NYC 9/11 Public Portal Document

ATC ASSOCIATES INC. – TEM ANALYSIS

LAB GROUP #: 5687 - 10/14/01

Lab Sample No. 61056 | Filter Type MCE 25 mm | Operator RP

Client Spl. No. NSHS-EIR-10/13-03 | Filter Area 385 mm^2 | 457

Instrument I.D. EM 10 CRX | Grid I.D. _____ | Disk No. _____

Screen Magnification 16,400X | (GO) Area 0.01124 mm^2 | Comments _____

Acc. Voltage 80 kV | No. GO to be Analyzed 4 | (3.147 Struct. Corspd. to 70 s/mm^2.)

GO. No.	GO. Coord.	Structure No.	Structure Type F	B	C	M	Length ≥0.5 um < 5 um	Length ≥ 5um	I.D. of Structure Chrys.	Amphibole	Nonasb.	N or ✓ Ambig./ND	EDS (Nonasb. Elements)
5P 1	H9	NSD											
2	I2	"											
3	J1	"											
4	I4	"											
5R													

Photo No. (from 1 in 5 asbestos-containing samples)

Identify all structures using EDS

Check diffraction for asbestos structures up to 70s/mm² (1st 4)

Store all unrepeated spectra

Struct. = ≥ 0.5um & > 5:1 Aspect Ratio

N= Not Observed (EDS spectrum or diffraction pattern)

✓= Positive diffraction pattern properties conforming to laboratory identification criteria observed.
For chrysotile: 0.73nm spacing for (020) reflections, 0.53nm spacing for the layer line repeat, streaking of (110) and (130) reflections.
For amphiboles: 0.53nm layer line repeat, and approx. 3.5 ratio of non-twinned layer line spot spacing to layer line repeat distance (0.53nm).

✓= EDS spectrum conforming to laboratory identification criteria observed.

F= Single Fiber (1-3 intersections = 1-3 fibers)
B= Bundle (>3 fibers <1 fiber diameter apart)
C= Cluster (>3 intersections)
M= Matrix
NSD= No Structures Detected

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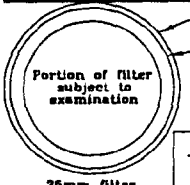
Grid acceptance:
<50% undissolved filter, overlapped or folded
<10% particulate coverage >50% coverage
at least 20 unfolded or overlapped grid squares
<5% holes or opaque areas



Stopping Rules:
>50 s/G.O. or in 1st 4 G.O.

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	≥ 5um
Chrysotile					
Amphibole					
Ambiguous					
Non-asbestos					
Non-Identified					

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