NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

May 22, 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 Dioxin
High School of Economics and Finance (M833)
ATC Project No. 15-19125-0291

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 April 6, 20, and 27, 2002 at the referenced location. The New York City Board of Education (BOE) requested these samples to evaluate possible contamination in the school building.

SCOPE OF WORK

Wagdi Abdelshahid, Industrial Hygienist of ATC's New York City office, collected the samples 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.

The sampling was performed 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 report is provided in the Attachment. Samples were taken from surfaces throughout the building. The area of each sample was one square meter (1 m^2).

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. The sample locations and concentrations are shown in the table.

NYC-WTC_000404698

NYC 9/11 Public Portal Document

DIOXIN WIPE SAMPLE RESULTS
(2, 3, 7, 8 TCDD EQUIVALENTS) - Nanograms per square meter (ng/m^2)

April 6, 2002

Main Lobby/DX1	0.00027
5th Floor Hall by Stair B/DX2	0.00062
10th Floor by Stair B/DX3	0.00068

April 20, 2002

Main Lobby/DX1	0.000037
5th Floor Hall by Stair B/DX2	0.0018
10th Floor by Stair B/DX3	0.0029

April 27, 2002

Main Lobby/DX1	0.00
5th Floor Hall by Stair B/DX2	0.000078
10th Floor by Stair B/DX3	0.00048

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 ng/m^2.

On April 6, the concentrations on indoor surfaces ranged from 0.00027 to 0.00068 ng/m^2. On April 20, the concentrations on indoor surfaces ranged from 0.000037 to 0.0018 ng/m^2. On April 27, the concentrations on indoor surfaces ranged from 0.00 to 0.000078 ng/m^2. The levels found in all these samples are *below* the NYSDOH guideline of 25 ng/m^2.

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 this school prior to January 14, 2002.

NYC-WTC_000404699

NYC 9/11 Public Portal Document

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

Reviewed By:

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

Attachment

NYC-WTC_000404700