

ambient group inc.

SUBJECT

As part of the on going assessment of materials at 75 Park Place Ambient Group, Inc. conducted a dust survey on October 20, 2001 to determine the constituents in the materials at 75 Park Place. The survey included sampling for bulk and settled dust characterization. As a result, one (1) of the bulk samples collected from the 9th floor southeast corner, was determined to be positive for the presence of asbestos (2% of Chrysotile asbestos). All dust characterization samples tested negative for the presence of asbestos.

In response, Ambient Group, Inc. returned to 75 Park Place, on October 25, 2001, to perform a more detailed survey of the southeast corner on the 9th floor. This survey identified a very limited area (<1 square foot) of material as asbestos containing. This material was located within one perimeter heating unit.

In response to this, on October 28, 2001 air monitoring was performed during a dust control project in this area on the 9th floor. AES cleaned (using HEPA VAC and wet wipe techniques) the below and above ceiling surfaces in the southeast corner. Ambient Group, Inc. was responsible for air sample collection, analysis, and data reporting during this work. All material identified as asbestos was removed and the area successfully passed reoccupancy testing.

DISCUSSION

In its role as air monitor during dust control procedures, Ambient Group Inc. collected air samples during the project to determine if the Contractor was containing airborne fibers within the work site.

Ambient Group, Inc. collected and analyzed a total of four (4) airborne fiber samples over the course of this project. Of this total, two (2) were contamination samples and two (2) samples were re-occupancy samples.

The results of the sample analyses indicated airborne fiber levels below 0.01 fibers/cm³. The work site where dust control removal took place was released for re-occupancy only after meeting New York State Department of Labor airborne fiber re-occupancy criteria, and was free of visible debris.

ACM sample locations from October 20, 2001 can be found (marked on drawings) in Appendix A. The sample results from October 20, 2001 can be found in Appendix B. The sample results from October 25, 2001 can be found in Appendix C. The sample results from October 28, 2001 can be found in Appendix D. An explanation of the air sample codes used in the laboratory reports can be found in Table 1.

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METHOD

Air sample collection and analysis was performed in accordance with the procedures described in the National Institute for Occupational Safety and Health (NIOSH) 7400 method for the determination of airborne fiber levels, excerpted from the Fourth Edition of the *NIOSH Manual of Analytical Methods*, August 1994.

A known volume of air was drawn through a mixed cellulose ester filter mounted in a 25mm, three-piece electrically conductive cassette. Air sampling pump flow rates were verified before and after sampling with calibrated flow meters. Field blanks were submitted at the rate of 10% of the total number of samples collected during the work shift, or two samples, whichever amount was greater.

Analysis of the air samples was performed at Ambient Group, Inc. (NYSDOH ELAP #11732). The sample filter was rendered transparent by the Acetone/Triacetin method and analyzed under positive Phase Contrast Microscopy (PCM). The microscope used employed a Bertrand lens and a Walton Beckett graticule and was calibrated with an HSE/NPL calibration slide.

Airborne fibers were counted in accordance with the "A" Rules of the NIOSH 7400 method. Fiber concentration was calculated as the quotient of the fiber count divided by the volume of air sampled.

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Table 1. Air Sample Type Codes

TYPE	NAME	PURPOSE	MAXIMUM ALLOWABLE CONCENTRATION (fibers/cm ³)
CONTAM	Contamination	Samples collected to establish if the contractor is containing airborne fibers in the work site	<0.01 (0.02 for the Clean Room)
REOCC	Re-occupancy	Samples collected inside the work site after final clean up to determine compliance with re-occupancy specifications	<0.01