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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 09/17/01

ASBESTOS FIBER ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY (TEM)

With Fiber Identification by Selected-Area Electron Diffraction (SAED) and Energy-Dispersive X-RAY Spectroscopy (EDS)

Method: AHERA Final Rule, EPA Federal Register (40 CFR, Part 763), Vol. 52, No. 210, October 30, 1987

Sample Identification

Analysis Parameters

Project/Site: World Trade Center, NY, NY
Personal Exposure Monitoring
Date Received: 09/17/01

TEM Sample No.: 5517 - 59057

Project Sample No.: NYE-009

Grid Openings Analyzed: 10

Air Volume: 120 liters

Average Grid Opening: 106.00 um

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Total Area Analyzed: 0.1124 mm2

Analytical Sensitivity: 8.9 s/mm2
0.0285 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>					
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct.	Total Struct. >=5um	Filter Struct/mm2	Air Struct/cc	ngm/m3
Chrysotile Asbestos	14	1	1	24	40	8	355.9	1.1418	37678
Amphibole Asbestos	0	0	0	0	0	0	0.0	0.0000	0
Ambiguous	0	0	0	0	0	0	0.0	0.0000	0
Total asbestos (includes ambiguous structures)					40	8	355.9	1.1418	37678
Non-Asbestos	0	0	0	0	0	0	0.0	0.0000	N/A
No Identification	0	0	0	0	0	0	0.0	0.0000	N/A
Totals (All Structures)					40	8	355.9	1.1418	N/A

The estimated uncertainty of this analysis is 1 standard deviation.

Non-asbestos fiber i.d. (EDS/SAED): None detected
Amphibole Asbestos Type: None detected

The Analysis was carried out in accordance with the approved TEM method.
This laboratory is in compliance with the quality specified for the method.

Analyzed by:

Report Reviewed by:

Roman Peysakhov

Michael A. Gorycki, Ph.D.
Director of Electron Microscopy