

March 31st, 2017

University of Toronto
255 McCaul Street, Level 4
Toronto, Ontario M5T 1W7

Attn: Mr. Irfan Miraj, P.Eng., MHSc.
Manager, Hazardous Construction Materials Group

Re: Results of PCM and TEM Air Monitoring Program
February 4th – March 31st, 2017
University of Toronto – Medical Sciences Building
1 King's College Circle, Toronto, Ontario

1.0 INTRODUCTION

Safetech Environmental Limited (SEL) has been retained from February 4, 2017 ongoing to provide air monitoring services for the University of Toronto's Medical Sciences Building located at 1 King's College Circle, Toronto, Ontario M5S 1A8. Air sampling has been performed at the request of Mr. Irfan Miraj, Manager, Hazardous Construction Materials Group, to determine if airborne asbestos fibre concentrations are within acceptable and applicable limits. This report provides and detail of air sampling conducted from February 4, 2017 to March 31, 2017.

From February 4 to March 31, SEL has collected a total of 217 representative samples, 19 location specific samples and 16 outdoor samples:

- Representative samples refer to locations that were uniformly selected and also upon occupant request. These "building-wide" air samples provide an overview of air quality with regard to airborne fibres.
- Location samples refer to samples taken pre-and post-asbestos clean-up in locations where asbestos-containing dust (>0.5%) were present.
- Outdoor reference samples were collected because asbestos fibres are naturally occurring.

The University of Toronto also provided SEL with a record of a total of 50 ambient air samples, 38 representative samples and 6 location specific samples collected by other firms from November 25 to March 31:

- Ambient samples refer to samples taken during Type 3 abatement work in locations adjacent to work areas.

2.0 SUMMARY OF CONCLUSIONS

The Medical Sciences Building air quality is not being negatively impacted by the presence of asbestos-containing building materials existing within the building. The building is deemed to be safe for general occupancy. In addition, although construction related work is being conducted at various locations within the Medical Sciences Building it does not appear that airborne fibres are being drawn into the heating, ventilation and air conditioning systems and negatively impacting the quality of air.

SEL has based above conclusions on the facts briefly described below:

- All 217 representative samples indicate that at the time of sampling the airborne fiber concentrations were well below the TWA (time weighted average) of 0.1 fibers per cubic centimeter (f/cc), in accordance with Ontario Regulation 490/09, Designated Substances and also below 50% TWA; an action level followed by SEL.
- Of the 19 location specific samples 17 samples indicate that at the time of sampling the airborne fiber concentrations were well below the TWA (time weighted average) of 0.1f/cc, in accordance with Ontario Regulation 490/09, Designated Substances and also below 50% TWA; an action level followed by SEL. 1 sample collected inside mechanical services shaft (dated March 20, 2017) indicated that at the time of sampling airborne fiber concentrations was equal to 0.13f/cc which is above the TWA (time weighted average) of 0.1f/cc. This sample was analyzed by Transmission Electron Microscope which identified “No” asbestos fibres to be present. Out of an abundance of caution, a sample in 6334 on March 22, 2017 which was at 50% of the TWA was also analyzed by Transmission Electron Microscope and “No” asbestos fibres were present. Sample in 4302A collected on March 23, 2017 was also analyzed by Transmission Electron Microscope and “No” asbestos fibres were present.
- All 16 outdoor samples also indicated that at the time of sampling the airborne fiber concentrations were well below 0.1f/cc.

Sampling by Other Firms

- All 50 ambient samples indicate that at the time of sampling the airborne fiber concentrations were below 50% of the TWA (time weighted average) of 0.1 fibers per cubic centimeter (f/cc), in accordance with Ontario Regulation 490/09, Designated Substances.
- All 38 representative samples indicate that at the time of sampling the airborne fiber concentrations were below 50% of the TWA (time weighted average) of 0.1

fibers per cubic centimeter (f/cc), in accordance with Ontario Regulation 490/09, Designated Substances.

- All 6 location specific samples indicate that at the time of sampling the airborne fiber concentrations were below 50% of the TWA (time weighted average) of 0.1 fibers per cubic centimeter (f/cc), in accordance with Ontario Regulation 490/09, Designated Substances.

Please refer to Appendix A & B for detailed spread sheets of aforementioned samples. As explained in next section (3.1), other non-asbestos fibres and particles may interfere and result in higher fibre counts. Therefore the results shown in Appendix A do not reflect airborne concentrations of asbestos alone but for the purpose of this assessment, it is compared to the TWA for asbestos. Actual airborne asbestos fibre concentration may be lower than the values in Appendix A.

3.0 METHODOLOGY

3.1 Air Monitoring for Airborne Fibres

Phase contrast microscopy (PCM) air samples were retrieved within designated locations. The air samples were collected using a 25-mm three-piece filter cassettes containing a 0.8 μm cellulose ester membrane filter and equipped with a 50-mm electrically conductive extension cowl. The filter cassettes were attached to a high volume air sampling pump calibrated with a filter cassette in line to a known flow rate.

The air sampling pumps were calibrated to a flow rate of approximately 15 litres per minute. The air samples were collected using 25 mm three piece cassette with 50 mm electrically conductive extension cowl and mixed cellulose ester filter, 0.8 μm (recommended 0.45 to 1.2 in method) effective pore size, and back-up pad. The air samples were analyzed in accordance with U.S. National Institute of Occupational Safety and Health (NIOSH) Manual of Analytical Methods, Method 7400, Issue 2: Asbestos and other Fibres by PCM (August 15, 1994), using the asbestos fibre counting rules.

The quantitative working range of this method is 0.04 to 0.5 fibre/cc for a 1000 L air sample. The Limit of Detection (LOD) depends on sample volume and quantity of interfering dust, and is < 0.01 fibre/cc for atmospheres free of interferences. The method gives an index of airborne fibres. Fibres less than approximately 0.25 μm in diameter will not be detected by this method. In addition, other airborne fibres and particles that fall within the counting range criteria may act as possible interferences. Demolition and construction related work areas where high levels of dust are present might overload the membrane and/or interfere with the analysis. As required by NIOSH Method 7400, blank filters were submitted for analysis to ensure that no contamination of the filters occurred during sampling or analytical procedures. Analytical results, as reported in the result table of this report have been field blank corrected.

3.2 Transmission Electron Microscopy

Where PCM results indicate airborne fibres to be greater than 50% of the TWA, a secondary analysis of air samples was conducted using NIOSH Method 7402, Issue 2: Asbestos by TEM (August 15, 1994). This method is used to determine asbestos fibres in the optically visible range and has the ability to distinguish asbestos fibres from other types of fibres (e.g. clothing fibres). It is intended to complement the results obtained by phase contrast microscopy (NIOSH Method 7400).

In accordance with this method, a sample is analyzed at a magnification of 10,000 times. Only fibres with an aspect ratio of $>3:1$ and only those fibres greater than $5\text{ }\mu\text{m}$ in length are counted. The quantitative working range of this method is 0.04 to 0.5 fibres per cubic centimetre (f/cc) for a 1000 litre (L) air sample. The Limit of Detection (LOD) depends on sample volume and quantity of interfering dust, and is < 0.01 fibres per cubic centimetre (f/cc) for atmospheres free of interferences. Other amphibole particles that have asbestos ratios greater than 3:1 and elemental compositions similar to the asbestos minerals may interfere in the TEM analysis. Some non-amphibole minerals may give electron diffraction patterns similar to amphiboles. High concentrations of background dust may also interfere with fibre identification.

4.0 LIMITATIONS

The investigation, assessments and recommendations detailed in this report were carried out in a manner consistent with the level of care and skill normally exercised by reasonable members of the environmental and industrial hygiene consulting profession currently practicing under similar conditions in the area. Furthermore, the investigation, assessments and recommendations in this report have been made based on conditions observed at the time of the assessment and are limited to the areas investigated.


In preparing this report, Safetech Environmental Limited (SEL) relied on information supplied by others. Except as expressly set-out in this report, SEL has not made any independent verification of such information.

The analytical method used meets the requirements of O.Reg. 278/05. However, it is important to note that this method is not specific to the identification of asbestos fibres. All particles with a length greater than 5 micrometres, less than 3 micrometres in diameter and a length to diameter ratio of 3 to 1 or greater are included in the count. Fibres with diameters less than about 0.3 micrometres cannot be detected using this method regardless of length.

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

Should you have any questions regarding this project, please contact our office.
Sincerely,

SAFETECH ENVIRONMENTAL LIMITED

A handwritten signature in black ink, appearing to read 'Josh H'.

Josh Hamilton
OH&S Technician

A handwritten signature in black ink, appearing to read 'D. Glenn Smith'.

D. Glenn Smith, BA, CRSP, AMRT
Senior Project Manager

Appendices:

- Appendix A – PCM Air Sample Spreadsheets – SEL
- Appendix B – PCM Air Sample Spreadsheets – Others
- Appendix C – TEM Analysis Laboratory Certificate of Analysis
- Appendix D – Location Specific Technical Reports
- Appendix E – Floor Plans (March 10-20, 2017)
- Appendix F – Pump Calibration Sheets
- Appendix G – PCM Analysis Example Calculation Sheet

Appendix A

PCM AIR SAMPLE SPREADSHEET-SEL

Appendix B

PCM AIR SAMPLE SPREADSHEET-OTHERS

Appendix C

TEM LABORATORY CERTIFICATES OF ANALYSIS

Appendix D

Location Specific Technical Reports

Appendix E

FLOOR PLANS (March 10-20, 2017)

Appendix F

PUMP CALIBRATION SHEET

Appendix G

PCM ANALYSIS EXAMPLE CALCULATION SHEET

Appendix A

PCM AIR SAMPLE SPREADSHEET-SEL

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 5th Floor, University of Toronto, March 31, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------------|-----------------------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 5 | 5368 | Lab | Central | 2017-03-286 | 2 | 14.98 | 10:25 | 11:55 | 90 | 1348 | 6 | 0.002 | SC/GS | Yes | Not Occupied. |
| 5 | 5364 | Shaft Adjacent to Room 5366 | Central | 2017-03-287 | 3 | 14.99 | 10:35 | 11:58 | 83 | 1244 | 6 | 0.002 | SC/GS | Yes | |
| 5 | 5306D | Shaft Adjacent to Room 5306 | Central | 2017-03-288 | 4 | 14.95 | 10:52 | 12:09 | 77 | 1151 | 5.5 | 0.002 | SC/GS | Yes | |
| NA | NA | Exterior Control | North of Medical Sciences Building | 2017-03-295 | 2 | 14.98 | 15:45 | 17:02 | 77 | 1153 | 3 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| NA | NA | Exterior Control | South of Medical Sciences Building | 2017-03-296 | 3 | 15 | 15:51 | 17:15 | 84 | 1260 | 3 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-297 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-298 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-299 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-300 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results
1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.
2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 4th Floor, University of Toronto, March 31, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------------|-----------------------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 4 | 4364 | Shaft Adjacent to Room 4366 | Central | 2017-03-289 | 6 | 15.12 | 11:17 | 12:31 | 74 | 1119 | 7 | 0.003 | SC/GS | Yes | |
| 4 | 4361A | Shaft Adjacent to Room 4361 | Central | 2017-03-290 | 7 | 14.96 | 11:25 | 12:40 | 75 | 1122 | 3.5 | 0.001 | SC/GS | Yes | |
| NA | NA | Exterior Control | North of Medical Sciences Building | 2017-03-295 | 2 | 14.98 | 15:45 | 17:02 | 77 | 1153 | 3 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| NA | NA | Exterior Control | South of Medical Sciences Building | 2017-03-296 | 3 | 15 | 15:51 | 17:15 | 84 | 1260 | 3 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-297 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-298 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-299 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-300 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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- 2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 3rd Floor, University of Toronto, March 31, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------------|-------------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 3 | 3298S | Stairwell Landing | Central | 2017-03-293 | 1 | 15.05 | 15:07 | 16:39 | 92 | 1385 | 7 | 0.002 | SC/GS | Yes | |
| NA | NA | Exterior Control | North of Medical Sciences Building | 2017-03-295 | 2 | 14.98 | 15:45 | 17:02 | 77 | 1153 | 3 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| NA | NA | Exterior Control | South of Medical Sciences Building | 2017-03-296 | 3 | 15 | 15:51 | 17:15 | 84 | 1260 | 3 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-297 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-298 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-299 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-300 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |


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Interpretation of Results

- 1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.
- 2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

| Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 2nd Floor, University of Toronto, March 31, 2017 | | | | | | | | | | | | | | | |
|---|-------------|-------------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
| 2 | 2175S | Stairwell Landing | Central | 2017-03-291 | 1 | 15.05 | 13:31 | 15:00 | 89 | 1339 | 8.5 | 0.003 | SC/GS | Yes | |
| 2 | 2298S | Stairwell Landing | Central | 2017-03-292 | 6 | 15.12 | 13:43 | 15:09 | 86 | 1300 | 6 | 0.002 | SC/GS | Yes | |
| 2 | 2388S | Stairwell Landing | Central | 2017-03-294 | 6 | 15.12 | 15:29 | 16:48 | 78 | 1179 | 7 | 0.003 | SC/GS | Yes | |
| NA | Na | Exterior Control | North of Medical Sciences Building | 2017-03-295 | 2 | 14.98 | 15:45 | 17:02 | 77 | 1153 | 3 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| NA | NA | Exterior Control | South of Medical Sciences Building | 2017-03-296 | 3 | 15 | 15:51 | 17:15 | 84 | 1260 | 3 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-297 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-298 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-299 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-300 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
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Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 6th Floor, University of Toronto, March 30, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------------|------------------|---|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 6 | 6356 | Lab | Adjacent to 6356D (shaft) | 2017-03-263 | 2 | 14.97 | 10:40 | 12:04 | 84 | 1257 | 5 | 0.002 | SC/GS | Yes | Occupied. |
| 6 | 6357 | Lab | Central | 2017-03-264 | 3 | 14.94 | 10:44 | 12:07 | 83 | 1240 | 4 | 0.001 | SC/GS | Yes | |
| NA | NA | Exterior Control | South outside Medical Sciences Building | 2017-03-279 | 4 | 14.95 | 15:15 | 16:32 | 77 | 1151 | 2 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| NA | NA | Exterior Control | North outside Medical Sciences Building | 2017-03-280 | 5 | 15.04 | 15:22 | 16:38 | 76 | 1143 | 1.5 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-281 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not Applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-282 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not Applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-283 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-284 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |


