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## Final Clearance Air Monitoring Report

**Client:** Gary Mannette  
Halifax Regional School Board  
33 Spectacle Lake Drive  
Dartmouth, Nova Scotia  
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**Project:** 24945  
**Location:** Shannon Park Elementary School  
**Shift:** N/A  
**Date:** February 24<sup>th</sup>, 2019  
**Report #:** 07

### Summary:

Air monitoring was performed within Room 8, Room 9, Main Entrance (three (3) enclosures), Room 12 and Room 14 after penetrations were made in asbestos containing plaster to facilitate ceiling access in the area. Results of the air monitoring show that the samples were below all applicable guidelines and the area is safe for occupancy.

### 1. Details to be noted:

On February 24<sup>th</sup>, 2019, Jeff King of ALL-TECH Environmental Services Limited collected seven (7) final clearance air samples inside the enclosures (<270m<sup>3</sup> each) constructed within various areas of the Shannon Park Elementary School located at 75 Iroquois Drive in Dartmouth, Nova Scotia. The inspection that verified the enclosures to be ready for final clearance air testing was performed by Belfor. The final clearance air samples were collected to demonstrate that airborne fibers were below 0.01 f/cc at the time of testing.

During final air clearance sampling, aggressive techniques (forced air) were utilized to disturb any loose fibers from all surfaces within the work enclosure to ensure a representative sample of all potential fibers within the area were collected. Please see below for results.

### 2. Sample Protocol:

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

### 3. 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)
27-141	February 24 <sup>th</sup> , 2019	9:20 am	86	15.0	1,290	Inside Enclosure – Classroom 8 (<270m <sup>3</sup> ) / <b>Final Clearance Air Sample</b>	<b>&lt;0.01</b>
27-142	February 24 <sup>th</sup> , 2019	9:23 am	84	15.0	1,260	Inside Enclosure – Classroom 9 (<270m <sup>3</sup> ) / <b>Final Clearance Air Sample</b>	<b>&lt;0.01</b>
27-143	February 24 <sup>th</sup> , 2019	9:26 am	83	15.0	1,245	Inside Enclosure #1 – Main Entrance (<270m <sup>3</sup> ) / <b>Final Clearance Air Sample</b>	<b>&lt;0.01</b>
27-144	February 24 <sup>th</sup> , 2019	9:28 am	81	15.0	1,215	Inside Enclosure #2 – Main Entrance (<270m <sup>3</sup> ) / <b>Final Clearance Air Sample</b>	<b>&lt;0.01</b>
27-145	February 24 <sup>th</sup> , 2019	9:29 am	81	15.0	1,215	Inside Enclosure #3 – Main Entrance (<270m <sup>3</sup> ) / <b>Final Clearance Air Sample</b>	<b>&lt;0.01</b>
27-146	February 24 <sup>th</sup> , 2019	9:30 am	80	15.0	1,200	Inside Enclosure – Room 12 (<270m <sup>3</sup> ) / <b>Final Clearance Air Sample</b>	<b>&lt;0.01</b>
27-147	February 24 <sup>th</sup> , 2019	9:31 am	80	15.0	1,200	Inside Enclosure – Room 14 (<270m <sup>3</sup> ) / <b>Final Clearance Air Sample</b>	<b>&lt;0.01</b>

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).

The above noted samples were 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".

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

Thanks,



Jeff King, B.Sc., B.Tech. (Public Health).  
Environmental Scientist  
**ALL-TECH Environmental Services Limited**