



104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212 353 8306

December 23, 2002

Mr. Bernard P. Orlan
Director, Environmental Health & Safety
New York City Department 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 November 14, 2002 at the referenced school. The New York City Department of Education (DOE) requested these samples to evaluate possible contamination in the school building.

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 date the samples were collected.

WIPE SAMPLING RESULTS

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. 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. This provides a single value (in nanograms) for the analytical results for each sample.

Mr. Bernard P. Orlan
Wipe Samples for Dioxins
P. S. 89 (Manhattan)

December 23, 2002
Page 2
ATC Project No. 15-19125-0297

The sample locations and the results are shown in the table:

DIOXIN WIPE SAMPLE RESULTS
(2, 3, 7, 8 TCDD EQUIVALENTS)
November 14, 2002

LOCATION/SAMPLE NUMBER	DIOXIN CONCENTRATION (ng/m ²)
1 st Floor Hallway – North / DX1	0.000072
1 st Floor Hallway – South / DX2	*N.A.
2 nd Floor Hallway – South / DX3	0.0010

*N.A.= Not Available – Due to a laboratory error, Sample DX2 could not be analyzed.

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).

The concentrations on indoor surfaces ranged from 0.000072 to 0.0010 nanograms per square meter (ng/m²) for the two samples analyzed. The dioxin concentrations in these samples 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 DOE. If you have any questions about this report, please call (212) 353-8280, extension 212.

Sincerely,
ATC ASSOCIATES INC.



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

Attachment