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July 5, 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 Samples for Metals
P.S. 89M
ATC Project No. 15-19125-0297**

Dear Mr. Orlan:

ATC Associates, Inc. (ATC) is pleased to provide this report of air sampling for metals in airborne dust conducted on April 25, 2002, at the referenced school. The New York City Board of Education (BOE) requested this sampling at the recommendation of Environ Corp., the consultant retained by the parents association.

Scope of Work

ATC collected four (4) samples for metals at specified locations. Samples were collected for a minimum of 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. One (1) sample was collected inside the building and three (3) were collected outdoors. Two (2) blank filters per day were also submitted. The additional blank was included to confirm the levels of any trace contaminants in the filters. 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 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). A copy of the analytical report is attached.

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

The sampling locations were the 1st floor Hallway by the Cafeteria, Playground-north, Playground-south and the Roof.

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.*

Mr. Bernard P. Orlan
Air Samples for Metals
P.S. 89 (Manhattan)

July 5, 2002

Page 2

ATC Project No. 15-19125-0297

Results

The only metal found above the limits of detection was Chromium (Cr). Cr was detected in all four samples and in the blanks. Sample results are listed in the table:

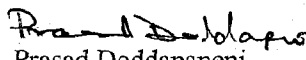
Sample ID/ Location	Concentration in Sample (ug)	Concentration after Blank Correction (ug/m ³)
ATC-0425-89M-M1/Playground North	0.701	0.313
ATC-0425-89M-M2/Playground South	0.648	0.269
ATC-0425-89M-M3/Hallway outside Cafeteria	0.770	0.370
ATC-0425-89M-M4/Roof	0.417	0.076
ATC-0425-89M-M5/Blank	0.322	---
ATC-0425-89M-M6/Blank	0.325	---

After blank-correction, the Cr concentration in Sample # ATC-0425-89M-M4 was lowered to 0.076 micrograms per cubic meter (ug/m³) and the concentrations in Sample # ATC-0425-89M-M1, ATC-0425-89M-M2, ATC-0425-89M-M3 were 0.313, 0.269, 0.370 ug/m³ respectively.

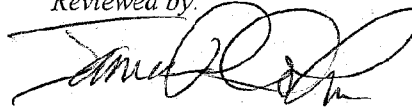
The Environmental Protection Agency (EPA) has set a screening level for hexavalent Cr (the more toxic form) in air of 0.6 ug/m³, this assumes a continuous exposure for one year. The samples here were analyzed for total Cr (trivalent and hexavalent). These results were *below* the EPA's screening level for hexavalent Cr.

ATC appreciates the opportunity to provide this indoor air quality service to the BOE. Please call (212) 353-8280 extension 212 or extension 290 if you have any questions.

Sincerely,
ATC Associates, Inc.


Prasad Doddapaneni
Senior Project Manager

Reviewed by:



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

Attachment