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- 1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.
- 2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

| Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 4th Floor, University of Toronto, March 30, 2017 | | | | | | | | | | | | | | | |
|--|-------------|------------------|---|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
| 4 | 4302A | Office | Adjacent to sealed plumbing. | 2017-03-262 | 1 | 15.04 | 10:25 | 11:56 | 91 | 1369 | 5 | 0.002 | SC/GS | Yes | Not occupied. |
| 4 | 4280 | Lab | Central | 2017-03-274 | 8 | 15.1 | 13:48 | 15:43 | 125 | 1887 | 4 | 0.001 | SC/GS | Yes | Occupied. |
| 4 | 4282 | Lab | Central | 2017-03-275 | 9 | 14.97 | 13:53 | 15:45 | 112 | 1677 | 7 | 0.002 | SC/GS | Yes | Not occupied. |
| 4 | 4287 | Lab | Central | 2017-03-276 | 1 | 15.04 | 14:37 | 15:53 | 76 | 1143 | 6.5 | 0.002 | SC/GS | Yes | Not occupied. |
| 4 | 4285 | Lab | Central | 2017-03-277 | 2 | 14.97 | 14:42 | 15:56 | 74 | 1108 | 4 | 0.002 | SC/GS | Yes | Not occupied. |
| 4 | 4384K | Hallway | Outside 4283 | 2017-03-278 | 3 | 14.94 | 14:48 | 16:04 | 76 | 1135 | 3 | 0.001 | SC/GS | Yes | High traffic area. |
| NA | NA | Exterior Control | South outside Medical Sciences Building | 2017-03-279 | 4 | 14.95 | 15:15 | 16:32 | 77 | 1151 | 2 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| NA | NA | Exterior Control | North outside Medical Sciences Building | 2017-03-280 | 5 | 15.04 | 15:22 | 16:38 | 76 | 1143 | 1.5 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-281 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not Applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-282 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not Applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-283 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-284 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
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| Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 3rd Floor, University of Toronto, March 30, 2017 | | | | | | | | | | | | | | | |
|--|-------------|------------------|---|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
| 3 | 3151K | Hallway | Outside 3154 | 2017-03-267 | 1 | 15.04 | 12:43 | 14:11 | 88 | 1324 | 4.5 | 0.001 | SC/GS | Yes | High traffic Area. |
| 3 | 3374K | Hallway | Outside 3172 | 2017-03-268 | 2 | 14.97 | 12:48 | 14:14 | 86 | 1287 | 6.5 | 0.002 | SC/GS | Yes | High traffic area. |
| 3 | 3281 | Computer Room | Central | 2017-03-269 | 3 | 14.94 | 12:58 | 14:22 | 84 | 1255 | 4 | 0.001 | SC/GS | Yes | Occupied |
| 3 | 3280 | Lab | Central | 2017-03-270 | 4 | 14.95 | 13:11 | 14:55 | 104 | 1555 | 2 | 0.001 | SC/GS | Yes | Occupied |
| 3 | 3282 | Lab | Central | 2017-03-271 | 5 | 15.04 | 13:17 | 15:02 | 105 | 1579 | 3 | 0.001 | SC/GS | Yes | Occupied |
| 3 | 3284 | Lab | Central | 2017-03-272 | 6 | 15.01 | 13:24 | 15:30 | 126 | 1891 | 9.5 | 0.002 | SC/GS | Yes | Not occupied. |
| 3 | 3377 | Lab | Central | 2017-03-273 | 7 | 15.03 | 13:35 | 15:35 | 120 | 1804 | 6.5 | 0.002 | SC/GS | Yes | Not occupied. |
| NA | NA | Exterior Control | South outside Medical Sciences Building | 2017-03-279 | 4 | 14.95 | 15:15 | 16:32 | 77 | 1151 | 2 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| NA | NA | Exterior Control | North outside Medical Sciences Building | 2017-03-280 | 5 | 15.04 | 15:22 | 16:38 | 76 | 1143 | 1.5 | 0.001 | SC/GS | Yes | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-281 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not Applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-282 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not Applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-283 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-284 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| <div><div><div>Safetech Environmental Limited 3045 Southcreek Road, #14 Mississauga, Ontario L4X 2X7 Tel: 905 624-2722 www.safetechenv.com</div><div><div><div>Interpretation of Results</div><div>1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc. 2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.</div></div></div><div><div><div><div></div><div></div><div></div></div><div><div>safetech</div><div>ENVIRONMENTAL LTD.</div></div></div></div></div></div> | | | | | | | | | | | | | | | |

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 7, University of Toronto, March 29, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 7 | 7316 | Classroom | Northwest | 2017-03-242 | 1 | 15.06 | 11:54 | 12:35 | 101 | 1521 | 4 | 0.001 | SC/GS | Yes | |
| 7 | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-257 | 7 | 15.01 | 16:30 | 17:45 | 75 | 1126 | 3 | 0.001 | SC/GS | Yes | Exterior sample for comparison. |
| 7 | Field Blank | NA | NA | 2017-03-258 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 7 | Field Blank | NA | NA | 2017-03-259 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

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2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.



Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 2, University of Toronto, March 29, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|------------------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 2 | 2279 | Lab | Central | 2017-03-254 | 4 | 14.93 | 15:21 | 16:42 | 81 | 1209 | 6 | 0.002 | SC/GS | Yes | |
| 2 | 2282 | Lab | Central | 2017-03-255 | 5 | 15.02 | 15:28 | 16:45 | 77 | 1157 | 4.5 | 0.002 | SC/GS | Yes | |
| 2 | 2277 | Robot Room (Custodial) | Central | 2017-03-256 | 6 | 15.09 | 15:45 | 17:01 | 76 | 1147 | 10 | 0.004 | SC/GS | Yes | |
| 2 | Exterior Control | Outdoors | Outside Medical Sciences Buiulding | 2017-03-257 | 7 | 15.01 | 16:30 | 17:45 | 75 | 1126 | 3 | 0.001 | SC/GS | Yes | Exterior sample for comparison. |
| 2 | Field Blank | NA | NA | 2017-03-258 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 2 | Field Blank | NA | NA | 2017-03-259 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

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2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.



Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 1, University of Toronto, March 29, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-----------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|--|
| 1 | 1134 | Classroom | Central | 2017-03-243 | 2 | 14.97 | 12:18 | 14:25 | 127 | 1901 | 4 | 0.001 | SC/GS | Yes | |
| 1 | 1140 | Classroom | Central | 2017-03-244 | 3 | 15.03 | 12:24 | 14:27 | 132 | 1984 | 4 | 0.001 | SC/GS | Yes | |
| 1 | 1144 | Classroom | Central | 2017-03-245 | 4 | 14.93 | 12:32 | 14:48 | 136 | 2030 | 4 | 0.001 | SC/GS | Yes | |
| 1 | 1106 | Conference Room | Central | 2017-03-246 | 5 | 15.02 | 12:36 | 14:52 | 136 | 2043 | 4.5 | 0.001 | SC/GS | Yes | |
| 1 | 1114 | Prosection | Central | 2017-03-247 | 6 | 15.09 | 12:45 | 15:03 | 138 | 2082 | 2 | 0.001 | SC/GS | Yes | |
| 1 | 1162/1164 | Dissection | Central | 2017-03-248 | 7 | 15.01 | 12:51 | 15:09 | 138 | 2071 | 5.5 | 0.001 | SC/GS | Yes | Granted permission by Anatomy staff to conduct one test for adjoining rooms. |
| 1 | 1135 | Dissection | Central | 2017-03-249 | 8 | 14.96 | 13:58 | 16:09 | 131 | 1960 | 5 | 0.001 | SC/GS | Yes | |
| 1 | 1137 | Dissection | Central | 2017-03-250 | 9 | 15.03 | 14:02 | 16:10 | 128 | 1924 | 7 | 0.002 | SC/GS | Yes | |
| 1 | 1175 | Dissection | Central | 2017-03-251 | 1 | 15.06 | 14:20 | 16:16 | 116 | 1747 | 11 | 0.003 | SC/GS | Yes | |
| 1 | 1176 | Dissection | Central | 2017-03-252 | 2 | 14.97 | 16:05 | 17:20 | 75 | 1123 | 7 | 0.003 | SC/GS | Yes | |
| 1 | 1166/1168 | Dissection | Northwest | 2017-03-206 | 4 | 15 | 15:40 | 17:30 | 110 | 1650 | 6.5 | 0.002 | SC/GS | Yes | Granted permission by Anatomy Staff to conduct one test for adjoining rooms. |
| 1 | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-257 | 7 | 15.01 | 16:30 | 17:45 | 75 | 1126 | 3 | 0.001 | SC/GS | Yes | Exterior sample for comparison. |
| 1 | Field Blank | NA | NA | 2017-03-258 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 1, University of Toronto, March 29, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------------|-------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 1 | Field Blank | NA | NA | 2017-03-259 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 1 | Field Blank | NA | NA | 2017-03-260 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 1 | Field Blank | NA | NA | 2017-03-261 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 1, University of Toronto, March 24, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-----------------|-----------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 1 | 1134 | Classroom | Central | 2017-03-230 | 1 | 15.04 | 15:25 | 16:50 | 85 | 1278 | 13 | 0.005 | SC | Yes | |
| 1 | 1140 | Office | Central | 2017-03-231 | 2 | 15.01 | 15:29 | 16:52 | 93 | 1397 | 6.5 | 0.002 | SC | Yes | |
| 1 | 1144 | Classroom | Central | 2017-03-232 | 3 | 15 | 15:34 | 16:58 | 84 | 1260 | 7 | 0.003 | SC | Yes | |
| 1 | 1146 | Boardroom | Central | 2017-03-233 | 4 | 15.06 | 15:38 | 17:00 | 82 | 1235 | 3 | 0.001 | SC | Yes | |
| 1 | 1105 | Dissection | Central | 2017-03-234 | 8 | 15.01 | 15:47 | 17:06 | 79 | 1186 | 5 | 0.002 | SC | Yes | |
| 1 | 1106 | Conference Room | Central | 2017-03-235 | 5 | 15.03 | 16:19 | 17:45 | 86 | 1293 | 9 | 0.003 | SC | Yes | |
| 1 | 1114 | Prosection | Central | 2017-03-236 | 9 | 15.02 | 16:38 | 17:50 | 72 | 1081 | 5 | 0.004 | SC | Yes | |
| 1 | 1162 | Dissection | Central | 2017-03-237 | 10 | 15.03 | 16:46 | 17:58 | 72 | 1082 | 6 | 0.004 | SC | Yes | |
| | Exterior Control | Outdoors | Outside Medical Sciences Building | 2017-03-239 | 4 | 15.06 | 18:15 | 19:25 | 70 | 1054 | 41 | 0.018 | SC | NA | Exterior sample for comparison. |
| 1 | Field Blank | NA | NA | 2017-03-240 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 1 | Field Blank | NA | NA | 2017-03-241 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 7th Floor (Rush), University of Toronto, March 24, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------------|-------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 7 | 7366 | Lab | Central | 2017-03-224 | 2 | 15.02 | 9:17 | 10:36 | 79 | 1187 | 35.5 | 0.014 | JG | Yes | |
| 6 | Field Blank | NA | NA | 2017-03-228 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-229 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

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2) For each area tested compare the "Results f/cc" column to your area and how
it compares to the above noted regulation.



Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 6th Floor (Rush), University of Toronto, March 24, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------------|-------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 7 | 6357 | Lab | Central | 2017-03-223 | 1 | 15.04 | 9:05 | 10:30 | 85 | 1278 | 35 | 0.013 | JG | Yes | |
| 6 | Field Blank | NA | NA | 2017-03-228 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-229 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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2) For each area tested compare the "Results f/cc" column to your area and how
it compares to the above noted regulation.



Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 3rd Floor (Rush), University of Toronto, March 24, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------------|-------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 3 | 3305 | Lab | Central | 2017-03-225 | 3 | 15 | 9:35 | 11:06 | 91 | 1365 | 16.5 | 0.006 | JG | Yes | |
| 3 | 3213 | Office | Central | 2017-03-226 | 4 | 15.06 | 9:45 | 11:09 | 84 | 1265 | 31 | 0.012 | JG | Yes | |
| 3 | 3215 | Office | Central | 2017-03-227 | 5 | 15.03 | 10:04 | 11:15 | 71 | 1067 | 20 | 0.009 | JG | Yes | |
| 6 | Field Blank | NA | NA | 2017-03-228 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-229 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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it compares to the above noted regulation.



Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 7th Floor, University of Toronto, March 23, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 7 | 7366A | Office | Central | 2017-03-216 | 5 | 15.1 | 12:40 | 14:00 | 80 | 1208 | 74.5 | 0.03 | JG | Yes | |
| 7 | 7366B | Office | Central | 2017-03-217 | 8 | 15.06 | 12:45 | 14:06 | 81 | 1220 | 42 | 0.017 | JG | Yes | |
| 7 | 7368 | Lab | Central | 2017-03-218 | 9 | 15 | 12:52 | 14:20 | 88 | 1320 | 55 | 0.02 | JG | Yes | |
| | Exterior Control | Outdoors | Outside Medical Sciences Buiulding | 2017-03-220 | 1 | 15.03 | 14:51 | 16:08 | 77 | 1157 | 15 | 0.006 | JG | Yes | Exterior sample for comparison. |
| 6 | Field Blank | NA | NA | 2017-03-221 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-222 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.



Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 6th Floor, University of Toronto, March 23, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 6 | 6356 | Lab | Southeast | 2017-03-219 | 10 | 15 | 13:09 | 14:28 | 79 | 1185 | 18 | 0.007 | JG | Yes | |
| | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-220 | 1 | 15.03 | 14:51 | 16:08 | 77 | 1157 | 15 | 0.006 | JG | Yes | Exterior sample for comparison. |
| 6 | Field Blank | NA | NA | 2017-03-221 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-222 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

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2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.



Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 4th Floor, University of Toronto, March 23, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 4 | 4206 | Lab | Northeast | 2017-03-214 | 3 | 15 | 12:01 | 13:41 | 100 | 1500 | 13 | 0.004 | JG | Yes | |
| 4 | 4302A | Office | Central | 2017-03-215 | 4 | 15.12 | 12:11 | 13:50 | 99 | 1497 | 65 | 0.021 | JG | Yes | |
| | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-220 | 1 | 15.03 | 14:51 | 16:08 | 77 | 1157 | 15 | 0.006 | JG | Yes | Exterior sample for comparison. |
| 6 | Field Blank | NA | NA | 2017-03-221 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-222 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 3rd Floor, University of Toronto, March 23, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 3 | 3277 | Dark Room | Central | 2017-03-212 | 1 | 15.03 | 11:39 | 13:31 | 112 | 1683 | 21 | 0.006 | JG | Yes | |
| 3 | 3260 | Lab | Central | 2017-03-213 | 2 | 14.94 | 11:51 | 13:34 | 103 | 1539 | 24 | 0.007 | JG | Yes | |
| | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-220 | 1 | 15.03 | 14:51 | 16:08 | 77 | 1157 | 15 | 0.006 | JG | Yes | Exterior sample for comparison. |
| 6 | Field Blank | NA | NA | 2017-03-221 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-222 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.



| Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 9th Floor Mechanical Room, University of Toronto, March 22, 2017 | | | | | | | | | | | | | | | |
|---|------------------|------------------------------|-----------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
| 9 | | 9th Floor is mechanical room | East Central | 2017-03-199 | 9 | 15.02 | 14:40 | 16:16 | 96 | 1442 | 7.5 | 0.002 | JC | Yes | |
| 9 | | 9th Floor is mechanical room | Southeast | 2017-03-200 | 10 | 15 | 14:45 | 16:19 | 94 | 1410 | 21.5 | 0.007 | JC | Yes | |
| 9 | | 9th Floor is mechanical room | Northeast | 2017-03-201 | 6 | 14.13 | 14:53 | 16:58 | 125 | 1766 | 10 | 0.002 | JC | Yes | |
| 9 | | 9th Floor is mechanical room | East Central | 2017-03-202 | 5 | 15.02 | 14:58 | 17:05 | 127 | 1908 | 30 | 0.007 | JC | Yes | |
| 9 | | 9th Floor is mechanical room | Central | 2017-03-203 | 1 | 15.01 | 15:12 | 17:15 | 123 | 1846 | 10.5 | 0.002 | JC | Yes | |
| 9 | | 9th Floor is mechanical room | North Central | 2017-03-204 | 2 | 15.04 | 15:18 | 17:19 | 121 | 1820 | 13 | 0.003 | JC | Yes | |
| 9 | | 9th Floor is mechanical room | South Central | 2017-03-205 | 3 | 15.02 | 15:23 | 17:17 | 114 | 1712 | 18 | 0.005 | JC | Yes | |
| 9 | | 9th Floor is mechanical room | Northwest | 2017-03-206 | 4 | 15 | 15:40 | 17:30 | 110 | 1650 | 18 | 0.005 | JC | Yes | |
| 9 | | 9th Floor is mechanical room | West Central | 2017-03-207 | 7 | 14.46 | 15:45 | 17:35 | 110 | 1591 | 18.5 | 0.005 | JC | Yes | |
| 9 | | 9th Floor is mechanical room | South Central | 2017-03-208 | 8 | 15.01 | 15:48 | 17:32 | 104 | 1561 | 21.5 | 0.006 | JC | Yes | |
| NA | Exterior Control | Outdoors | Outside Medical Sciences Building | 2017-03-209 | 10 | 15.03 | 16:32 | 17:44 | 72 | 1082 | 3 | 0.001 | JC | Yes | Exterior sample for comparison. |
| NA | Field Blank | NA | NA | 2017-03-210 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| NA | Field Blank | NA | NA | 2017-03-211 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
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Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 7th Floor, University of Toronto, March 22, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|------------------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|-------------------------------------|
| 7 | 7336 | Lab Under Construction | Northeast | 2017-03-197 | 3 | 15.02 | 11:57 | 13:58 | 121 | 1817 | 18 | 0.004 | JC | Yes | Construction Area. High Particulate |
| 7 | 7368 | Lab | Central | 2017-03-198 | 4 | 15 | 12:06 | 13:54 | 108 | 1620 | 34 | 0.009 | JC | Yes | |
| NA | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-209 | 10 | 15.03 | 16:32 | 17:44 | 72 | 1082 | 3 | 0.001 | JC | Yes | Exterior sample for comparison. |
| NA | Field Blank | NA | NA | 2017-03-210 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| NA | Field Blank | NA | NA | 2017-03-211 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.

2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.



Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 6th Floor 6334, University of Toronto, March 22, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 6 | 6334 | Lab | Central | 2017-03-196 | 1 | 15.01 | 11:03 | 13:22 | 139 | 2086 | 100 | 0.05 | JG | Yes | |
| NA | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-209 | 10 | 15.03 | 16:32 | 17:44 | 72 | 1082 | 3 | 0.001 | JC | Yes | Exterior sample for comparison. |
| NA | Field Blank | NA | NA | 2017-03-210 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| NA | Field Blank | NA | NA | 2017-03-211 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

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2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.



Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, 6th Floor 6334, University of Toronto, March 22, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|--|
| 6 | 6334 | Lab | Central | 2017-03-196 | 1 | 15.01 | 11:03 | 13:22 | 139 | 2086 | 100 | 0.05 | JG | Yes | Phase Contrast Microscopy Analysis |
| | | | | | | | | | | | | <0.0013 | EMSL Lab | Yes | Transmission Electron Microscopy Analysis. Airborne fibre concentration below the limit of detection. No asbestos fibres detected in sample. |
| NA | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-209 | 10 | 15.03 | 16:32 | 17:44 | 72 | 1082 | 3 | 0.001 | JC | Yes | Exterior sample for comparison. |
| NA | Field Blank | NA | NA | 2017-03-210 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| NA | Field Blank | NA | NA | 2017-03-211 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |


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Interpretation of Results

- 1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.
- 2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.
- 3) Transmission Electron Microscopy Analysis as per NISOH Method 7402

| Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 8 (Mechanical Room), University of Toronto, March 21, 2017 | | | | | | | | | | | | | |
|--|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| Floor | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
| 8 | Northeast | 2017-03-168 | 1 | 15.03 | 10:39 | 12:23 | 104 | 1563 | 18 | 0.006 | JC | Yes | |
| 8 | East | 2017-03-169 | 2 | 15.03 | 10:45 | 12:26 | 101 | 1518 | 12 | 0.004 | JC | Yes | |
| 8 | Southeast | 2017-03-170 | 3 | 15 | 10:50 | 12:34 | 104 | 1560 | 17.5 | 0.005 | JC | Yes | |
| 8 | East Central | 2017-03-171 | 4 | 15.01 | 10:53 | 12:31 | 98 | 1471 | 8 | 0.003 | JC | Yes | |
| 8 | Central | 2017-03-172 | 5 | 15.05 | 11:13 | 13:28 | 135 | 2032 | 15 | 0.004 | JC | Yes | |
| 8 | North Central | 2017-03-173 | 6 | 14.09 | 11:17 | 13:33 | 136 | 1916 | 16 | 0.004 | JC | Yes | |
| 8 | South Central | 2017-03-174 | 7 | 14.52 | 11:22 | 13:30 | 128 | 1859 | 21.5 | 0.006 | JC | Yes | |
| 8 | Southwest | 2017-02-175 | 8 | 15.03 | 11:34 | 14:33 | 119 | 1789 | 32.5 | 0.009 | JC | Yes | |
| 8 | West Central | 2017-03-176 | 9 | 15 | 11:38 | 14:36 | 178 | 2670 | 41 | 0.007 | JC | Yes | |
| 8 | Northwest | 2017-03-177 | 10 | 15.06 | 11:44 | 14:41 | 177 | 2666 | 19 | 0.003 | JC | Yes | |
| NA | Outside Medical Sciences Buiilding | 2017-03-191 | 2 | 15.03 | 17:12 | 18:19 | 67 | 1007 | 2 | 0.001 | JC | Yes | Exterior sample for comparison. |
| NA | NA | 2017-03-192 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| NA | NA | 2017-03-193 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| <div><div><div>Safetech Environmental Limtied 3045 Southcreek Road, #14 Mississauga, Ontario L4X 2X7 Tel: 905 624-2722 www.safetechenv.com</div><div><u>Interpretation of Results</u> 1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc. 2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.</div></div><div></div></div> | | | | | | | | | | | | | |

| Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 3 (Part 2), University of Toronto, March 21, 2017 | | | | | | | | | | | | | | | |
|--|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
| 3 | 3341 | Lab | Central | 2017-03-178 | 1 | 15.03 | 12:46 | 15:25 | 159 | 2390 | 31 | 0.006 | JC | Yes | Lab animals present. |
| 3 | 3342 | Lab | Central | 2017-03-179 | 3 | 15 | 12:54 | 15:51 | 177 | 2655 | 9 | 0.002 | JC | Yes | |
| 3 | 3344 | Lab | Northeast | 2017-03-180 | 4 | 15.01 | 13:02 | 15:34 | 152 | 2282 | 10 | 0.002 | JC | Yes | |
| 3 | 3360 | Lab | Central | 2017-03-181 | 2 | 15.03 | 13:20 | 15:40 | 140 | 2104 | 16 | 0.004 | JC | Yes | |
| 3 | 3305D | Office | Central | 2017-03-182 | 7 | 14.52 | 13:56 | 15:47 | 111 | 1612 | 9 | 0.003 | JC | Yes | |
| 3 | 3232 | Lab | Northeast | 2017-03-183 | 5 | 15.05 | 14:13 | 15:51 | 98 | 1475 | 15 | 0.005 | JC | Yes | |
| 3 | 3366 | Lab | Northeast | 2017-03-184 | 8 | 15 | 15:10 | 16:17 | 67 | 1005 | 16.5 | 0.008 | JC | Yes | |
| 3 | 3240 | Lab | Central | 2017-03-185 | 1 | 15.03 | 14:25 | 16:09 | 104 | 1563 | 6 | 0.002 | JC | Yes | |
| NA | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-191 | 2 | 15.03 | 17:12 | 18:19 | 67 | 1007 | 2 | 0.001 | JC | Yes | Exterior sample for comparison. |
| NA | Field Blank | NA | NA | 2017-03-194 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| N A | Field Blank | NA | NA | 2017-03-195 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| <div><div><div>Safetech Environmental Limited 3045 Southcreek Road, #14 Mississauga, Ontario L4X 2X7 Tel: 905 624-2722 www.safetechenv.com</div><div><div>Interpretation of Results</div><div>1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc. 2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.</div></div><div></div></div></div> | | | | | | | | | | | | | | | |

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 6, University of Toronto, March 20, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|------------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|--|
| 6 | 6334c | Mechanical Riser | Central | 2017-03-167 | 4 | 15.01 | 12:33 | 13:53 | 80 | 1201 | 100 | 0.13 | JC | No | Phase Contrast Microscopy Analysis |
| | | | | | | | | | | | | <0.0022 | EMSL Lab | Yes | Transmission Electron Microscopy Analysis. Airborne fibre concentration below the limit of detection. No asbestos fibres detected in sample. |
| NA | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-161 | 8 | 15.08 | 14:11 | 15:40 | 89 | 1342 | 3 | 0.001 | JC | Yes | Exterior sample for comparison. |
| NA | Field blank | NA | NA | 2017-03-162 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| NA | Field Blank | NA | NA | 2017-03-163 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| NA | Field Blank | NA | NA | 2017-03-164 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| NA | Field Blank | NA | NA | 2017-03-165 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.

