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June 7, 2002

Mr. Bernard P. Orlan
Director, Environmental Health & Safety
New York City Board of Education
28-11 Queens Plaza North
Long Island City, NY 11101-4008

**Re: Wipe Samples for Dioxins
P. S. 89M
ATC Project No. 15-19125-0297**

Dear Mr. Orlan:

ATC Associates Inc. (ATC) is pleased to provide this report of the results of the wipe samples for polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) collected on May 2 and 9, 2002 at the referenced location. The New York City Board of Education (BOE) requested these samples to evaluate possible contamination in the school building per the recommendation of Environ Corp., consultant to the parents association.

SCOPE OF WORK

The samples were collected using gauze pads and hexane as a solvent. The pads and solvent were provided and samples were analyzed by Pace Analytical Services, Inc. (Pace) of Minneapolis, MN, a laboratory experienced in dioxin analysis. The analysis was performed by modified EPA Method 8290 using combined capillary column gas chromatography/high resolution mass spectrometry.

Wagdi Abdelshahid, Industrial Hygienist of ATC's New York City office, collected the samples consistent with generally accepted industrial hygiene practices. There were inherent limitations created by constraints of time, operational and work practice variability, variations in contaminant concentrations, and sampling and analytical accuracy. The results of the sampling represent conditions found on the dates the samples were collected.

WIPE SAMPLING RESULTS

On each day, ATC submitted three (3) wipe samples for PCDDs/PCDFs to Pace for analysis. A copy of the laboratory analysis report is provided in the Attachment. Samples were taken from areas specified by the parents association consultant. The area of each sample one (1) square meter (1m²).

Each sample was analyzed for sixteen (16) PCDD/PCDF isomers. The results for each isomer were then converted to 2, 3, 7, 8 -tetrachloro-dibenzo-p-dioxin (2, 3, 7, 8-TCDD) equivalents by multiplying by an established equivalency factor.

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CITY_21MC100_003474188

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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This provides a single value (in nanograms) for the analytical results for each sample. The sample locations and the results are shown in the table:

**DIOXIN WIPE SAMPLE RESULTS
(2, 3, 7, 8 TCDD EQUIVALENTS)**

May 2, 2002

LOCATION/SAMPLE NUMBER	DIOXIN CONCENTRATION (ng/m ²)
1 st Floor Hallway-north/DX1	0.000048
1 st Floor Hallway-south/DX2	0.000039
2 nd Floor Hallway-south/DX3	0.000031

May 9, 2002

LOCATION/SAMPLE NUMBER	DIOXIN CONCENTRATION (ng/m ²)
1 st Floor Hallway-north/DX1	0.000040
1 st Floor Hallway-south/DX2	0.0014
2 nd Floor Hallway-south/DX3	0.00035

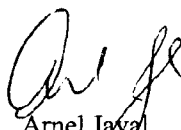
The New York State Department of Health (NYSDOH) established guidelines for dioxin for the re-occupancy of the Binghamton State Office Building following a PCB fire. The NYSDOH guideline for dioxin on surfaces is 25 nanograms per square meter (25 ng/m²).

On 5/02/02, the concentrations on indoor surfaces ranged from 0.000031 to 0.000048 nanograms per square meter (ng/m²). On 5/09/02, the concentrations on indoor surfaces ranged from 0.000035 to 0.0014 nanograms per square meter (ng/m²). The dioxin concentrations in all of these sample are *below* the NYSDOH guideline.

It is not possible to determine when the 2, 3, 7, 8 - TCDD equivalents detected in these samples were deposited. Dioxin samples were not collected from these locations prior to December 20, 2001.

It is our pleasure to provide these indoor environmental services to the NYC Board of Education. If you have any questions about this report, please call (212) 353-8280, extension 212.

Sincerely,
ATC ASSOCIATES INC.


Arnel Javal
Senior Project Manager

Attachment

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