ALL-TECH
ENVIRONMENTAL SERVICES LIMITED

20 Duke St, Suite 109
Bedford, NS B4A 2Z5
Web: www.toalltech.com

Ph: 902.835.3727
Fax: 902.835.5266
Email: email@toalltech.com

Final Clearance Air Monitoring Report

Client: Gary Mannette
Halifax Regional School Board
33 Spectacle Lake Drive
Dartmouth, Nova Scotia
B3B 1X7

Project: 24945
Location: Shannon Park Elementary School
Shift: N/A
Date: January 6th, 2019
Report #: 01

Summary:

Air monitoring was performed within classroom 10, 7, 6, 5, men washroom and women washroom 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 January 6th, 2019, Jake Chong of ALL-TECH Environmental Services Limited collected seven (7) final clearance air samples inside the enclosures (<270 m^3) constructed within 4 different classrooms, men and women washrooms 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)
26-082	January 6th, 2019	9:39 AM	80	15.0	1200	Inside Enclosure – Classroom 10 (<270 m^3) / **Final Clearance Air Sample**	***<0.01***
26-083	January 6th, 2019	9:42 AM	80	15.0	1200	Inside Enclosure – Classroom 7 (<270 m^3) / **Final Clearance Air Sample**	***<0.01***
26-084	January 6th, 2019	9:44 AM	80	15.0	1200	Inside Enclosure – Classroom 6 (<270 m^3) / **Final Clearance Air Sample**	***<0.01***
26-085	January 6th, 2019	9:56 AM	80	15.0	1200	Inside Enclosure – Classroom 5 (<270 m^3) / **Final Clearance Air Sample**	***<0.01***
26-086	January 6th, 2019	9:56 AM	80	15.0	1200	Inside Enclosure – Classroom 5 (<270 m^3) / **Final Clearance Air Sample**	***<0.01***
26-087	January 6th, 2019	9:58 AM	80	15.0	1200	Inside Enclosure – Men washroom (<270 m^3) / **Final Clearance Air Sample**	***<0.01***

Sample Number	Date of Collection	Time of Collection	Sample Duration (Minutes)	Flow Rate (LPM)	Sample Volume (Litres)	Sample Location / Description	Results (F/cc)
26-088	January 6th, 2019	10:41 AM	80	15.0	1200	Inside Enclosure – Women washroom (<270 m^3) / **Final Clearance Air Sample**	***<0.01***

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.

Thank you and have a great day,

Jake Chong, B.Eng.
Engineer- In- Training
ALL-TECH Environmental Services Ltd.