2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

3) Transmission Electron Microscopy Analysis as per NISOH Method 7402

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 5, University of Toronto, March 20, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------|----------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|--------------|---------|--------------------------|--------------------|
| 5 | 5234 | Elevator Lobby | Central | 2017-03-142 | 1 | 15.03 | 10:44 | 11:52 | 68 | 1022 | 13 | 0.006 | JC | Yes | High traffic area. |
| 5 | 5235 | Men's Washroom | Central | 2017-03-143 | 2 | 15 | 10:53 | 12:00 | 67 | 1005 | 20.5 | 0.01 | JC | Yes | High traffic area. |
| 5 | 5302 | Lab | Central | 2017-03-144 | 3 | 15.03 | 11:01 | 12:12 | 71 | 1067 | 17.5 | 0.008 | JC | Yes | |
| 5 | 5306 | Lab | Central | 2017-03-145 | 4 | 15.01 | 11:05 | 12:15 | 70 | 1051 | 11.5 | 0.005 | JC | Yes | Vacant |
| 5 | 5322K | Hallway | Central | 2017-03-146 | 5 | 15.05 | 11:10 | 12:57 | 107 | 1610 | 17 | 0.005 | JC | Yes | |
| 5 | 5222K | Hallway | Central | 2017-03-147 | 6 | 14.13 | 11:15 | 13:00 | 105 | 1484 | 16.5 | 0.005 | JC | Yes | |
| 5 | 5316 | Lab | Central | 2017-03-148 | 7 | 14.47 | 11:23 | 13:17 | 114 | 1650 | 64.5 | 0.019 | JC | Yes | |
| 5 | 5318 | Lab | Central | 2017-02-149 | 8 | 15 | 11:26 | 13:14 | 108 | 1620 | 30 | 0.009 | JC | Yes | |
| 5 | 5334 | Lab | Central | 2017-03-150 | 9 | 15.06 | 11:33 | 13:34 | 121 | 1822 | 12 | 0.003 | JC | Yes | |
| 5 | 5348K | Hallway | Central | 2017-03-151 | 10 | 15.03 | 11:36 | 13:39 | 123 | 1849 | 14.5 | 0.004 | JC | Yes | |
| 5 | 5342 | Lab | Central | 2017-03-152 | 1 | 15.03 | 12:06 | 14:43 | 157 | 2360 | 16.5 | 0.003 | JC | Yes | |
| 5 | 5350K | Hallway | Central | 2017-03-153 | 2 | 15 | 12:10 | 14:46 | 156 | 2340 | 22 | 0.005 | JC | Yes | |
| 5 | 5360 | Lab | Central | 2017-03-154 | 5 | 15.05 | 13:07 | 14:49 | 102 | 1535 | 14 | 0.004 | JC | Yes | Vacant |
| 5 | 5368 | Lab | Central | 2017-03-155 | 6 | 14.13 | 13:11 | 14:51 | 100 | 1413 | 14 | 0.005 | JC | Yes | |
| 5 | 5369K | Hallway | Central | 2017-03-156 | 7 | 14.47 | 13:27 | 14:57 | 90 | 1302 | 12 | 0.004 | JC | Yes | |
| 5 | 5271K | Hallway | Central | 2017-03-157 | 8 | 15 | 13:31 | 15:00 | 89 | 1335 | 19 | 0.007 | JC | Yes | |

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 5, University of Toronto, March 20, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 5 | 5218 | Lab | Central | 2017-03-158 | 10 | 15.03 | 13:43 | 15:06 | 83 | 1247 | 8 | 0.003 | JC | Yes | Vacant |
| 5 | 5202 | Lab | Central | 2017-03-159 | 9 | 15.06 | 13:48 | 15:08 | 80 | 1205 | 10 | 0.004 | JC | Yes | Vacant |
| 5 | 5363 | Office | Central | 2017-03-160 | 3 | 15.03 | 14:11 | 15:18 | 67 | 1007 | 12 | 0.006 | JC | Yes | |
| 5 | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-161 | 8 | 15.08 | | 15:40 | 89 | 1342 | 3 | 0.001 | JC | Yes | Exterior sample for comparison. |
| 5 | Field blank | NA | NA | 2017-03-162 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 5 | Field Blank | NA | NA | 2017-03-163 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 5 | Field Blank | NA | NA | 2017-03-164 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 5 | Field Blank | NA | NA | 2017-03-165 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results
1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.

2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 2, University of Toronto, March 17, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------|-----------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|--------------|---------|--------------------------|-------------------|
| 2 | 2124 | Office | Central | 2017-03-0119 | 1 | 15.03 | 11:11 | 12:59 | 108 | 1623 | 20 | 0.006 | JC | Yes | |
| 2 | 2130V | Hallway | Central | 2017-03-120 | 2 | 15.02 | 11:17 | 13:02 | 105 | 1577 | 51 | 0.016 | JG | Yes | High Traffic Area |
| 2 | 2122K | Hallway | Central | 2017-03-121 | 3 | 15.02 | 11:29 | 13:07 | 98 | 1472 | 22 | 0.007 | JG | Yes | High Traffic Area |
| 2 | 2317 | Conference Room | Central | 2017-03-122 | 4 | 15.03 | 11:37 | 13:10 | 93 | 1398 | 9 | 0.003 | JG | Yes | |
| 2 | 2325K | Hallway | Central | 2017-03-123 | 5 | 15.05 | 11:46 | 13:53 | 127 | 1911 | 32.5 | 0.008 | JG | Yes | High Traffic Area |
| 2 | 2306 | Office | Central | 2017-03-124 | 6 | 14.08 | 11:53 | 13:54 | 121 | 1704 | 20 | 0.006 | JC | Yes | |
| 2 | 2322 | Lunch Room | Central | 2017-03-125 | 7 | 14.5 | 12:08 | 14:04 | 116 | 1682 | 27 | 0.008 | JC | Yes | |
| 2 | 2302 | Conference Room | Central | 2017-03-126 | 8 | 15.03 | 12:18 | 14:08 | 110 | 1653 | 13.5 | 0.004 | JC | Yes | |
| 2 | 2128V | Hallway | Central | 2017-03-127 | 9 | 15.03 | 12:25 | 14:47 | 142 | 2134 | 38.5 | 0.009 | JG | Yes | High Traffic Area |
| 2 | 2328G | Men's washrrom | Central | 2017-03-128 | 10 | 15.01 | 12:32 | 14:49 | 137 | 2056 | 36 | 0.008 | JG | Yes | |
| 2 | 2138K | Hallway | Central | 2017-03-129 | 1 | 15.03 | 13:23 | 15:51 | 148 | 2224 | 28.5 | 0.006 | JC | Yes | High Traffic Area |
| 2 | 2360K | Hallway | Central | 2017-03-130 | 3 | 15.02 | 13:59 | 15:37 | 98 | 1472 | 9 | 0.003 | JC | Yes | High Traffic Area |
| 2 | 2384K | Hallway | Central | 2017-03-131 | 4 | 15.03 | 13:49 | 15:45 | 116 | 1743 | 21.5 | 0.006 | JC | Yes | High Traffic Area |
| 2 | 2375K | Hallway | Central | 2017-03-132 | 5 | 15.05 | 14:21 | 15:50 | 89 | 1339 | 40.5 | 0.015 | JG | Yes | High Traffic Area |
| 2 | 2175K | Hallway | Central | 2017-03-133 | 6 | 14.08 | 14:27 | 15:52 | 85 | 1197 | 15.5 | 0.006 | JC | Yes | High Traffic Area |

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 2, University of Toronto, March 17, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-----------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 2 | 2284K | Hallway | Central | 2017-03-134 | 7 | 14.5 | 14:34 | 16:02 | 88 | 1276 | 19.5 | 0.007 | JC | Yes | High Traffic Area |
| 2 | 2386K | Hallway | Central | 2017-03-135 | 8 | 15.03 | 14:42 | 16:05 | 83 | 1247 | 21 | 0.008 | JC | Yes | High Traffic Area |
| 2 | 2328W | Student Commons | Central | 2017-03-136 | 9 | 15.03 | 15:01 | 16:10 | 69 | 1037 | 19 | 0.009 | JC | Yes | High Traffic Area |
| 2 | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-137 | 10 | 15.01 | 15:05 | 16:22 | 77 | 1156 | 2 | 0.001 | JC | Yes | Exterior sample for comparison. |
| 2 | Field blank | NA | NA | 2017-03-138 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 2 | Field Blank | NA | NA | 2017-03-139 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 2 | Field Blank | NA | NA | 2017-03-140 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 2 | Field Blank | NA | NA | 2017-03-141 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

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2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 3, University of Toronto, March 16, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------|----------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|--------------|---------|--------------------------|--------------------|
| 3 | 3234 | Elevator Lobby | Central | 2017-03-096 | 1 | 15.03 | 10:22 | 12:08 | 106 | 1593 | 24 | 0.007 | JC | Yes | High traffic area. |
| 3 | 3302 | Lab | Central | 2017-03-097 | 3 | 15.05 | 10:45 | 12:34 | 109 | 1640 | 8 | 0.002 | JC | Yes | |
| 3 | 3308 | Lab | Central | 2017-03-098 | 4 | 14.92 | 10:56 | 12:37 | 101 | 1507 | 12 | 0.004 | JC | Yes | |
| 3 | 3318 | Lab | Central | 2017-03-099 | 5 | 14.97 | 11:03 | 12:43 | 100 | 1497 | 11 | 0.004 | JC | Yes | |
| 3 | 3320K | Hallway | Central | 2017-03-100 | 6 | 14.04 | 11:10 | 12:46 | 96 | 1348 | 19 | 0.007 | JC | Yes | High traffic area. |
| 3 | 3348K | Hallway | Central | 2017-03-101 | 7 | 14.46 | 11:18 | 13:29 | 131 | 1894 | 9.5 | 0.002 | JC | Yes | High traffic area. |
| 3 | 3336 | Lab | Central | 2017-03-102 | 8 | 15.06 | 11:25 | 13:31 | 126 | 1898 | 4.5 | 0.001 | JC | Yes | |
| 3 | 3324K | Hallway | Central | 2017-02-103 | 9 | 15.04 | 11:33 | 14:06 | 153 | 2301 | 8.5 | 0.003 | JC | Yes | High traffic area. |
| 3 | 3323A | Hallway | Central | 2017-03-104 | 10 | 14.96 | 11:39 | 14:09 | 150 | 2244 | 3 | 0.001 | SC | Yes | High traffic area. |
| 3 | 3239K | Hallway | Central | 2017-03-105 | 1 | 15.03 | 12:22 | 14:42 | 140 | 2105 | 10 | 0.002 | SC | Yes | High traffic area. |
| 3 | 3350K | Hallway | Central | 2017-03-106 | 2 | 15.04 | 12:30 | 14:43 | 133 | 2000 | 8 | 0.002 | SC | Yes | High traffic area. |
| 3 | 3305 | Lab | Central | 2017-03-107 | 5 | 14.97 | 13:01 | 14:54 | 113 | 1692 | 11 | 0.003 | SC | Yes | |
| 3 | 3317 | Lab | Central | 2017-03-108 | 6 | 14.04 | 13:07 | 14:50 | 103 | 1446 | 7 | 0.002 | SC | Yes | |
| 3 | 3342 | Lab | Central | 2017-03-109 | 3 | 15.03 | 13:16 | 15:00 | 104 | 1563 | 13 | 0.004 | SC | Yes | |
| 3 | 3344 | Lab | Central | 2017-03-110 | 4 | 14.92 | 13:25 | 15:02 | 97 | 1447 | 8.5 | 0.003 | SC | Yes | |

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 3, University of Toronto, March 16, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 3 | 3360 | Lab | Central | 2017-03-111 | 7 | 14.46 | 13:53 | 15:13 | 80 | 1157 | 9.5 | 0.004 | SC | Yes | |
| 3 | 3366 | Lab | Central | 2017-03-112 | 8 | 15.06 | 13:58 | 15:09 | 71 | 1069 | 8.5 | 0.004 | SC | Yes | |
| 3 | 3369K | Hallway | Central | 2017-03-113 | 9 | 15.04 | 14:08 | 15:21 | 73 | 1098 | 12 | 0.005 | SC | Yes | High traffic area. |
| 4 | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-114 | 8 | 15.08 | 14:11 | 15:40 | 89 | 1342 | 2 | 0.001 | SC | Yes | Exterior sample for comparison. |
| 3 | Field blank | NA | NA | 2017-03-115 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 3 | Field Blank | NA | NA | 2017-03-116 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 3 | Field Blank | NA | NA | 2017-03-117 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 3 | Field Blank | NA | NA | 2017-03-118 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.

2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 4, University of Toronto, March 15, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------|----------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|--------------|---------|--------------------------|--------------------|
| 4 | 4234 | Elevator Lobby | Central | 2017-03-072 | 1 | 15.11 | 10:27 | 12:11 | 104 | 1571 | 3 | 0.001 | | Yes | High traffic area. |
| 4 | 4235 | Men's Washroom | Central | 2017-03-073 | 2 | 15.06 | 10:32 | 12:13 | 101 | 1521 | 6 | 0.002 | | Yes | |
| 4 | 4344 | Lab | Central | 2017-03-074 | 5 | 15.05 | 10:48 | 12:34 | 106 | 1595 | 5 | 0.002 | | Yes | |
| 4 | 4342 | Lab | Central | 2017-03-075 | 6 | 14.03 | 10:53 | 12:38 | 105 | 1473 | 5 | 0.002 | | Yes | |
| 4 | 4334 | Lab | Central | 2017-03-076 | 3 | 15.02 | 11:02 | 13:03 | 121 | 1817 | 18 | 0.005 | | Yes | |
| 4 | 4326 | Lab | Central | 2017-03-077 | 4 | 14.97 | 11:12 | 12:59 | 107 | 1602 | 4 | 0.001 | | Yes | |
| 4 | 4318 | Lab | Central | 2017-03-078 | 9 | 15.06 | 11:25 | 13:28 | 123 | 1852 | 4 | 0.001 | | Yes | |
| 4 | 4316 | Lab | Central | 2017-02-079 | 10 | 15.01 | 11:30 | 13:25 | 115 | 1726 | 6 | 0.002 | | Yes | |
| 4 | 4308 | Lab | Central | 2017-03-080 | 7 | 14.56 | 11:38 | 13:51 | 133 | 1936 | 12 | 0.003 | | Yes | |
| 4 | 4306 | Lab | Central | 2017-03-081 | 8 | 15.08 | 11:45 | 13:47 | 122 | 1840 | 4 | 0.001 | | Yes | |
| 4 | 4302 | Lab | Central | 2017-03-082 | 1 | 15.11 | 12:24 | 14:28 | 124 | 1874 | 8 | 0.002 | | Yes | |
| 4 | 4323A | Hallway | Central | 2017-03-083 | 2 | 15.06 | 12:30 | 14:33 | 123 | 1852 | 3 | 0.001 | | Yes | High traffic area. |
| 4 | 4366 | Lab | Central | 2017-03-084 | 5 | 15.05 | 12:49 | 14:37 | 108 | 1625 | 6 | 0.002 | | Yes | Vacant |
| 4 | 4368 | Lab | Central | 2017-03-085 | 6 | 14.03 | 12:51 | 14:42 | 111 | 1557 | 5 | 0.002 | | Yes | |
| 4 | 4369K | Hallway | Central | 2017-03-086 | 3 | 15.02 | 13:14 | 14:48 | 94 | 1412 | 19 | 0.006 | | Yes | High traffic area. |
| 4 | 4255K | Hallway | Central | 2017-03-087 | 4 | 14.97 | 13:21 | 14:51 | 90 | 1347 | 11 | 0.004 | | Yes | High traffic area. |

| Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 4, University of Toronto, March 15, 2017 | | | | | | | | | | | | | | | |
|--|------------------|-------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
| 4 | 4322K | Hallway | Central | 2017-03-088 | 9 | 15.06 | 13:34 | 14:57 | 83 | 1250 | 4 | 0.002 | | Yes | High traffic area. |
| 4 | 4309 | Lab | Central | 2017-03-089 | 10 | 15.01 | 13:41 | 14:57 | 86 | 1291 | 3 | 0.001 | | Yes | |
| 4 | 4374K | Hallway | Central | 2017-03-090 | 7 | 14.56 | 14:05 | 15:22 | 77 | 1121 | 14 | 0.006 | | Yes | High traffic area. |
| 4 | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-091 | 8 | 15.08 | 14:11 | 15:40 | 89 | 1342 | 3 | 0.001 | | Yes | Exterior sample for comparison. |
| 4 | Field blank | NA | NA | 2017-03-092 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 4 | Field Blank | NA | NA | 2017-03-093 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 4 | Field Blank | NA | NA | 2017-03-094 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 4 | Field Blank | NA | NA | 2017-03-095 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| <div> <div> Safetech Environmental Limtied 3045 Southcreek Road, #14 Mississauga, Ontario L4X 2X7 Tel: 905 624-2722 www.safetechenv.com </div> <div> <p><u>Interpretation of Results</u></p> <p>1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.</p> <p>2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.</p> </div> <div>  </div> </div> | | | | | | | | | | | | | | | |

