

11/07/2002 15:11 FAX

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# AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

**ATHENICA**  
ENVIRONMENTAL SERVICES INC.  
Tel. (718) 784-7498  
Fax. (718) 784-0865

CLIENT: Warren & Panzer Engineers, P.C.  
LABORATORY ID #: T02-11-034  
ANALYT. METHODOLOGY: AHERA  
FILTER TYPE: M.C.E.  
AVERAGE G.O. AREA (mm<sup>2</sup>): 0.013433

PROJECT: NYC DEP, 100 Church Street  
DATE OF REPORT: 11/06/02  
DATE OF ANALYSIS: 11/06/02  
EFFECTIVE FILTER AREA (mm<sup>2</sup>): 385

## LABORATORY RESULTS

| CURRNT # | LAB. ID #       | LOCATION            | VOLUME (l) | G.O.'s ANALYZED | ANALYT. AREA (mm <sup>2</sup> ) | ANALYT. SENSITV. (struct./cm <sup>2</sup> ) | TOTAL ASBESTOS AIR CONC. (struct./cm <sup>3</sup> ) | TOTAL ASBESTOS FILTER CONC. (gr./mm <sup>2</sup> ) | AIR CONC. FOR STRUCT. 0.5-5.0µm | AIR CONC. FOR STRUCT. ≥5.0µm | ASBEST. TYPE CHRYS. | ASBEST. TYPE TYPE SPECIFY |
|----------|-----------------|---------------------|------------|-----------------|---------------------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------|------------------------------|---------------------|---------------------------|
| 01       | T02-11-034-3871 | By decon            | 1440       | 4               | 0.0537                          | 0.0050                                      | <0.0050                                             | <18.61                                             | NA                              | NA                           | NA                  | NA                        |
| 02       | T02-11-034-3872 | Exit to the roof    | 1440       | 4               | 0.0537                          | 0.0050                                      | <0.0050                                             | <18.61                                             | NA                              | NA                           | NA                  | NA                        |
| 03       | T02-11-034-3873 | IWA west side of WA | 1440       | 4               | 0.0537                          | 0.0050                                      | <0.0050                                             | <18.61                                             | NA                              | NA                           | NA                  | NA                        |
| 04       | T02-11-034-3874 | IWA middle of WA    | 1440       | 4               | 0.0537                          | 0.0050                                      | <0.0050                                             | <18.61                                             | NA                              | NA                           | NA                  | NA                        |
| 05       | T02-11-034-3875 | IWA left side of WA | 1440       | 4               | 0.0537                          | 0.0050                                      | <0.0050                                             | <18.61                                             | NA                              | NA                           | NA                  | NA                        |

*Carla A. Gao*

ANALYST  
E. Soudin

*Spiro Dongaris*

LABORATORY DIRECTOR  
Spiro Dongaris

- Athenica Environmental Services Inc. (AES), is responsible only for information pertaining to samples taken by its employees.
- Air sampling cassettes will be stored for sixty (60) days. AES Inc., should be notified within this time frame for a true duplicate analysis.
- If AES Inc., did not conduct the sampling, the reported airborne concentration was derived based on information provided by the client. Under these circumstances, the air concentration data is supplied solely for the convenience of the client.
- The report relates only to items tested. This report must not be used to claim product enforcement by NVE AP or any other agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of AES Inc.
- The liability of Athena Environmental Services Inc. with respect to the services charged, shall in no event exceed the amount of the invoice.

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228 East 45th Street  
New York, NY 10017  
(212) 922-0077  
Fax (212) 922-0630

# WARREN & PANZER ENGINEERS, P. C.

## AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

24 hr<sup>+</sup>/a 12 hr<sup>+</sup>/a 6 hr<sup>+</sup>/a 3 hr<sup>+</sup>/a Immediate <sup>+</sup>/a

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P.O.

CLIENT: NYC DEP

W&P FILE #: 079-01-02

CONTACT:

PROJECT: CLEANING ROOF  
LOCATION: 100 CHURCH ST NYC

LABORATORY: WEP

ANALYSIS METHOD: PCM TEM  
circle one 7400 AHERA EPA LEVEL II

TECHNICIAN: DPO ELEMO

| SAMPLE NUMBER | SAMPLE DESCRIPTION/LOCATION | SAMPLE TYPE | PUMP # | FLOWRATE START | STOP | TIME ON | TIME OFF | TOTAL TIME | VOLUME (liters) | CONCENTR. (fib./cc.) |
|---------------|-----------------------------|-------------|--------|----------------|------|---------|----------|------------|-----------------|----------------------|
| 01            | By decon                    | 3           |        | 03             | 03   | 0630    | 1430     | 480        | 1440            |                      |
| 02            | Ex. t to the roof           | 3           |        | 03             | 03   | 0631    | 1431     | 480        | 1440            |                      |
| 03            | WPA Westside of WPA         | 3           |        | 03             | 03   | 0632    | 1432     | 480        | 1440            |                      |
| 04            | middle                      | 3           |        | 03             | 03   | 0633    | 1433     | 480        | 1440            |                      |
| 05            | leftside of WPA             | 3           |        | 03             | 03   | 0635    | 1435     | 480        | 1440            |                      |
| 06            | field blank                 | 1           |        |                |      | NA      | NA       |            |                 |                      |
| 07            | field blank                 | 1           |        |                |      | NA      | NA       |            |                 |                      |
| 08            | Sealed blank                | 1           |        |                |      | NA      | NA       |            |                 |                      |

SAMPLE BY: DPO ELEMO DATE: 11/5/02  
SIGNATURE: DPOE  
RELEASED BY: DPO ELEMO DATE: 11/5/02  
SIGNATURE: DPOE  
RECEIVED BY: A. CATTIGAL DATE: 11/6/02  
SIGNATURE: A. Cattigal

### SAMPLE TYPE CODES

|                              |                               |
|------------------------------|-------------------------------|
| 1 - Blank                    | 5 - Final Clearance (inside)  |
| 2 - Pre-Abatement            | 6 - Final Clearance (outside) |
| 3 - During Abatement         | 7 - Personal                  |
| 4 - During Glove Bag Removal | 8 - Background                |

102-11-034

SEE REVERSE SIDE FOR ANALYSIS INFORMATION