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February 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
P. S. 150M
ATC Project No. 15-19125-0289**

Dear Mr. Orlan:

ATC Associates, Inc. (ATC) is pleased to provide this report of air sampling for metals in airborne dust performed on January 29 and February 4, 2002, at the referenced school. The New York City Board of Education (BOE) requested this sampling as part of a program to determine the indoor air quality prior to reoccupancy.

ATC collected three (3) samples for metals at specified locations on both dates. Samples were collected for a minimum of ten (10) 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. One (1) sample was collected inside the building and two (2) were collected from the outside. One blank sample per day was also submitted for analysis. 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). The January 29th samples were also analyzed for lead (Pb). Copies of the analytical reports are attached.

The sampling locations were as follows:

Outdoor – Plaza, roof (South) and 1st floor lobby.

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. The Environmental Protection Agency (EPA) has established an ambient air standard for Pb of 1.5 ug/m³ based on a three month exposure. The EPA has set a screening level for hexavalent chromium (the more toxic form) in air of 0.6 ug/m³, this assumes a continuous exposure for one year. The samples here were analyzed for total chromium (trivalent and hexavalent).

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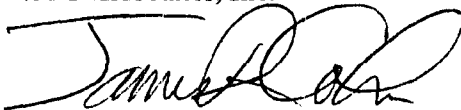
SAMPLE RESULTS

The only metals present at concentrations greater than the limits of detection were Cr and Pb. Analysis for Pb was performed only on the January 29th samples. Chromium concentrations in the samples on both days were indistinguishable from the concentrations in the blanks.

Lead was detected in the three samples from January 29th. All three samples contained slightly less than 0.3 micrograms of Pb per cubic meter of air (0.3 ug/m^3) which is just at the detection limit. The concentrations detected are below the EPA standard of 1.5 ug/m^3 .

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.



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

Attachment