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 1, University of Toronto, March 14, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------|-----------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|--------------|---------|--------------------------|---|
| 1 | 1123 | Vacant | Central | 2017-03-048 | 1 | 15.03 | 10:28 | 12:21 | 113 | 1698 | 24 | 0.007 | SC/GS | Yes | Next to construction site. Increased particulate loading on sample. |
| 1 | 1105K | Hallway | Central | 2017-03-049 | 2 | 15.01 | 10:35 | 12:13 | 98 | 1471 | 8.5 | 0.003 | SC/GS | Yes | High traffic area. Moderate particulate loading on sample. |
| 1 | 1106 | Conference Room | Central | 2017-03-050 | 3 | 14.96 | 10:39 | 12:27 | 108 | 1616 | 30 | 0.009 | SC/GS | Yes | Moderate particulate loading on sample. |
| 1 | 1132 | Office | Central | 2017-03-051 | 4 | 15.01 | 10:51 | 12:30 | 101 | 1516 | 3 | 0.001 | SC/GS | Yes | |
| 1 | 1137K | Hallway | Central | 2017-03-052 | 5 | 15.02 | 11:05 | 12:41 | 96 | 1442 | 20 | 0.007 | SC/GS | Yes | High traffic area. Moderate particulate loading on sample. |
| 1 | 1146 | Conference Room | Central | 2017-03-053 | 6 | 13.79 | 11:11 | 12:43 | 92 | 1269 | 36.5 | 0.014 | SC/GS | Yes | |
| 1 | 1164 | Dissection Room | Central | 2017-03-054 | 7 | 14.56 | 11:21 | 12:52 | 91 | 1325 | 3 | 0.001 | SC/GS | Yes | |
| 1 | 1182K | Hallway | Central | 2017-02-055 | 8 | 15 | 11:26 | 12:55 | 89 | 1335 | 13 | 0.005 | SC/GS | Yes | High traffic area-increased particulate loading on sample. |
| 1 | 1130K | Hallway | Central | 2017-03-056 | 9 | 15.04 | 11:38 | 13:24 | 106 | 1594 | 11.5 | 0.003 | SC/GS | Yes | High traffic area-increased particulate loading on sample. |
| 1 | 1240 | Office | Central | 2017-03-057 | 10 | 15.04 | 11:51 | 13:26 | 95 | 1428 | 4 | 0.001 | SC/GS | Yes | |
| 6 | 1147 | Men's Bathroom | Central | 2017-03-058 | 8 | 15 | 13:12 | 14:22 | 119 | 1785 | 13.5 | 0.004 | SC/GS | Yes | Next to construction site. Increased particulate loading on sample. |
| 6 | 1232 | Elevator Lobby | Central | 2017-03-059 | 7 | 14.56 | 13:21 | 15:03 | 103 | 1500 | 9 | 0.003 | SC/GS | Yes | High traffic area. Moderate particulate loading on sample. |
| 6 | 1245K | Hallway | Central | 2017-03-060 | 1 | 15.03 | 13:44 | 15:30 | 106 | 1593 | 7 | 0.002 | SC/GS | Yes | High traffic area. |
| 6 | 1378K | Hallway | Central | 2017-03-061 | 2 | 15.01 | 13:50 | 15:32 | 102 | 1531 | 6 | 0.002 | SC/GS | High traffic area. | High traffic area. |
| 6 | 1370S | Hallway | Central | 2017-03-062 | 3 | 14.96 | 13:56 | 15:39 | 103 | 1456 | 2.5 | 0.001 | SC/GS | Yes | High traffic area. |
| 6 | 1279C | Lab | Central | 2017-03-063 | 4 | 15.01 | 14:05 | 15:41 | 96 | 1441 | 2 | 0.001 | SC/GS | Yes | |

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 1, University of Toronto, March 14, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|-------------|-----------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 6 | 1370K | Hallway | Central | 2017-03-064 | 5 | 15.02 | 14:11 | 15:43 | 92 | 1382 | 5 | 0.002 | SC/GS | Yes | High traffic area. |
| 6 | 1381K | Hallway | Central | 2017-03-065 | 6 | 13.79 | 14:22 | 15:46 | 84 | 1158 | 2.5 | 0.001 | SC/GS | Yes | High traffic area. |
| 6 | 1356 | Classroom | Central | 2017-03-066 | 9 | 15.04 | 14:30 | 15:56 | 86 | 1293 | 3 | 0.001 | SC/GS | Yes | |
| 6 | Exterior Control | Outdoors | Outside Medical Sciences Building | 2017-03-067 | 10 | 15.04 | 14:40 | 16:30 | 110 | 1654 | 3 | 0.001 | SC/GS | Yes | Exterior sample for comparison. |
| 6 | Field blank | NA | NA | 2017-03-068 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-069 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| | Field Blank | NA | NA | 2017-03-070 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| | Field Blank | NA | NA | 2017-03-071 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.

2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.



Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 7, University of Toronto, March 13, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------|-----------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|--------------|---------|--------------------------|--------------------|
| 7 | 7326 | Lab | Central | 2017-03-024 | 1 | 15.03 | 10:27 | 12:13 | 106 | 1593 | 13.5 | 0.004 | SC/GS | Yes | |
| 7 | 7342 | Lab | Central | 2017-03-025 | 2 | 15.01 | 10:43 | 12:18 | 105 | 1576 | 2.5 | 0.001 | SC/GS | Yes | |
| 7 | 7344 | Lab | Central | 2017-03-026 | 3 | 15.01 | 10:56 | 12:36 | 100 | 1501 | 3.5 | 0.001 | SC/GS | Yes | |
| 7 | 7345 | Lab | Central | 2017-03-027 | 4 | 15.01 | 11:02 | 12:41 | 99 | 1486 | 2.5 | 0.001 | SC/GS | Yes | |
| 7 | 7358 | Lab | Central | 2017-03-028 | 5 | 15 | 11:16 | 13:12 | 116 | 1740 | 3 | 0.001 | SC/GS | Yes | |
| 7 | 7374K | Hallway | Central | 2017-03-029 | 6 | 15 | 11:23 | 13:14 | 111 | 1665 | 3 | 0.001 | SC/GS | Yes | High traffic area. |
| 7 | 7239K | Hallway | Central | 2017-03-030 | 7 | 14.76 | 11:34 | 13:37 | 123 | 1815 | 2.5 | 0.001 | SC/GS | Yes | High traffic area. |
| 7 | 7256 | Lab | Central | 2017-03-031 | 8 | 14.99 | 11:40 | 13:38 | 118 | 1769 | 2 | 0.001 | SC/GS | Yes | |
| 7 | 7259 | Instrument Room | Central | 2017-03-032 | 9 | 14.99 | 11:49 | 14:03 | 134 | 2009 | 2 | 0.001 | SC/GS | Yes | |
| 7 | 7271 | Student Room | Central | 2017-03-033 | 10 | 15 | 11:53 | 14:06 | 133 | 1995 | 5 | 0.001 | SC/GS | Yes | |
| 7 | 7235 | Men's Bathroom | Central | 2017-03-034 | 1 | 15.03 | 12:23 | 14:12 | 109 | 1638 | 9.5 | 0.003 | SC/GS | Yes | High traffic Area. |
| 7 | 7231 | Conference Room | Central | 2017-03-035 | 2 | 15.01 | 12:36 | 14:40 | 124 | 1861 | 1.5 | 0.001 | SC/GS | Yes | |
| 7 | 7214 | Lab | Central | 2017-03-036 | 3 | 15.01 | 12:50 | 14:45 | 115 | 1726 | 2 | 0.001 | SC/GS | Yes | |
| 7 | 7217 | Student Room | Central | 2017-03-037 | 4 | 15.01 | 12:55 | 14:49 | 114 | 1711 | 7.5 | 0.002 | SC/GS | Yes | High traffic Area. |
| 7 | 7207 | Office | Central | 2017-03-038 | 5 | 15 | 13:27 | 14:53 | 86 | 1290 | 3.5 | 0.001 | SC/GS | Yes | |
| 7 | 7202 | Lab | Central | 2017-03-039 | 6 | 15 | 13:32 | 14:56 | 84 | 1260 | 3 | 0.001 | SC/GS | Yes | |

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 7, University of Toronto, March 13, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|----------|----------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 7 | 7307 | Lab | Central | 2017-03-040 | 7 | 14.76 | 13:53 | 15:02 | 69 | 1018 | 3 | 0.001 | SC/GS | Yes | |
| 7 | 7308 | Lab | Central | 2017-03-041 | 8 | 14.99 | 13:59 | 15:09 | 70 | 1049 | 2 | 0.001 | SC/GS | Yes | |
| 7 | 7234 | Elevator Lobby | C | 2017-03-042 | 1 | 15.03 | 14:15 | 15:24 | 69 | 1037 | 5 | 0.002 | SC/GS | Yes | High traffic Area. |
| 7 | Exterior | Control Sample | NA | 2017-03-043 | 9 | 14.99 | 14:23 | 15:30 | 67 | 1004 | 2 | 0.001 | SC/GS | Yes | For comparison purposes. |
| 7 | Blank | NA | NA | 2017-03-044 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 7 | Blank | NA | NA | 2017-03-045 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 7 | Blank | NA | NA | 2017-03-046 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 7 | Blank | NA | NA | 2017-03-047 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results
1) Within Ontario, the Occupational Health and Safety Act - Ontario Regulation 490/09 Designated Substances adopts the ACGIH TWA of 0.1 fibres/cc.

2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 6, University of Toronto, March 10, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|-------|----------------|-----------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|--------------|---------|--------------------------|--------------------|
| 6 | 6336 | Lab | South | 2017-03-001 | 9 | 15 | 9:47 | 11:19 | 92 | 1380 | 5.5 | 0.002 | SC/GS | Yes | |
| 6 | 6342 | Lab | Central | 2017-03-002 | 10 | 15 | 9:48 | 11:05 | 77 | 1155 | 2 | 0.001 | SC/GS | Yes | |
| 6 | 6344 | Lab | South | 2017-03-003 | 5 | 15.01 | 9:45 | 11:10 | 85 | 1276 | 2 | 0.001 | SC/GS | Yes | |
| 6 | 6234 | Elevator Lobby | Central | 2017-03-004 | 3 | 15 | 9:52 | 11:18 | 86 | 1290 | 7.5 | 0.003 | SC/GS | Yes | High traffic area. |
| 6 | 6326 | Lab | Central | 2017-03-005 | 4 | 15.02 | 9:57 | 11:24 | 87 | 1307 | 3 | 0.001 | SC/GS | Yes | |
| 6 | 6218 | Lab | Central | 2017-03-006 | 6 | 14.97 | 10:08 | 11:40 | 92 | 1377 | 3.5 | 0.001 | SC/GS | Yes | |
| 6 | 6209 | Office | South | 2017-03-007 | 7 | 14.8 | 10:15 | 11:49 | 94 | 1391 | 4 | 0.001 | SC/GS | Yes | |
| 6 | 6221K | Hallway | Central | 2017-02-008 | 2 | 15.03 | 10:16 | 11:50 | 94 | 1413 | 12 | 0.004 | SC/GS | Yes | High traffic area. |
| 6 | 6205 | Student Room | Central | 2017-03-009 | 1 | 15 | 10:21 | 11:52 | 91 | 1365 | 4 | 0.001 | SC/GS | Yes | |
| 6 | 6230 | Lab | Central | 2017-03-010 | 8 | 14.78 | 10:21 | 12:07 | 105 | 1552 | 2.5 | 0.001 | SC/GS | Yes | |
| 6 | 6345B | Student Room | Central | 2017-03-011 | 7 | 14.8 | 12:19 | 14:22 | 123 | 1820 | 9 | 0.002 | SC/GS | Yes | |
| 6 | 6374K | Hallway | Central | 2017-03-012 | 1 | 14.99 | 12:35 | 14:26 | 111 | 1664 | 2.5 | 0.001 | SC/GS | Yes | |
| 6 | 6270 | Lab | Central | 2017-03-013 | 2 | 15.03 | 12:43 | 14:30 | 107 | 1608 | 3.5 | 0.001 | SC/GS | Yes | |
| 6 | 6254 | Lab | Central | 2017-03-014 | 6 | 14.97 | 12:55 | 14:36 | 101 | 1512 | 6 | 0.002 | SC/GS | Yes | |
| 6 | 6259 | Office | Central | 2017-03-015 | 5 | 15.01 | 13:03 | 14:40 | 97 | 1456 | 2.5 | 0.001 | SC/GS | Yes | |

