



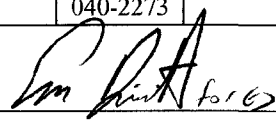
## AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

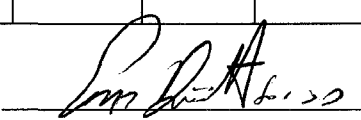
**CLIENT:** Warren & Panzer Engineers, P.C.  
**LABORATORY ID #:** T02-09-040  
**ANALYT. METHODOLOGY:** AHERA  
**FILTER TYPE:** M.C.E.  
**AVERAGE G.O. AREA (mm<sup>2</sup>):** 0.013771

**PROJECT:** NYC DEP, 44 John Street  
**DATE OF REPORT:** 09/13/02  
**DATE OF ANALYSIS:** 09/13/02  
**EFFECTIVE FILTER AREA (mm<sup>2</sup>):** 385

### LABORATORY RESULTS

| CLIENT # | LAB. ID #       | LOCATION       | VOLUME (lt) | G.O.'s ANALYZED | AREA ANALYZED (mm <sup>2</sup> ) | ANALYT. SENSITIV. (struct./cm <sup>3</sup> ) | TOTAL ASBESTOS AIR CONC. (struc./cm <sup>3</sup> ) | TOTAL ASBESTOS FILTER CONC. (str./mm <sup>2</sup> ) | AIR CONC. FOR STRUCT. 0.5≤S<5μm | AIR CONC. FOR STRUCT. S≥5.0μm | ASBEST. TYPE CHYRS. | AMPHIB. ASBEST TYPE SPECIFY |
|----------|-----------------|----------------|-------------|-----------------|----------------------------------|----------------------------------------------|----------------------------------------------------|-----------------------------------------------------|---------------------------------|-------------------------------|---------------------|-----------------------------|
| 01       | T02-09-040-2269 | Personal decon | 1680        | 4               | 0.0551                           | 0.0042                                       | <0.0042                                            | <18.15                                              | NA                              | NA                            | NA                  | NA                          |
| 02       | T02-09-040-2270 | West side      | 1560        | 4               | 0.0551                           | 0.0042                                       | <0.0042                                            | <18.15                                              | NA                              | NA                            | NA                  | NA                          |
| 03       | T02-09-040-2271 | East side 1    | 1560        | 4               | 0.0551                           | 0.0042                                       | <0.0042                                            | <18.15                                              | NA                              | NA                            | NA                  | NA                          |
| 04       | T02-09-040-2272 | East side 2    | 1560        | 4               | 0.0551                           | 0.0042                                       | <0.0042                                            | <18.15                                              | NA                              | NA                            | NA                  | NA                          |
| 05       | T02-09-040-2273 | East side 3    | 1560        | 4               | 0.0551                           | 0.0042                                       | <0.0042                                            | <18.15                                              | NA                              | NA                            | NA                  | NA                          |

  
**ANALYST**  
E. Sioukri

  
**LABORATORY DIRECTOR**  
Spiro Dongaris

### LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

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- 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.
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**ATHENICA**  
ENVIRONMENTAL SERVICES INC.

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**TEM DEPARTMENT**

Tel. (718) 784-7480  
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**TEM AHERA COUNTSHEET**

|                                                                                                                                    |                                           |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>CLIENT :</b> WARREN & PANZER                                                                                                    | <b>DATE :</b> 9/13/02                     |
| <b>PROJECT :</b> NYC DEP / 44 JOHN ST.                                                                                             | <b>ANALYST :</b> E.S.                     |
| <b>BATCH # :</b> T02-09-040                                                                                                        | <b>CLIENT ID # :</b> 01                   |
| <b>SAMPLE ID # :</b> T02-09-040-2269                                                                                               | <b>VOLUME (lt) :</b> 1680                 |
| <b>G.O. AREA (mm<sup>2</sup>) :</b> 0.013771                                                                                       | <b>GO's TO ANALYZE :</b> 4                |
| <b>MAGNIFICATION :</b> 19K                                                                                                         | <b>ACC. VOLTAGE (KeV) :</b> 100           |
| <b>INSTRUMENT :</b> JEOL 100CX II                                                                                                  | <b>FILTER AREA (mm<sup>2</sup>) :</b> 385 |
| <b>ANALYTICAL METHODOLOGY:</b> EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40<br>CFR, PART 763, APPENDIX A TO SUBPART E |                                           |

| GRI<br>D | GO<br>ID | Str.<br># | Str.<br>Classf. | L<br>(μm) | W<br>(μm) | Structure sketch | SAE<br>D | EDXA | PHO<br>TO# | ID |
|----------|----------|-----------|-----------------|-----------|-----------|------------------|----------|------|------------|----|
| A        | C3       | NSD       |                 |           |           |                  |          |      |            |    |
|          | G8       | NSD       |                 |           |           |                  |          |      |            |    |
| B        | D8       | NSD       |                 |           |           |                  |          |      |            |    |
|          | F5       | NSD       |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |
|          |          |           |                 |           |           |                  |          |      |            |    |

|                                                       |                                                   |
|-------------------------------------------------------|---------------------------------------------------|
| Analytical Sensitivity (str/cm <sup>3</sup> ): 0.0042 | Eucentricity check :                              |
| Concentration (str/cm <sup>3</sup> ): 20.0042         | *Grid acceptance criteria check : (A).... (B).... |
| Concentration (str/mm <sup>2</sup> ): 218.15          | **CHR. # STRUCT.: F M C B                         |
| Number of Asbestos Structures : 0.5 ≤ S < 5 μm @ ...  | **AMPH. # STRUCT.: F M C B                        |
| S ≥ 5 μm ..... 0                                      | Specify AMPH. Type : AM. ACT. TRE.                |
| Number of Non-asbestos Structures: ..... 0            | CRO. ANTH.                                        |

\*Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.  
 \*\* CHR.=chrysotile, AMPH.=amphibole, AM.=amosite, ACT.=actinolite, TRE.=tremolite, CRO.=crocidolite, ANTH.=anthophyllite.







