

ATC Environmental, Inc.
104 East 25th Street
New York, New York 10010

ATC Associates Inc.
104 East 25th Street
New York, NY 10010

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/11/01

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. 99 Church Street, 99 Church St , NY, NY

8th Floor

Date Received 10/10/01

Project Sample No. 8-2

Air Volume 1800 liters

Filter Type MCE 25 mm diam , Pore Size 0.45 um

Effective Area 385 mm2

TEM Sample No 5660 - 60863

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed 0.0450 mm2

Analytical Sensitivity 22.2 s/mm2

0.0048 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total Struct >=5um	Filter		Air
	Fibers	Bundles	Clusters		Struct		Struct/mm2	Struct/cc	
Chrysotile Asbestos	0	0	0	0	0	0	0.0	0.0000	0
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)					0	0	0.0	0.0000	0
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)					0	0	0.0	0.0000	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

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

Sample Identification

Analysis Parameters

Project/Site: 99 Church Street, 99 Church St , NY, NY

TEM Sample No. 5660 - 60864

8th Floor

Date Received 10/10/01

Grid Openings Analyzed 4

Project Sample No 8-3

Average Grid Opening 106.00 um

Air Volume 1800 liters

Total Area Analyzed 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size 0.45 um

Analytical Sensitivity 22.2 s/mm2

Effective Area 385 mm2

0.0048 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total Struct >=5um	Filter		Air
	Fibers	Bundles	Clusters				Struct/mm2	Struct/cc	
Chrysotile Asbestos	0	0	0	0	0	0	0.0	0.0000	0
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)					0	0	0.0	0.0000	0
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)					0	0	0.0	0.0000	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.

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

Sample Identification

Analysis Parameters

Project/Site 99 Church Street, 99 Church St., NY, NY

8th Floor

Date Received. 10/10/01

TEM Sample No. 5660 - 60865

Grid Openings Analyzed 4

Project Sample No. 8-4

Average Grid Opening 106.00 um

Air Volume 1800 liters

Total Area Analyzed 0.0450 mm²

Filter Type MCE 25 mm diam., Pore Size 0.45 um

Analytical Sensitivity: 22.2 s/mm²

Effective Area: 385 mm²

0.0048 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total Struct. >=5um	Filter		Air
	Fibers	Bundles	Clusters		Struct.		Struct./mm ²	Struct./cc	
Chrysotile Asbestos	0	0	0	0	0	0	0.0	0.0000	0
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)					0	0	0.0	0.0000	0
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)					0	0	0.0	0.0000	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.

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Sample Identification

Analysis Parameters

Project/Site: 99 Church Street, 99 Church St., NY, NY

8th Floor

Date Received: 10/10/01

Project Sample No. .8-5

Air Volume: 1800 liters

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um

Effective Area: .385 mm2

TEM Sample No. 5660 - 60866

Grid Openings Analyzed: 4

Average Grid Opening 106.00 um

Total Area Analyzed 0.0450 mm2

Analytical Sensitivity 22.2 s/mm2

0.0048 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total Struct >=5um	Filter		Air
	Fibers	Bundles	Clusters		Struct.		Struct/mm2	Struct/cc	
Chrysotile Asbestos	0	0	0	0	0	0	0.0	0.0000	0
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)					0	0	0.0	0.0000	0
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)					0	0	0.0	0.0000	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.

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Sample Identification

Analysis Parameters

Project/Site: 99 Church Street, 99 Church St , NY, NY

8th Floor

Date Received 10/10/01

Project Sample No. 8-6

Air Volume: 1800 liters

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um

Effective Area: 385 mm2

TEM Sample No 5660 - 60867

Grid Openings Analyzed 4

Average Grid Opening 106.00 um

Total Area Analyzed 0.0450 mm2

Analytical Sensitivity 22.2 s/mm2

0.0048 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total Struct >=5um	Filter		Air
	Fibers	Bundles	Clusters	Struct	Struct		Struct/mm2	Struct/cc	
Chrysotile Asbestos	0	0	0	0	0	0	0.0	0.0000	0
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)					0	0	0.0	0.0000	0
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)					0	0	0.0	0.0000	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.
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