Phase Contrast Microscopy Air Sampling Program, Medical Sciences Building, Floor 6, University of Toronto, March 10, 2017

| Floor | Room | Description | Sample Location | Sample Number | Pump Number | Litres Per Minute | Time On | Time Off | Duration | Total Litres | Total Fibres | Results f/cc | Analyst | Within Acceptable Limits | Comments |
|-------|------------------|----------------|------------------------------------|---------------|-------------|-------------------|---------|----------|----------|--------------|--------------|----------------|----------------|--------------------------|------------------------------------|
| 6 | 6239K | Hallway | Central | 2017-03-016 | 4 | 15.02 | 13:10 | 14:47 | 97 | 1457 | 5 | 0.002 | SC/GS | Yes | Next to construction site. |
| 6 | 6355C | Office | Central | 2017-03-017 | 8 | 15.03 | 13:20 | 14:54 | 94 | 1413 | 2 | 0.001 | SC/GS | Yes | |
| 6 | 6235 | Men's Bathroom | Central | 2017-03-018 | 3 | 15 | 13:48 | 15:20 | 92 | 1380 | 2.5 | 0.001 | SC/GS | Yes | |
| 6 | Exterior Control | Outdoors | Outside Medical Sciences Buiilding | 2017-03-019 | 3 | 15 | 13:58 | 15:25 | 87 | 1305 | 1 | 0.001 | SC/GS | Yes | Exterior sample for comparison. |
| 6 | Field Blank | NA | NA | 2017-03-020 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-021 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-022 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |
| 6 | Field Blank | NA | NA | 2017-03-023 | NA | NA | NA | NA | NA | NA | 0 | Not applicable | Not applicable | Not applicable | Required as per NIOSH Method 7400. |

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Interpretation of Results

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2) For each area tested compare the "Results f/cc" column to your area and how it compares to the above noted regulation.

TABLE I
Results of Air Testing
University of Toronto – Medical Sciences Building
1 King's College Circle, Toronto, Ontario
February 5th, 2017

| Sample No. | Sample Location | Start Time | Stop Time | Sample Volume (L) | Airborne Fibre Conc. (f/cc) |
|-------------|-----------------|------------|-----------|-------------------|-----------------------------|
| 2017-02-014 | Room 6360 | 10:05 | 11:25 | 1200 | 0.002 |
| 2017-02-015 | Room 7366 | 10:10 | 11:25 | 1125 | <0.002 |
| 2017-02-016 | Room 7368 | 10:12 | 10:27 | 1125 | 0.003 |

TABLE II
Results of Air Testing
University of Toronto – Medical Sciences Building
1 King's College Circle, Toronto, Ontario
February 6th, 2017

| Sample No. | Sample Location | Start Time | Stop Time | Sample Volume (L) | Airborne Fibre Conc. (f/cc) |
|-------------|-----------------|------------|-----------|-------------------|-----------------------------|
| 2017-02-023 | Room 6360 | 12:44 | 1:57 | 1095 | <0.0024 |
| 2017-02-024 | Room 7366 | 11:50 | 1:05 | 1125 | <0.0023 |
| 2017-02-025 | Room 7368 | 11:57 | 1:15 | 1170 | 0.003 |

TABLE III
Results of Air Testing
University of Toronto – Medical Sciences Building
1 King's College Circle, Toronto, Ontario
February 25th, 2017

| Sample No. | Sample Location | Start Time | Stop Time | Sample Volume (L) | Airborne Fibre Conc. (f/cc) |
|-------------|-----------------|------------|-----------|-------------------|-----------------------------|
| 2017-02-084 | Room 6334 | 8:25 | 9:32 | 1005 | <0.0023 |
| 2017-02-085 | Room 6334 | 8:25 | 9:32 | 1005 | <0.0023 |

TABLE IV
Results of Air Testing
University of Toronto – Medical Sciences Building
1 King's College Circle, Toronto, Ontario
March 1st, 2017

| Sample No. | Sample Location | Start Time | Stop Time | Sample Volume (L) | Airborne Fibre Conc. (f/cc) |
|-------------|--------------------------------|------------|-----------|-------------------|-----------------------------|
| 2017-03-002 | Room 6334 Adjacent to shaft | 11:50 | 12:57 | 1005 | <0.0027 |
| 2017-03-003 | Centre of Room 6334 | 11:50 | 12:57 | 1005 | <0.0027 |

TABLE V
Results of Air Testing
University of Toronto – Medical Sciences Building
1 King's College Circle, Toronto, Ontario
March 7th, 2017

| Sample No. | Sample Location | Start Time | Stop Time | Sample Volume (L) | Airborne Fibre Conc. (f/cc) |
|-------------|--|------------|-----------|-------------------|-----------------------------|
| 2017-03-016 | Room 6334 Adjacent to Shaft Door | 3:21 | 4:28 | 1005 | <0.0026 |
| 2017-03-017 | Centre of Room 6334 | 3:21 | 4:28 | 1005 | <0.0026 |
| 2017-03-018 | Room 6238 Adjacent to Orbit Shaker | 4:35 | 5:42 | 1005 | <0.0026 |
| 2017-03-019 | Room 6238 Adjacent to Thermo Controller | 4:35 | 5:42 | 1005 | <0.0026 |

TABLE VI
Results of Air Testing
University of Toronto – Medical Sciences Building
1 King's College Circle, Toronto, Ontario
March 20th and 21st, 2017

| Sample No. | Sample Location | Start Time | Stop Time | Sample Volume (L) | Airborne Fibre Conc. (f/cc) |
|-------------|---------------------|------------|-----------|-------------------|-----------------------------|
| 2017-03-166 | Office (Room 3336B) | 12:50 | 14:02 | 1080 | 0.003 |
| 2017-03-186 | Office (Room 3336B) | 16:00 | 17:40 | 1500 | 0.002 |
| 2017-03-187 | Lab (3336) | 16:02 | 17:42 | 1500 | 0.002 |

TABLE VI
Results of Air Testing
University of Toronto – Medical Sciences Building
1 King's College Circle, Toronto, Ontario
March 21st, 2017

| Sample No. | Sample Location | Start Time | Stop Time | Sample Volume (L) | Airborne Fibre Conc. (f/cc) |
|-------------|---------------------|------------|-----------|-------------------|-----------------------------|
| 2017-03-190 | Office (Room 6360A) | 17:00 | 18:17 | 1157 | 0.004 |

TABLE VII
Results of Air Testing
University of Toronto – Medical Sciences Building
1 King's College Circle, Toronto, Ontario
March 24th, 2017

| Sample No. | Sample Location | Start Time | Stop Time | Sample Volume (L) | Airborne Fibre Conc. (f/cc) |
|-------------|------------------------|------------|-----------|-------------------|-----------------------------|
| 2017-03-238 | Laboratory (Room 6328) | 18:09 | 19:21 | 1080 | 0.002 |

Appendix B

PCM AIR SAMPLE SPREADSHEET-OTHERS

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|---|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms 6302A, 6306, 6306A, 6308, 6308A, 6308B, 6316, 6316A, 6318, 6318A & 6318B |
| Client: | University of Toronto | Shift Date: | November 25, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-3 | Nov. 25, 2016 | Ambient: East Side of Hallway adjacent to Work Area | 60 | 901.2 | <0.05 |
| 21191-4 | Nov. 25, 2016 | Ambient: West Side of Hallway adjacent to Work Area | 61 | 917.4 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|---|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms 6302A, 6306, 6306A, 6308, 6308A, 6308B, 6316, 6316A, 6318, 6318A & 6318B. |
| Client: | University of Toronto | Shift Date: | November 23, 2016 |
| Project Location: | Medical Sciences Building, 1King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-5 | Nov. 28, 2016 | Ambient: East Side of Hallway adjacent to Work Area | 62 | 931.2 | <0.05 |
| 21191-6 | Nov. 28, 2016 | Ambient: West Side of Hallway adjacent to Work Area | 61 | 917.4 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms 6302A, 6306, 6306A, 6308, 6308A, 6308B, 6316, 6316A, 6318, 6318A & 6318B. |
| Client: | University of Toronto | Shift Date: | November 30, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-7 | Nov. 30, 2016 | Ambient: East Side of Hallway adjacent to Work Area | 61 | 916.2 | <0.05 |
| 21191-8 | Nov. 30, 2016 | Ambient: West Side of Hallway adjacent to Work Area | 60 | 902.4 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 3 rd Floor, Rooms 3334, 3334A, 3334B, 3326, 3326A, and 3326B. |
| Client: | University of Toronto | Shift Date: | December 21, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-53 | Dec. 21, 2016 | Ambient: East Side of Hallway adjacent to Work Area | 61 | 915.6 | <0.05 |
| 21191-54 | Dec. 21, 2016 | Ambient: West Side of Hallway adjacent to Work Area | 61 | 915.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms 6302A, 6306, 6306A, 6308, 6308A, 6308B, 6316, 6316A, 6318, 6318A & 6318B. |
| Client: | University of Toronto | Shift Date: | December 2, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------|---------------|---|-------------------------|-----------------------------|--|
| 21191-11 | Dec. 2, 2016 | Ambient: East Side of Hallway adjacent to Work Area | 62 | 930.6 | <0.05 |
| 21191-12 | Dec. 2, 2016 | Ambient: West Side of Hallway adjacent to Work Area | 61 | 915.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|---|
| OHE Project No.: | 21191 | Work Area | 7 th Floor, Rooms 7334, 7334A, 7334B, 7336, 7336A, 7336B and 7327. |
| Client: | University of Toronto | Shift Date: | December 2, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-13 | Dec. 2, 2016 | Ambient: East Hallway Adjacent to Work Area | 60 | 901.2 | <0.05 |
| 21191-14 | Dec. 2, 2016 | Ambient: West Side of South Hallway Adjacent to Work Area | 62 | 932.5 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 7 th Floor, Rooms 7334, 7334A, 7334B, 7336, 7336A and 7336B |
| Client: | University of Toronto | Shift Date: | December 7, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-26 | Dec. 7, 2016 | Ambient: East Hallway Adjacent to Work Area | 60 | 901.2 | <0.05 |
| 21191-27 | Dec. 7, 2016 | Ambient: West Side of South Hallway Adjacent to Work Area | 61 | 917.4 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms 6302A, 6306, 6306A, 6308, 6308A, 6308B, 6316, 6316A, 6318, 6318A & 6318B. |
| Client: | University of Toronto | Shift Date: | December 5, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------|---------------|---|-------------------------|-----------------------------|--|
| 21191-17 | Dec. 5, 2016 | Ambient: East Side of Hallway adjacent to Work Area | 61 | 915.6 | <0.05 |
| 21191-18 | Dec. 5, 2016 | Ambient: West Side of Hallway adjacent to Work Area | 61 | 915.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 7 th Floor, Rooms 7334, 7334A, 7334B, 7336, 7336A and 7336B |
| Client: | University of Toronto | Shift Date: | December 10, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-33 | Dec. 10, 2016 | Ambient: East Hallway Adjacent to Work Area | 62 | 931.2 | <0.05 |
| 21191-34 | Dec. 10, 2016 | Ambient: West Side of South Hallway Adjacent to Work Area | 62 | 932.5 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms 6302A, 6306, 6306A, 6308, 6308A, 6308B, 6316, 6316A, 6318, 6318A & 6318B. |
| Client: | University of Toronto | Shift Date: | December 7, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------|---------------|---|-------------------------|-----------------------------|--|
| 21191-24 | Dec. 7, 2016 | Ambient: East Side of Hallway adjacent to Work Area | 62 | 930.6 | <0.05 |
| 21191-25 | Dec. 7, 2016 | Ambient: West Side of Hallway adjacent to Work Area | 62 | 930.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 7 th Floor, Rooms 7334, 7334A, 7334B, 7336, 7336A and 7336B |
| Client: | University of Toronto | Shift Date: | December 12, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-37 | Dec. 12, 2016 | Ambient: East Hallway Adjacent to Work Area | 63 | 945.6 | <0.05 |
| 21191-38 | Dec. 12, 2016 | Ambient: West Side of South Hallway Adjacent to Work Area | 63 | 945.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 7 th Floor, Rooms 7334, 7334A, 7334B, 7336, 7336A and 7336B |
| Client: | University of Toronto | Shift Date: | December 14, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-41 | Dec. 14, 2016 | Ambient: East Hallway Adjacent to Work Area | 65 | 975.6 | <0.05 |
| 21191-42 | Dec. 14, 2016 | Ambient: West Side of South Hallway Adjacent to Work Area | 65 | 975.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms 6302A, 6306, 6306A, 6308, 6308A, 6308B, 6316, 6316A, 6318, 6318A & 6318B. |
| Client: | University of Toronto | Shift Date: | December 12, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------|---------------|---|-------------------------|-----------------------------|--|
| 21191-39 | Dec. 12, 2016 | Ambient: East Side of Hallway adjacent to Work Area | 61 | 915.6 | <0.05 |
| 21191-40 | Dec. 12, 2016 | Ambient: West Side of Hallway adjacent to Work Area | 61 | 917.4 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms 6302A, 6306, 6306A, 6308, 6308A, 6308B, 6316, 6316A, 6318, 6318A & 6318B. |
| Client: | University of Toronto | Shift Date: | December 10, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------|---------------|---|-------------------------|-----------------------------|--|
| 21191-35 | Dec. 10, 2016 | Ambient: East Side of Hallway adjacent to Work Area | 61 | 915.6 | <0.05 |
| 21191-36 | Dec. 10, 2016 | Ambient: West Side of Hallway adjacent to Work Area | 61 | 915.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms 6302A, 6306, 6306A, 6308, 6308A, 6308B, 6316, 6316A, 6318, 6318A & 6318B. |
| Client: | University of Toronto | Shift Date: | December 14, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------|---------------|---|-------------------------|-----------------------------|--|
| 21191-43 | Dec. 14, 2016 | Ambient: East Side of Hallway adjacent to Work Area | 62 | 931.2 | <0.05 |
| 21191-44 | Dec. 14, 2016 | Ambient: West Side of Hallway adjacent to Work Area | 63 | 947.5 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 3 rd Floor, Rooms 3334, 3334A, 3334B, 3326, 3326A and 3326B |
| Client: | University of Toronto | Shift Date: | December 27, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------|-------------------|--|-------------------------|-----------------------------|--|
| 21191-55 | December 27, 2016 | Ambient: West Side of Hallway, Adjacent to Work Area | 62 | 938.87 | <0.05 |
| 21191-56 | December 27, 2016 | Ambient: East Side of Hallway, Adjacent to Work Area | 62 | 938.80 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; "<" denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Koena Thoahlane, Junior Project Specialist

