



THE CITY OF NEW YORK

DEPARTMENT OF ENVIRONMENTAL PROTECTION

## Air, Noise and Hazardous Materials

### Air Monitoring in Lower Manhattan

DEP is monitoring the ambient outdoor air for asbestos. This effort is augmenting ambient air asbestos sampling being done by the EPA and other state and city agencies. There is currently no outdoor ambient standard for asbestos. The US and NYC standard for asbestos in community and residential buildings is 0.01 fibers/cubic centimeter (f/cc) in indoor air. An indoor area which has had asbestos detected and then removed must show that air samples are at or below the 0.01 f/cc standard before the indoor area can be re-occupied. Although the ambient outdoor air is being monitored, DEP is using this value as a way to characterize the levels of asbestos in the air.

|                |
|----------------|
| School<br>Data |
|----------------|

Since the measurement protocol used, phase contrast microscopy (PCM), counts fibers, DEP is also conducting an additional analysis for all samples that are above 0.01 f/cc. This measurement protocol is called transmission electron microscopy (TEM) and counts the number of asbestos fibers in the sample. EPA is reporting their data in TEMs, and provides a good explanation of the interpretation of the standard that uses this methodology on their [website](#).

Results indicate that, as expected, asbestos is present in some of the debris at the site and in areas very close to the site. Between September 28, 2001 and the present, the vast majority of air sampling results outside the security zone have been below the standards for asbestos in indoor air.

As testing continues, there may be the possibility of occasional short-term increases in levels of asbestos in the air above the residential standard of 0.01 f/cc of air. When the measured level for the outdoor ambient air is above 0.01 f/cc, the samples will be analyzed to determine how many of the fibers are actually asbestos fibers.

To view recent air monitoring results, click on a sampling location below or on the [map](#) (Links will open in a new browser window)

#### Sampling Site Location

- |                                                  |                                                              |
|--------------------------------------------------|--------------------------------------------------------------|
| 1 <a href="#">West Broadway and Worth Street</a> | 19 <a href="#">Vesey and West Street</a>                     |
| 2 <a href="#">Broadway and Worth Street</a>      | 20 <a href="#">Vesey between Church and Greenwich Street</a> |
| 3 <a href="#">Duane Street and</a>               | 20A <a href="#">Vesey and</a>                                |

## Air Monitoring in Lower Manhattan

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|     |                                                                     |     |                                                   |
|-----|---------------------------------------------------------------------|-----|---------------------------------------------------|
|     | <u>Trimble Place</u>                                                |     | <u>West Broadway</u>                              |
| 4   | <u>River Terrace and Chambers Street</u>                            | 21  | <u>Fulton and Church Street</u>                   |
| 5   | <u>Chambers and North End Avenue</u>                                | 22  | <u>Fulton between Church and Broadway</u>         |
| 6   | <u>Greenwich and Chambers Street</u>                                | 23  | <u>Church and Dey</u>                             |
| 6A  | <u>West end of Warren Street</u>                                    | 24  | <u>Liberty Street and South End Avenue</u>        |
| 7   | <u>Warren Street and North End Avenue</u>                           | 25  | <u>Liberty and Church Street</u>                  |
| 8   | <u>West Street and Warren Street</u>                                | 26  | <u>Liberty and Broadway</u>                       |
| 8A  | <u>River Terrace Park area between Park Place and Warren Street</u> | 27  | <u>Gateway Plaza Park Area</u>                    |
| 9   | <u>River Terrace and Park Place West</u>                            | 28  | <u>Washington and Cedar Street</u>                |
| 10  | <u>North End Avenue and Park Place West</u>                         | 29  | <u>Trinity Place and Thames Street</u>            |
| 11  | <u>Murray and Greenwich Street</u>                                  | 30  | <u>Cedar and Broadway</u>                         |
| 12  | <u>Murray and Church Street</u>                                     | 31  | <u>South End Avenue and Albany Street</u>         |
| 13  | <u>Murray between Church and Broadway</u>                           | 32  | <u>West Street and Albany</u>                     |
| 14  | <u>Broadway and Murray Street</u>                                   | 33  | <u>Albany and Greenwich</u>                       |
| 15  | <u>Park Place and Greenwich Street</u>                              | 33A | <u>Rector Place by the park</u>                   |
| 16  | <u>Park Place and Church Street</u>                                 | 34  | <u>West Thames Street - along waterfront</u>      |
| 17  | <u>River Terrace and Vesey Street</u>                               | 35  | <u>South End Avenue and Thames Street</u>         |
| 17A | <u>North End Avenue and Vesey Street</u>                            | 36  | <u>Third Place and Battery Place - waterside</u>  |
| 18  | <u>Barclay and West Broadway</u>                                    | 37  | <u>West of Third Place (South Cove Apartment)</u> |



