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July 17, 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
 Stuyvesant High School
 ATC Project No. 15-19125-0246**

Dear Mr. Orlan:

ATC Associates, Inc. (ATC) is pleased to provide this letter report of air sampling for metals in airborne dust on June 26, 2002, at the referenced school. The New York City Board of Education (BOE) requested this sampling at the recommendation of H. A. Bader, a consultant retained by the parents association.

SCOPE OF WORK

ATC collected three (3) samples for metals at specified locations. Samples were collected for a minimum of seven (7) hours using 37 mm mixed cellulose ester filter connected to battery-powered sampling pumps at a flow rate of 2 liters per minute. Pumps were calibrated before and after each sampling period. Two (2) samples were collected inside the building and one (1) was collected on the roof. Two blank samples were also submitted. 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. Each sample was analyzed for a panel of eleven (11) metals. The metals were aluminum (Al), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni) and zinc (Zn). A copy of the analytical report is attached.

The sampling locations were: the 1st floor lobby, 2nd floor bridge entrance lobby and the Roof.

Tenzin Namgyal and Wagdi Abdelshahid conducted the sampling consistent with accepted industrial hygiene practices. The results represent conditions on the day the samples were collected.

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

SAMPLE RESULTS

The only metal present at concentrations greater than the limits of detection was chromium. Cr was also detected in the field blank. Blank-corrected the Cr concentration lowers the concentrations to below or just above the limit of detection.

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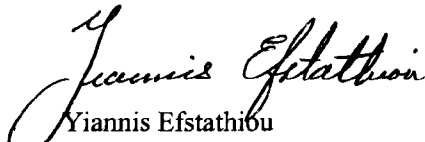
Zinc was found in the second floor bridge entrance (Sample #ATC-0626-STY-M2) at a concentration of 0.562 ug/m³. Zinc was not detected in the blanks. No other metals were found above the limits of detection.

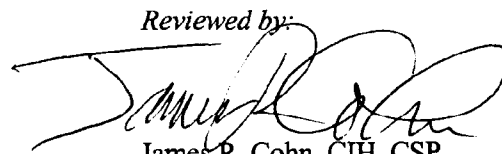
The Environmental Protection Agency has recommended a screening level for hexavalent Cr (the more toxic form) of 0.6 micrograms per cubic meter of air (0.6 ug/m³) based on continuous exposure for one year. These samples were analyzed for total Cr. The levels detected were *below* the EPA screening level.

The EPA has no screening level for zinc.

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

Sincerely,
ATC Associates, Inc.


Yiannis Efstathiou
Senior Project Manager

Reviewed by:

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

Attachment