or those who have lived in the neighbourhood of asbestos plants. Asbestos fibres are naturally occurring and result in a natural background present in our environment. This combined with the widespread use of asbestos in products such as truck brake linings, means that we are all exposed to very small amounts of asbestos in our daily lives. It is not this very low level of exposure that results in asbestos disease but the higher levels of occupational exposure that are of concern to most authorities. Studies have not shown any evidence of asbestos-specific diseases in individuals who breathe asbestos in the outdoor air or who inhale asbestos as occupants of asbestos-containing buildings. Regardless, proper measures for preventing or minimizing exposure to asbestos must always be in place.

**If you have any questions about the work being conducted, then please contact the Property Manager or Project Manager listed above.**



## **APPENDIX C**

### **3<sup>rd</sup> Floor Plan Showing Locations of Asbestos-Containing Drywall Joint Compound**



TOWER  
3RD FLOOR PLAN  
RUSSELL STREET SITE