## School Monitoring Data

DEP has been working with the involved City agencies, including the Board of Education, to provide air monitoring in and around the schools near the World Trade Center disaster site. DEP is collecting 8 hour ambient air samples that are analyzed for asbestos at four locations. These locations are outside of the main entrances to: Stuyvesant High School, IS/PS 89, PS 234 and the High School of Economics and Finance. DEP began sampling on October 4, 2001. From October 4th through October 18th, DEP only did a TEM analysis if the PCM concentration was above 0.01 fibers per cubic centimeter (f/cc). During this period of time, there was only one reading above 0.01 f/cc. The TEM result was below the Asbestos Hazard Emergency Response Act (AHERA) standard of 70 structures per square millimeter (s/sqmm). As of October 19, DEP began conducting a TEM analysis on all samples to provide a direct comparison to the AHERA standard. Of the 356 samples that have been collected between October 19 and January 15, 2002, all have been well below the AHERA standard of 70 s/sqmm. Since that period, the results continue to be well below the AHERA standard.

[School Monitoring Data](#) ►

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### Additional Information

- [Advisory for Building Façade Clean-up](#)
- [Notice to Building Owners Located South of 14th Street, Manhattan: Building Maintenance Issues Involved in Reopening Buildings Closed Since 9/11/01](#)
- [New York City Department of Health Responds to the World Trade Center Disaster](#)

*Last updated February 1, 2002*



### Air, Noise and Hazardous Materials

- [Air monitoring in Lower Manhattan](#)
- [Certified Asbestos Investigators, Contractors and Firms](#)
- [Asbestos Rules and Regulations](#)
- [Asbestos Abatement Activity Forms](#)

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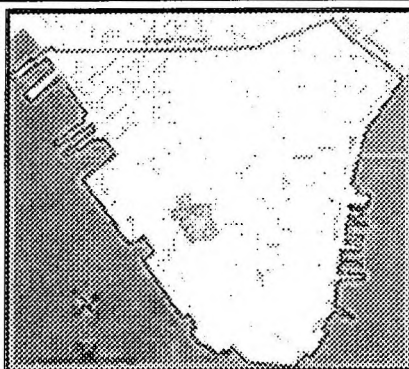
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718-DEP-HELP (337-4357)  
**NYSERDA ("Keep Cool" AC Help)**  
 1-877-NYSMART  
 (1-877-697-6278).  
**Mental Health Association of New York City**  
 1-800-Lifenet (1-800-543-3638)

**Target Cleanup Area**  
 (Info to Supervisor)



**Contractor Information**

Asbestos removal contractors seeking information about the project should write to:

NYCDEP  
 Asbestos  
 Department  
 59-17 Junction  
 Blvd.  
 Flushing, NY 11373

**NEWS of INTEREST:**

**Work Begins on Pilot Dust Cleaning Study**  
**Remaining Exterior Cleanup Work Underway**  
**Sign up Now for Cleanup And/or Testing**

**WORK BEGINS ON PILOT DUST CLEANING STUDY**

(June 18, 2002) EPA has begun sampling for contaminants in 110 Liberty Street, a still-unoccupied building close to the World Trade Center (WTC) site, in what will be a comprehensive test of the effectiveness of various cleanup techniques. Cleaning procedures to be tested include those that were recommended following the collapse of the WTC as well as others that may have been used in cleaning residential units. Comprehensive sampling will be conducted before, during and after the pilot cleanup.

[News Release](#)  
[Fact Sheet](#)

