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June 19, 2002

Mr. Bernard P. Orlan
 Director, Environmental Health and Safety
 New York City Board of Education
 28-11 Queens Plaza North
 Long Island City, NY 11101

Re: **Air Sampling for Metals**
High School of Economics and Finance (833M)
ATC Project No. 15-19125-0291

Dear Mr. Orlan:

ATC Associates, Inc. (ATC) is pleased to provide this report of air sampling for metals conducted on March 30, 2002, at the referenced school. The New York City Board of Education (BOE) requested this sampling to ensure that acceptable air quality is being maintained.

Scope of Work

ATC collected four (4) samples for metals from locations throughout the building and outdoors. Samples were collected for ten (10) hours using 37 mm mixed cellulose ester filters connected to battery-powered sampling pumps at a flow rate of 2 liters per minute. Pumps were calibrated before and after each sampling period. Three (3) samples were collected inside the building and one (1) was collected outdoors on the roof. One blank sample was also submitted per day. The samples were sent to PSC Analytical Services, Inc., an American Industrial Hygiene Association-accredited laboratory in Reading, PA. Analysis was performed by NIOSH Methods 7300M. The samples were analyzed for a panel of twelve (12) metals. The metals were aluminum (Al), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni) and zinc (Zn). Copies of the analytical laboratory reports are attached.

The sampling locations were: the Main Lobby, the 5th floor Hallway, the 10th floor Hallway and the Roof.

Tenzin Namgyal and Wagdi Abdelshahid, Industrial Hygienists from ATC's New York City office, collected the samples consistent with accepted industrial hygiene practices. The results represent conditions on the days the samples were collected.

The established regulatory values for metals are intended for industrial workplace exposures and are not generally applicable to office/school settings. There are no standards for these metals in indoor air in non-industrial situations.

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Results

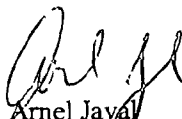
Chromium (Cr) and aluminum (Al) were detected in all four samples and in the blank. Blank-correcting the Cr and Al concentrations lowers them to below or just above the limit of detection.

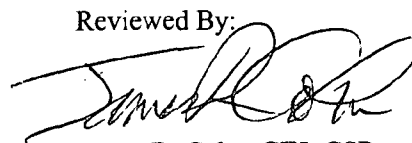
The Environmental Protection Agency (EPA) has set a screening level for hexavalent chromium (the more toxic form) in air of 0.6 ug/m^3 , this assumes a continuous exposure for one year. The samples here were analyzed for total chromium (trivalent and hexavalent).

The EPA has no screening level or standard for aluminum in ambient air.

ATC appreciates the opportunity to provide this indoor air quality service to the BOE. Please call me at (212) 353-8280 extension 212 if you have any questions.

Sincerely,
ATC Associates, Inc.


Arnel Javal
Senior Project Manager

Reviewed By:

James R. Cohn, CIH, CSP
Regional Manager
Industrial Hygiene Division

Attachment