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 3 rd Floor, Rooms 3334, 3334A, 3334B, 3326, 3326A and 3326B |
| Client: | University of Toronto | Shift Date: | December 28, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------|-------------------|--|-------------------------|-----------------------------|--|
| 21191-57 | December 28, 2016 | Ambient: West Side of Hallway, Adjacent to Work Area | 60 | 905.04 | <0.05 |
| 21191-58 | December 28, 2016 | Ambient: East Side of Hallway, Adjacent to Work Area | 60 | 910.02 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; "<" denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Koena Thoahlane, Junior Project Specialist

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 3 rd Floor, Rooms 3334, 3334A, 3334B, 3326, 3326A and 3326B |
| Client: | University of Toronto | Shift Date: | December 29, 2016 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|-------------------|--|-------------------------|-----------------------------|--|
| 21191-59 | December 29, 2016 | Ambient: West Side of Hallway, Adjacent to Work Area | 62 | 935.21 | <0.05 |
| 21191-60 | December 29, 2016 | Ambient: East Side of Hallway, Adjacent to Work Area | 62 | 940.35 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Koena Thoahlane, Junior Project Specialist

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 3 rd Floor, Rooms 3334, 3334A, 3334B, 3326, 3326A and 3326B |
| Client: | University of Toronto | Shift Date: | January 4, 2017 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|-----------------|--|-------------------------|-----------------------------|--|
| 21191-61 | January 4, 2017 | Ambient: West Side of Hallway, Adjacent to Work Area | 62 | 930.62 | <0.05 |
| 21191-62 | January 4, 2017 | Ambient: East Side of Hallway, Adjacent to Work Area | 63 | 945.00 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|---|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms: 6305, 6307, 6307A, 6311, 6315, 6315A, 6317, 6317A, 6317B, 6321 & 6321A. |
| Client: | University of Toronto | Shift Date: | January 11, 2017 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-70 | Jan. 11, 2017 | Ambient: East side of hallway adjacent to Work Area | 61 | 916.2 | <0.05 |
| 21191-71 | Jan. 11, 2017 | Ambient: West side of hallway adjacent to Work Area | 63 | 947.5 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|---|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms: 6305, 6307, 6307A, 6311, 6315, 6315A, 6317, 6317A, 6317B, 6321 & 6321A. |
| Client: | University of Toronto | Shift Date: | January 13, 2017 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-72 | Jan.13, 2017 | Ambient: East side of hallway adjacent to Work Area | 63 | 945.6 | <0.05 |
| 21191-73 | Jan.13, 2017 | Ambient: West side of hallway adjacent to Work Area | 62 | 930.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|---|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms: 6305, 6307, 6307A, 6311, 6315, 6315A, 6317, 6317A, 6317B, 6321 & 6321A. |
| Client: | University of Toronto | Shift Date: | January 16, 2017 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-74 | Jan.16, 2017 | Ambient: East side of hallway adjacent to Work Area | 62 | 930.6 | <0.05 |
| 21191-75 | Jan.16, 2017 | Ambient: West side of hallway adjacent to Work Area | 62 | 930.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|---|--------------------|---|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms: 6305, 6307, 6307A, 6311, 6315, 6315A, 6317, 6317A, 6317B, 6321 & 6321A. |
| Client: | University of Toronto | Shift Date: | January 18, 2017 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-76 | Jan.18, 2017 | Ambient: East side of hallway adjacent to Work Area | 62 | 930.6 | <0.05 |
| 21191-77 | Jan.18, 2017 | Ambient: West side of hallway adjacent to Work Area | 63 | 945.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|---|--------------------|---|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms: 6305, 6307, 6307A, 6311, 6315, 6315A, 6317, 6317A, 6317B, 6321 & 6321A. |
| Client: | University of Toronto | Shift Date: | January 20, 2017 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------------|---------------|---|-------------------------|-----------------------------|--|
| 21191-78 | Jan.20, 2017 | Ambient: East side of hallway adjacent to Work Area | 61 | 916.2 | <0.05 |
| 21191-79 | Jan.20, 2017 | Ambient: West side of hallway adjacent to Work Area | 61 | 917.4 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms 6305, 6307, 6307A, 6311, 6315, 6315A, 6317, 6317A, 6317B, 6321 & 6321A. |
| Client: | University of Toronto | Shift Date: | January 23, 2017 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Time (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|----------|------------------|--|-------------------------|-----------------------------|--|
| 21191-80 | January 23, 2017 | Ambient: East Side of Hallway, Adjacent to Work Area | 63 | 946.26 | <0.05 |
| 21191-81 | January 23, 2017 | Ambient: West Side of Hallway, Adjacent to Work Area | 63 | 947.52 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Koena Thoahlane, Project Specialist

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|---|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Rooms: 6360, 6352, 6350, 6359, and 6253. |
| Client: | University of Toronto | Shift Date: | February 1, 2017 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. |

| Sample # | Sampling Date | Sampling Location | Sampling Times | Sampling Duration (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------|------------------|--------------------------------|--------------------|-----------------------------|-----------------------------|--|
| 21191-92 | February 1, 2017 | Ambient Pre-cleanup: Room 6360 | 2:58 PM to 3:58 PM | 60 | 900.6 | <0.05 |
| 21191-93 | February 1, 2017 | Ambient: Room 6352 | 3:00 PM to 4:00 PM | 60 | 900.0 | <0.05 |
| 21191-94 | February 1, 2017 | Ambient: Room 6350 | 3:02 PM to 4:03 PM | 61 | 916.2 | <0.05 |
| 21191-95 | February 1, 2017 | Ambient: Room 6359 | 3:04 PM to 4:05 PM | 61 | 917.4 | <0.05 |
| 21191-100 | February 1, 2017 | Ambient: Room 6253 | 5:00 PM to 6:01 PM | 61 | 916.2 | <0.05 |
| 21191-103 | February 1, 2017 | Post-cleanup: Room 6360 | 8:05 PM to 9:05 PM | 60 | 900.0 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; " < " denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 7 th Floor, Rooms 7368, 7358, 7360, 7367 and 7366 |
| Client: | University of Toronto | Shift Date: | February 1, 2017 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Envirosafe Inc. |

| Sample # | Sampling Date | Sampling Location | Sampling Times | Sampling Duration (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------|------------------|-----------------------------------|--------------------|-----------------------------|-----------------------------|--|
| 21191-96 | February 1, 2017 | Ambient: Room 7368 | 4:04 PM to 5:05 PM | 61 | 916.2 | <0.05 |
| 21191-97 | February 1, 2017 | Ambient: Room 7358 | 4:05 PM to 5:05 PM | 60 | 902.4 | <0.05 |
| 21191-98 | February 1, 2017 | Ambient: Hallway by the Room 7368 | 4:06 PM to 5:07 PM | 61 | 915.6 | <0.05 |
| 21191-99 | February 1, 2017 | Ambient: Room 7360 | 4:07 PM to 5:08 PM | 61 | 915.0 | <0.05 |
| 21191-101 | February 1, 2017 | Ambient: Room 7367 | 6:10 PM to 7:10 PM | 60 | 902.4 | <0.05 |
| 21191-102 | February 1, 2017 | Ambient: Room 7360 | 6:11 PM to 7:12 PM | 61 | 915.6 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; "<" denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant

PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

| | | | |
|--------------------------|--|--------------------|--|
| OHE Project No.: | 21191 | Work Area | 6 th Floor, Room 6360 and 7 th Floor, Rooms 7368 and 7366. |
| Client: | University of Toronto | Shift Date: | February 2, 2017 |
| Project Location: | Medical Sciences Building, 1 King's College Circle, Toronto, Ontario | Contractor: | Canviro Services Corp. and EnviroSAFE Inc. |

| Sample # | Sampling Date | Sampling Location | Sampling Times | Sampling Duration (minutes) | Air Volume Sampled (Liters) | Fibre Concentration (f/cm ³) |
|-----------|------------------|--------------------------|---------------------|-----------------------------|-----------------------------|--|
| 21191-105 | February 2, 2017 | Post Cleaning, Room 6360 | 12:08 PM to 1:11 PM | 63 | 945.6 | <0.05 |
| 21191-106 | February 2, 2017 | Post Cleaning, Room 7368 | 12:15 PM to 1:19 PM | 64 | 961.3 | <0.05 |
| 21191-107 | February 2, 2017 | Post Cleaning, Room 7366 | 12:15 PM to 1:17 PM | 62 | 932.5 | <0.05 |

The concentration of airborne asbestos fibers should be less than 0.05 f/cm³ for an area to be considered suitable for occupancy.

General Notes:

1. Samples were collected on a cellulose ester membrane filter with 0.8 micrometre pore size and 25 millimetre diameter. The filter was mounted inside a three piece filter cassette with two inch conductive cowl.
2. Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
3. Limit of Detection (LOD) is 7 fibres/mm²; Limit of Quantitation (LOQ) is 100 fibres/mm²; "<" denotes less than
4. Sampling pumps are calibrated before and after the sampling period. The flow rate used to determine the volume presented on this report is the average of the two flow measurements.
5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm³ – fibers per cubic centimeter of ambient air.

Analyst: Salim Sayed, Project Consultant



Inspection Report

Project Information

| | | |
|---|---|---|
| Date: March 27, 2017 | Pinchin Representative: Christopher Richardson | Report Number: 01 Pinchin File: 203461 |
| Project Name: Medical Sciences Buildings – Ambient Air Monitoring | Site Address: 1 Kings College Circle, Toronto, Ontario | |
| Client: University of Toronto | Client File Number: N/A | |
| Contractor: N/A | Arrival on Site: 8:00am Number of Workers: N/A | |

Distribution:

cc: Irfan Miraj

Irfan.miraj@utoronto

University of Toronto

Description of Work in Progress

| Work Area | Work in Progress |
|---|---|
| Basement, 1 st , 2 nd and 3 rd Floors | Ambient Air Monitoring in Priority and Representative Areas Locations chosen either by facility occupants or randomly by Pinchin |

Samples Collected and Results, as Available

| Sample No. | Sample Type | Location/ Description | Start Time | Finish Time | Flow Rate (L/min) | Duration (Minutes) | Air Volume (L) | Total Fibres | Actual Result | Reportable Result |
|------------|-------------|-----------------------|------------|-------------|-------------------|--------------------|----------------|--------------|---------------|-------------------|
| 252852 | Blank | --- | -- | -- | -- | -- | -- | 1 | N/A | N/A |
| 252853 | Ambient | Room 1134 | 9:50 | 10:59 | 15 | 67 | 1000 | 8 | 0.004 f/cc | <0.02 f/cc |
| 252854 | Ambient | Room 1140 | 9:54 | 11:05 | 15 | 71 | 1065 | 3 | 0.001 f/cc | <0.02 f/cc |
| 252855 | Ambient | Room 1144 | 9:57 | 11:04 | 15 | 67 | 1000 | 4.5 | 0.002 f/cc | <0.02 f/cc |
| 252856 | Ambient | Room 1105 | 10:15 | 11:26 | 15 | 71 | 1065 | 3 | 0.002 f/cc | <0.02 f/cc |
| 252859 | Ambient | Room 1106 | 12:45 | 13:52 | 15 | 67 | 1000 | 3.5 | 0.001 f/cc | <0.02 f/cc |
| 252857 | Ambient | Room 1114 | 10:20 | 11:27 | 15 | 67 | 1000 | 5 | 0.001 f/cc | <0.02 f/cc |
| 252858 | Ambient | Room 1162 | 11:20 | 12:27 | 15 | 67 | 1000 | 6.5 | 0.003 f/cc | <0.02 f/cc |
| 252867 | Ambient | Room 2279 | 15:22 | 16:31 | 15 | 68 | 1020 | 7 | 0.003 f/cc | <0.02 f/cc |
| 252868 | Ambient | Room 2277 | 15:27 | 16:35 | 15 | 68 | 1020 | 6 | 0.003 f/cc | <0.02 f/cc |
| 252860 | Ambient | Outside Room 3154 | 15:00 | 16:12 | 15 | 72 | 1080 | 3.5 | 0.002 f/cc | <0.02 f/cc |
| 252864 | Blank | -- | -- | -- | -- | -- | -- | 1 | N/A | N/A |



Samples Collected and Results, as Available

| Sample No. | Sample Type | Location/Description | Start Time | Finish Time | Flow Rate (L/min) | Duration (Minutes) | Air Volume (L) | Total Fibres | Actual Result | Reportable Result |
|------------|-------------|----------------------|------------|-------------|-------------------|--------------------|----------------|--------------|---------------|-------------------|
| 252870 | Ambient | Outside Room 3172 | 15:10 | 16:20 | 15 | 70 | 1050 | 4 | 0.003 f/cc | <0.02 f/cc |
| 252865 | Ambient | Outside Room 4283 | 15:13 | 16:25 | 15 | 72 | 1080 | 6 | 0.003 f/cc | <0.02 f/cc |
| 252869 | Ambient | Room 2282 | 16:35 | 17:41 | 15 | 77 | 1155 | 5 | 0.002 f/cc | <0.02 f/cc |
| 252866 | Ambient | Room 2285 | 16:36 | 17:52 | 15 | 77 | 1155 | 8.5 | 0.004 f/cc | <0.02 f/cc |

☒ Calibration of air sampling pump checked before and after sample collection.

