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## Perimeter Air Monitoring Report

<b>Client:</b> Justin Merritt Inflector Environmental Services 196 Hobsons Lake Drive Halifax, Nova Scotia B3S 0G4	<b>Project #:</b> 30105 <b>Location:</b> Teachers Room Enclosure - Bicentennial <b>Shift:</b> N/A <b>Issue Date:</b> November 24, 2022 <b>Report #:</b> 04
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### 1.0 DETAILS TO BE NOTED

On November 23<sup>rd</sup>, 2022, Alisha Glogowski of ALL-TECH Environmental Services Limited collected one (1) perimeter air sample for airborne asbestos analysis associated with the enclosure constructed in the Teachers Room of Bicentennial School, located at 85 Victoria Road in Dartmouth, Nova Scotia. The perimeter air sample was collected to demonstrate that the airborne fiber concentration was less than 0.01 f/cc at the time of testing. Please refer to the table below for results.

### 2.0 REGULATIONS AND GUIDELINES

#### 2.1 American Conference of Governmental Industrial Hygienists Threshold Limit Value for Asbestos

Occupational airborne exposure limits set by the Province of Nova Scotia follow airborne standards set by the American Conference of Governmental Industrial Hygienists (ACGIH) when dealing with asbestos. Their limit for asbestos exposure is asbestos, all forms 0.1 f/cc (2020). The limit of 0.1 f/cc is known as a Threshold Limit Value (TLV) and is based on a time weighted average (TWA) exposure of 8 hours as determined by air sampling following the NIOSH 7400 Asbestos and Other Fibres by Phase Contrast Microscopy.

#### 2.2 Canada Occupational Health and Safety Regulations SOR/84-304

The Canada Occupational Health and Safety Regulations (SOR/84-304) states that final clearance air samples must be as close to zero as possible, and in any event shall not exceed the ACGIH TLV (0.1 f/cc).

#### 2.3 Asbestos in the Workplace: A Guide to Removal of Friable Asbestos Containing Material - Nova Scotia Code of Practice

Where dry or wet asbestos removal is conducted, a glove bag is not used, and the air from inside the enclosure is exhausted to an indoor area that is outside of the enclosure, daily sampling for airborne asbestos fibres must be conducted outside of the enclosure and immediate action must be taken if the concentration of airborne asbestos is found to exceed 0.01 f/cc of air in an indoor area that is outside the enclosure. Final clearance air samples must be <0.01 f/cc.

### 3.0 SAMPLE PROTOCOL

During sample collection, the NIOSH 7400 Method was followed. The sample was collected on a 3-piece, 25mm cellulose-ester sampling cassette with a pore size of 0.8µm. The air-sampling pump used to collect the air sample was a Gastec Medium Volume Air Sampling Pump. Prior to air sampling, the pump was calibrated using a TSI® Primary Calibrator Model #4146, Serial No. 414608446012 (NIST Traceable).

#### 4.0 AIR MONITORING RESULTS

Sample Number	Date of Collection	Time of Collection	Sample Duration (Minutes)	Flow Rate (LPM)	Sample Volume (Litres)	Sample Location / Description	Results (F/cc)
42-443	November 23 <sup>rd</sup> , 2022	9:01 pm	110	15	1650	Mimeograph Room Perimeter Air Sample	<0.01

The above noted sample was analyzed using the **NIOSH 7400 Method, (Asbestos and Other Fibres by PCM), following “A” Counting Rules**. NIOSH states in section titled APPLICABILITY that “This method gives an index of airborne fibres. It is primarily used for estimating asbestos concentrations, though PCM does not differentiate between asbestos and other fibres. This method will not detect fibres <0.25µm in diameter”.

**Results of air testing indicate airborne levels of fibres to be below 0.01 F/cc, or Fibres per Cubic Centimetre as set by the Province of Nova Scotia’s Department of Labour and Advanced Education, Code of Practice “A Guide to Removal of Friable Asbestos Containing Material”, Section 8, Sub-section 5 (Nov. 21, 2013).**

If you have any questions or comments regarding the above noted results, please feel free to contact our office at your convenience.

Thank you and have a great day,



Alisha Glogowski, B.Sc.  
Environmental Scientist  
**ALL-TECH Environmental Services Ltd.**