NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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January 18, 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: Respirable Particulates Air Monitoring
P. S. 234M
292 Greenwich Street
New York, NY 10007
ATC Project No. 15-19125-0279

Dear Mr. Orlan:

ATC Associates Inc. (ATC) is pleased to provide this report of the results of respirable particulates real-time air monitoring conducted on January 17, 2002, at the referenced school. The New York City Board of Education (BOE) requested this monitoring at the recommendation of Environ Corp., the consultant to the parents association.

SCOPE OF WORK

Tenzin Namgyal, Industrial Hygienist from ATC's New York City office, conducted the assessment. ATC's findings and conclusions are based on a visual inspection, real-time environmental measurements and conditions present in the school at the time of the assessment. Per the request of the Parents Association environmental consultant, Mr. Tom Fusillo of Environ, real-time readings of respirable particulates were collected only from outdoors.

ATC recorded concentrations of respirable particulates with a Dust Trak® Aerosol Monitor Model 8520, manufactured by TSI, Inc.

The assessment was performed consistent with generally accepted indoor air quality assessment practices. As with all such assessments, there were inherent limitations created by constraints of time, operational and work practice variability, variations in indoor air quality parameters, and sampling and analytical accuracy. The results of the sampling represent conditions found on the dates of the survey and may not represent conditions found at other times. The information presented in this report should be used by the Board of Education as a guide to assess the need for further improvements in current indoor air quality control activities.

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EVALUATION CRITERIA

Currently, there are no regulatory standards for indoor air quality in non-industrial buildings, such as offices and schools.

Table 1 lists the target guideline for the parameter that ATC evaluated during this investigation. Meeting the listed value does not assure that acceptable indoor air quality will be achieved at all times.

TABLE 1
TARGET GUIDELINES FOR INDOOR AIR QUALITY PARAMETERS EVALUATED*

PARAMETER	TARGET LEVEL	AGENCY OR ORGANIZATION
Respirable Particulates ($PM_{2.5}$)	65 micrograms per cubic meter of air ($\mu g/m^3$) 24 hour average	USEPA NPAAQS

USEPA = United States Environmental Protection Agency
NPAAQS = National Primary Ambient-Air Quality Standard

REAL-TIME SAMPLING RESULTS

A total of four (4) outdoors respirable particulates measurements were collected. The IAQ field report forms are provided as the Attachment.

The four (4) outdoors respirable particulate concentrations* were ranged between 43 $\mu g/m^3$ to 46 $\mu g/m^3$. None of the measurements were above the NPAAQS of 65 $\mu g/m^3$ 24-hour average concentration of particulate matter 2.5 micrometers or less in aerodynamic diameter.

Note: The measurements made during this assessment were instantaneous readings, the NPAAQS is a 24-hour average.

CONCLUSION

Based on our observations and measurements of the specified parameters and locations as requested by the Parents Association consultant, ATC concludes that the outdoor air quality at the assessed locations were acceptable at the time of ATC's investigation.

It is our pleasure to provide these indoor air consultative services to the New York City Board of Education. If you have any questions about this report, please contact me at (212) 353-8280, extension 261 or 212.

Sincerely,
ATC ASSOCIATES INC.

Andreas C. Andreou
Senior Project Manager

Reviewed by:

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

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