- | | | | | | |
|-------------------------|-------------------------------------|----------------------------------|--------------------------|-------------------|-------------------------------------|
| 1. SAMPLES & TESTING | <input checked="" type="checkbox"/> | 4. NEGATIVE PRESSURE | <input type="checkbox"/> | 7. WASTE HANDLING | <input type="checkbox"/> |
| 2. SITE ISOLATION | <input type="checkbox"/> | 5. PERSONAL PROTECTIVE EQUIPMENT | <input type="checkbox"/> | 8. CLEANING | <input type="checkbox"/> |
| 3. FACILITIES/EQUIPMENT | <input type="checkbox"/> | 6. DUST SUPPRESSION | <input type="checkbox"/> | 9. OTHER | <input checked="" type="checkbox"/> |

| Item | Comments | Action |
|------|---|--------|
| 1.1 | Two field blanks and fourteen ambient air samples were collected in areas specified by the university JHSC, and in representative areas throughout the Basement, 1 st floor, 2 nd Floor and 3 rd Floor. The samples were analyzed using the Phase Contrast Microscopy (PCM) method of analysis. All results were determined to be less than the regulated occupational exposure limit of 0.1 f/cc and less than Pinchin Ltd's action level for PCM air sampling of 0.05 f/cc. Air sampling was completed following NIOSH Method 7400 by a trained PCM analyst. The actual results (where less than the detection limit of the method) are also provided in the table above. The actual detection limit of the method based on the volumes collected is 0.02 f/cc and referenced as the reportable result. | |
| 9.1 | Pinchin will return to site in March 28, 2017 to conduct further air monitoring, | |

End of Report

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Template: Master Inspection Report for HAZ/IEQ, January 20, 2017



Inspection Report

Project Information

| | | |
|---|---|---|
| Date: March 28, 2017 | Pinchin Representative: Christopher Richardson | Report Number: 02 Pinchin File: 203461 |
| Project Name: Medical Sciences Buildings – Ambient Air Monitoring | Site Address: 1 Kings College Circle, Toronto, Ontario | |
| Client: University of Toronto | Client File Number: N/A | |
| Contractor: N/A | Arrival on Site: Number of Workers: N/A | |

Distribution:

cc: Irfan Miraj

Irfan.miraj@utoronto

University of Toronto

Description of Work in Progress

| Work Area | Work in Progress |
|--------------------|--|
| Floors 2, 3, and 4 | Ambient Air Monitoring in Representative Areas. Locations chosen either by facility staff, occupants or randomly chosen by Pinchin |

Samples Collected and Results, as Available

| Sample No. | Sample Type | Location/ Description | Start Time | Finish Time | Flow Rate (L/min) | Duration (Minutes) | Air Volume (L) | Total Fibres | Actual Result f/cc of air | Reportable Result f/cc of air |
|------------|-------------|-----------------------|------------|-------------|-------------------|--------------------|----------------|--------------|---------------------------|-------------------------------|
| 252863 | Blank | -- | -- | -- | -- | -- | -- | 1 | -- | -- |
| 252861 | Ambient | 4280 | 11:39 | 12:50 | 15 | 70 | 1050 | 3 | 0.001 | <0.02 |
| 252862 | Ambient | 4282 | 11:42 | 12:53 | 15 | 71 | 1065 | 2 | 0.009 | <0.02 |
| 252878 | Ambient | 4287 | 11:46 | 12:57 | 15 | 71 | 1065 | 3.5 | 0.002 | <0.02 |
| 252879 | Ambient | 4285 | 11:59 | 1:07 | 15 | 68 | 1020 | 5 | 0.002 | <0.02 |
| 252880 | Ambient | 4283 | 12:00 | 1:10 | 15 | 70 | 1050 | 4 | 0.002 | <0.02 |
| 252873 | Ambient | 3281 | 1:12 | 2:20 | 15 | 68 | 1020 | 3.5 | 0.002 | <0.02 |
| 252874 | Ambient | 3280 | 1:14 | 2:28 | 15 | 74 | 1110 | 8 | 0.003 | <0.02 |
| 252875 | Ambient | 3282 | 1:16 | 2:31 | 15 | 75 | 1125 | 7 | 0.003 | <0.02 |
| 252876 | Ambient | 3284 | 1:24 | 2:33 | 15 | 69 | 1035 | 4.5 | 0.002 | <0.02 |
| 252877 | Ambient | 3377 | 1:27 | 2:36 | 15 | 69 | 1035 | 6 | 0.003 | <0.02 |
| 252890 | Blank | -- | -- | -- | -- | -- | -- | 1 | -- | <0.02 |



Samples Collected and Results, as Available

| Sample No. | Sample Type | Location/Description | Start Time | Finish Time | Flow Rate (L/min) | Duration (Minutes) | Air Volume (L) | Total Fibres | Actual Result f/cc of air | Reportable Result f/cc of air |
|------------|-------------|----------------------|------------|-------------|-------------------|--------------------|----------------|--------------|---------------------------|-------------------------------|
| 252885 | Ambient | 2281 | 3:15 | 4:28 | 15 | 73 | 1095 | 1.5 | 0.0006 | <0.02 |
| 252886 | Ambient | 2283 | 3:17 | 4:30 | 15 | 73 | 1095 | 9 | 0.004 | <0.02 |
| 252887 | Ambient | 2180 | 3:27 | 4:38 | 15 | 71 | 1065 | 5 | 0.002 | <0.02 |
| 252888 | Ambient | 2178 | 3:27 | 4:39 | 15 | 72 | 1080 | 3.5 | 0.002 | <0.02 |
| 252889 | Ambient | 2179 | 3:28 | 4:40 | 15 | 72 | 1080 | 6 | 0.003 | <0.02 |

☒ Calibration of air sampling pump checked before and after sample collection.

- | | | | | | |
|-------------------------|-------------------------------------|----------------------------------|--------------------------|-------------------|-------------------------------------|
| 1. SAMPLES & TESTING | <input checked="" type="checkbox"/> | 4. NEGATIVE PRESSURE | <input type="checkbox"/> | 7. WASTE HANDLING | <input type="checkbox"/> |
| 2. SITE ISOLATION | <input type="checkbox"/> | 5. PERSONAL PROTECTIVE EQUIPMENT | <input type="checkbox"/> | 8. CLEANING | <input type="checkbox"/> |
| 3. FACILITIES/EQUIPMENT | <input type="checkbox"/> | 6. DUST SUPPRESSION | <input type="checkbox"/> | 9. OTHER | <input checked="" type="checkbox"/> |

| Item | Comments | Action |
|------|---|--------|
| 1.1 | Two field blanks and fifteen ambient air samples were collected in representative areas throughout the, 2 nd Floor, 3 rd Floor and 4 th Floor. The samples were analyzed using the Phase Contrast Microscopy (PCM) method of analysis. All results were determined to be less than the regulated occupational exposure limit of 0.1 f/cc and less than Pinchin Ltd's action level for PCM air sampling of 0.05 f/cc. Air sampling was completed following NIOSH Method 7400 by a trained PCM analyst. The actual results (where less than the detection limit of the method) are also provided in the table above. The actual detection limit of the method based on the volumes collected is 0.02 f/cc and referenced as the reportable result. | |

End of Report

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Template: Master Inspection Report for HAZ/IEQ, January 20, 2017

Appendix C

TEM LABORATORY CERTIFICATES OF ANALYSIS

**EMSL Canada Inc.**

2756 Slough Street, Mississauga, ON L9T 5N4

Phone/Fax: 289-997-4602 / (289) 997-4607

<http://www.EMSL.com>torontolab@emsl.com

EMSL Canada Or 551703155

CustomerID: 55SELI62

CustomerPO: 119917

ProjectID:

Attn: **Josh Hamilton**
Safetech Environmental
3045 Southcreek Road
Unit 14
Mississauga, ON L4X 2X7

Phone: (905) 624-2722
Fax: (905) 624-4306
Received: 03/28/17 10:12 AM
Analysis Date: 3/30/2017
Collected: 3/23/2017

Project: **UNIVERSITY OF TORONTO MEDICAL SCIENCES, #119917**

Test Report: Asbestos Analysis of Air Samples by Transmission Electron Microscopy via NIOSH Method 7402

| Sample | Volume (Liters) | Non Asbestos Fibers | PCM F/cc | Asbestos Type(s) | Asbestos Fibers | Asbestos % of total | 7402 Adjusted (TEM) F/cc | Notes |
|--|--------------------|---------------------------|-------------|---------------------|--------------------|---------------------------|--------------------------------|----------------|
| 2017-03-215 ROOM 4302 A 551703155-0001 | 1497 | 6.0 | | | | | <0.0018 | Customer Set 1 |
| 2017-03-221 551703155-0002 | 0 | 0.0 | | | | | N/A | Field Blank 1 |
| 2017-03-222 551703155-0003 | 0 | 0.0 | | | | | N/A | Field Blank 1 |

NIOSH 7402 method only reports fibers > 5µm in length and > 0.25µm in width.

This method requires a minimum of 2 field blank analyses per set. The results above are blank corrected when possible.

Average number of asbestos fibers on field blanks: 0

Average number of non-asbestos fibers on field blanks: 0

Analyst(s)

Natalie D'Amico (3)

Matthew Davis
or other approved signatory

EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Canada Inc. Mississauga, ON

Report Amended: 03/30/2017 12:06:04 Replaces the Initial Report 03/30/2017 10:13:49. Reason Code: Client-Change to Sample ID

**EMSL Canada Inc.**

2756 Slough Street, Mississauga, ON L9T 5N4

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EMSL Canada Or 551703011

CustomerID: 55SELI62

CustomerPO: Uof T Medical

ProjectID:

Attn: **Michael Mitanis**
Safetech Environmental
3045 Southcreek Road
Unit 14
Mississauga, ON L4X 2X7

Phone: (905) 624-2722
Fax: (905) 624-4306
Received: 03/23/17 4:31 PM
Analysis Date: 3/24/2017
Collected: 3/22/2017

Project: **Uof T Medical Science Building**

Test Report: Asbestos Analysis of Air Samples by Transmission Electron Microscopy via NIOSH Method 7402

| Sample | Volume (Liters) | Non Asbestos Fibers | PCM F/cc | Asbestos Type(s) | Asbestos Fibers | Asbestos % of total | 7402 Adjusted (TEM) F/cc | Notes |
|--|--------------------|---------------------------|-------------|---------------------|--------------------|---------------------------|--------------------------------|--|
| 2017-03-196 Room 6334 551703011-0001 | 2086 | 0.0 | 0.050 | | | | <0.0013 | Customer Set 1 PCM Data From Client |
| 2017-03-210 551703011-0002 | 0 | 1 | n/a | | | 0 | n/a | Field Blank 1 |
| 2017-03-211 551703011-0003 | 0 | 0 | n/a | | | 0 | n/a | Field Blank 1 |

NIOSH 7402 method only reports fibers > 5µm in length and > 0.25µm in width.

This method requires a minimum of 2 field blank analyses per set. The results above are blank corrected when possible.

Average number of asbestos fibers on field blanks: 0

Average number of non-asbestos fibers on field blanks: 0.5

Analyst(s)

Jon Delos Santos (2)

Matthew Davis (1)

Matthew Davis
or other approved signatory

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Samples analyzed by EMSL Canada Inc. Mississauga, ON

Report Amended: 03/31/2017 10:33:53 Replaces Report Amended: 03/24/2017 17:15:04. Reason Code: Client-Change to Sample ID

**EMSL Canada Inc.**

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CustomerID: 55SELI62

CustomerPO: UFT - Medical

ProjectID:

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Phone: (905) 624-2722
Fax: (905) 624-4306
Received: 03/23/17 10:57 AM
Analysis Date: 3/24/2017
Collected: 3/20/2017

Project: **UFT - Medical Science Building**

Test Report: Asbestos Analysis of Air Samples by Transmission Electron Microscopy via NIOSH Method 7402

| Sample | Volume (Liters) | Non Asbestos Fibers | PCM F/cc | Asbestos Type(s) | Asbestos Fibers | Asbestos % of total | 7402 Adjusted (TEM) F/cc | Notes |
|--|--------------------|---------------------------|-------------|---------------------|--------------------|---------------------------|--------------------------------|--|
| 2017-03-167 Mechanical Riser (6334C) 551702975-0001 | 1201 | 20.5 | 0.130 | | | | <0.0022 | Customer Set 1 PCM Data From Client |
| 2017-03-164 551702975-0002 | 0 | 0 | n/a | | | 0 | n/a | Field Blank 1 |
| 2017-03-165 551702975-0003 | 0 | 0 | n/a | | | 0 | n/a | Field Blank 1 |

NIOSH 7402 method only reports fibers > 5µm in length and > 0.25µm in width.

This method requires a minimum of 2 field blank analyses per set. The results above are blank corrected when possible.

Average number of asbestos fibers on field blanks: 0

Average number of non-asbestos fibers on field blanks: 0

Analyst(s)

Jon Delos Santos (2)

Matthew Davis (1)

Matthew Davis
or other approved signatory

EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Canada Inc. Mississauga, ON

Report Amended: 03/31/2017 10:23:02 Replaces Report Amended: 03/24/2017 17:11:34. Reason Code: Client-Change to Sample ID

