

## PHASE CONTRAST MICROSCOPY (PCM) ANALYSIS REPORT – 0.05 LEVEL

<b>Project No.:</b>	OHE: 21680 UofT: P005-16-152-MSB Labs & Support Rooms Renovation Project	<b>Work Area</b>	6 <sup>th</sup> Floor – Rooms 6331, 6337 7 <sup>th</sup> Floor – Rooms 7319, 7319A
<b>Client:</b>	University of Toronto (JLL)	<b>Shift Date:</b>	April 4, 2018
<b>Project Location:</b>	Medical Sciences Building, 1 King's College Circle, Toronto, Ontario	<b>Contractor:</b>	Biggs & Narciso Construction Services Inc.

Sample #	Sampling Date	Sampling Location	Sampling Time (From To)	Total Sampling Time (minutes)	Air Volume Sampled (Liters)	Fibre Concentration (f/cm <sup>3</sup> )
21680-1899	Apr 4, 2018	Ambient: 6 <sup>th</sup> Floor, Room 6327A, adjacent to the Work Area (Rooms 6331, 6337)	5:56 PM – 5:56 PM	60	907.08	<0.05
21680-1900	Apr 4, 2018	Ambient: 6 <sup>th</sup> Floor, Corridor 6348K, adjacent to Room 6334, adjacent to the Work Area (Rooms 6331, 6337)	5:59 PM – 6:59 PM	60	903.60	<0.05
21680-1901	Apr 4, 2018	Ambient: 7 <sup>th</sup> Floor, Room 7327, floor above the Work Area (Rooms 6331, 6337)	6:05 PM – 7:05 PM	60	902.04	<0.05
21680-1902	Apr 4, 2018	Ambient: 7 <sup>th</sup> Floor, Corridor 7324K, adjacent to Room 7323, floor above the Work Area (Rooms 6331, 6337)	6:07 PM – 7:07 PM	60	910.44	<0.05
21680-1903	Apr 4, 2018	Ambient: 5 <sup>th</sup> Floor, Room 5327, floor below the Work Area (Rooms 6331, 6337)	6:11 PM – 7:11 PM	60	903.30	<0.05
21680-1904	Apr 4, 2018	Ambient: 7 <sup>th</sup> Floor, Room 7321, adjacent to the Work Area (Rooms 7319, 7319A)	7:07 PM – 8:07 PM	60	902.04	<0.05
21680-1905	Apr 4, 2018	Ambient: 7 <sup>th</sup> Floor, Room 7318, adjacent to the Work Area (Rooms 7319, 7319A)	7:10 PM – 8:10 PM	60	910.44	<0.05
21680-1906	Apr 4, 2018	Ambient: 7 <sup>th</sup> Floor, Corridor 7324K, adjacent to Room 7323, adjacent to the Work Area (Rooms 7319, 7319A)	7:15 PM – 8:15 PM	60	903.30	<0.05
21680-1907	Apr 4, 2018	Ambient: 6 <sup>th</sup> Floor, Room 6317, floor below the Work Area (Rooms 7319, 7319A)	6:58 PM – 7:58 PM	60	907.08	<0.05
21680-1908	Apr 4, 2018	Ambient: 6 <sup>th</sup> Floor, Corridor 6324K, adjacent to Room 6323, floor below the Work Area (Rooms 7319, 7319A)	7:00 PM – 8:00 PM	60	903.30	<0.05

*The concentration of airborne fibers should be less than 0.05 f/cm<sup>3</sup> for an area to be considered suitable for occupancy.*

### General Notes:

- 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.
- Collection and analysis of the air samples was performed by Phase Contrast Microscopy (PCM) in accordance with NIOSH method # 7400A.
- Limit of Detection (LOD) is 7 fibres/mm<sup>2</sup>; Limit of Quantitation (LOQ) is 100 fibres/mm<sup>2</sup>; " < " denotes less than
- 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.



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5. Samples will be retained for 90 days after receipt and will be disposed of thereafter unless otherwise notified in writing
6. f/cm<sup>3</sup> – fibers per cubic centimeter of ambient air.

Air samples collected by: Shahab Ashkevari, Jr. Project Specialist

Analysts: Salim Sayed, Project Consultant and Shahab Ashkevari, Jr. Project Specialist