NYC 9/11 Public Portal Document

APPENDIX B - TEM AIR SAMPLE RESULTS DURING CLEANING

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 18, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8841:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: All Apartments
Samples received: 09/16/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York. NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/16/02 8:00:00 AM
ATC Group #: 8841
Analysis Date: 9/18/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8841 -1	2430.00			Not Analyzed						Overloaded with particulates
05 8841 -2	2420.00	0.0450	0	None Detected	0	0	0.0035	<22.24	<0.0035	
06 8841 -3	2410.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
07 8841 -4	2420.00	0.0450	0	None Detected	0	0	0.0035	<22.24	<0.0035	
08 8841 -5	2420.00	0.0450	0	None Detected	0	0	0.0035	<22.24	<0.0035	
09 8841 -6	2400.00			Not Analyzed						Overloaded with particulates
10 8841 -7	2400.00	0.0450	0	CHRYSOTILE	2	0	0.0036	44.48	0.0071	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129727

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/16/02 8:00:00 AM
ATC Group #: 8841
Analysis Date: 9/18/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8841 -8	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
12 8841 -9	2400.00	0.0450	0	CHRYSOTILE	1	1	0.0036	44.48	0.0071	
13 8841 -10	2410.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
14 8841 -11	2410.00	0.0450	0	CHRYSOTILE	3	0	0.0036	66.73	0.0107	
15 8841 -12	2420.00	0.0450	0	None Detected	0	0	0.0035	<22.24	<0.0035	
16 8841 -13	2420.00	0.0450	0	None Detected	0	0	0.0035	<22.24	<0.0035	
17 8841 -14	2430.00	0.0450	0	CHRYSOTILE	1	0	0.0035	22.24	0.0035	
18 8841 -15	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
19 8841 -16	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

ROMAN PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph D.
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129728

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/16/02 8:00:00 AM
ATC Group #: 8841
Analysis Date: 9/18/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
20 8841 -17	2390.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
21 8841 -18	2390.00	0.0450	0	CHRYSOTILE	1	1	0.0036	44.48	0.0072	
22 8841 -19	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
23 8841 -20	2410.00	0.0450	0	CHRYSOTILE	2	0	0.0036	44.48	0.0071	
24 8841 -21	2000.00	0.0450	0	None Detected	0	0	0.0043	<22.24	<0.0043	
25 8841 -22	2000.00	0.0450	0	None Detected	0	0	0.0043	<22.24	<0.0043	
26 8841 -23	2000.00			Not Analyzed						Overloaded with particulates
27 8841 -24	2000.00	0.0450	0	CHRYSOTILE	1	0	0.0043	22.24	0.0043	
28 8841 -25	1990.00	0.0450	0	CHRYSOTILE	0	1	0.0043	22.24	0.0043	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129729

NYC-WTC_000129730

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8841 2428 2446-2473

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22906-0002		SD-90
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
09.15.02	All apartments	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03		v		Field Blank									
04		v		Apartment	6:18	10:21	243	10	10	10	2430		
05		v		— " —	6:22	10:24	242	10	10	10	2420		
06		v		— " —	6:27	10:28	241	10	10	10	2410		
07		v		— " —	6:30	10:32	242	10	10	10	2420		
08		v		— " —	6:33	10:35	242	10	10	10	2420		
09		v		— " —	6:37	10:37	240	10	10	10	2400		
10		v		— " —	6:41	10:41	240	10	10	10	2400		
11		v		— " —	10:21	1421	240	10	10	10	2400		
12		v		— " —	10:24	1424	240	10	10	10	2400		
13		v		— " —	10:28	1429	241	10	10	10	2410		
14		v		— " —	10:32	1433	241	10	10	10	2410		

PII

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		9.15.2	
II	JP	9/16/02	8am
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RLey	9/18/02	11:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
F. Burkhardt	F. Burkhardt	
	Beeper/Phone #'s _____	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129731

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 2 of 3

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8841

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number
DEP	DEP Clean-up	15-22506-0002		SD-93
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanowicz	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
09.15.02	All apartments	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # 916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15		v		[redacted] apartment	10:35	1437	242	10	10	10	2420		
16		v		— " —	10:37	1439	242	10	10	10	2420		
17		v		— " —	10:41	1444	243	10	10	10	2430		
18				[redacted]	1450	1850	240	10	10	10	2400		
19				[redacted]	1454	1854	240	10	10	10	2400		
20				[redacted]	1500	1859	239	10	10	10	2390		
21				[redacted]	1504	1903	239	10	10	10	2390		
22				[redacted]	1509	1909	240	10	10	10	2400		
23				[redacted]	1512	1913	241	10	10	10	2410		
24				[redacted]	1920	2240	200	10	10	10	2000		
25				[redacted]	1924	2244	200	10	10	10	2000		
26				[redacted]	1930	2251	201	10	10	10	2000		

PII

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By.	20. Date:	21. Time:
I E. Lemanowicz		9.15.2	
II	FED	9/16/02	8 am
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: R Roy	9/18/02	11:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
F. Burkhardt	F. Burkhardt	
	Beeper/Phone #'s _____	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1.01)

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ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 3 of 3

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8841

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean up	22906-02		SD-003
	2a. Project Address	3a. Task # 02	4a. Air Sampler: Tim Amstislavskiy	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9.15.02	Entire	Cassette/Filter Manufacture X Lot #	Cassette/Filter Manufacture MMI Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other Cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
27				PII	1934	2254	200	10	10	10	2000		
28					1938	2257	199	10	10	10	1990		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JD	9/16/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC - TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/18/02	11:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1.01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 15, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8835:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: 1st Floor to Penthouse
Samples received: 09/14/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received <u>full accreditation</u> from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC-WTC_000129733

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street

Received: 9/14/02 3:00:00 AM
ATC Group #: 8835
Analysis Date: 9/15/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
03 *8835 -1*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
04 *8835 -2*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
05 *8835 -3*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
06 *8835 -4*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
07 *8835 -5*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
08 *8835 -6*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
09 *8835 -7*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129734

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9 14 02 3:00:00 AM
ATC Group #: 8835
Analysis Date: 9/15 02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
10 8835 -8	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
11 8835 -9	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
12 8835 -10	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
13 8835 -11	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
14 8835 -12	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
15 8835 -13	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
16 8835 -14	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
17 8835 -15	2400.00	0.0450	0	CHRYSOTILE	2	0	0.0036	44.48	0.0071	
18 8835 -16	2400.00	0.0450	0	CHRYSOTILE	1	3	0.0036	88.97	0.0143	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only respon for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request

Accredited for NVLAP PLM/TEM #:101187-0, NY State ELAP #10879

NYC-WTC_000129735

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/14/02 3:00:00 AM
ATC Group #: 8835
Analysis Date: 9/15/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
19 8835 -17	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
20 8835 -18	2400.00			Not Analyzed						Overload with particulates
21 8835 -19	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
22 8835 -20	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
23 8835 -21	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
24 8835 -22	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
25 8835 -23	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
26 8835 -24	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
27 8835 -25	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101874-0, NY State ELAP #10879

NYC-WTC_000129736

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/14/02 3:00:00 AM
ATC Group #: 8835
Analysis Date: 9/15/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
28 8835 -26	2400.00	0.0450	0	CHRYSOTILE	1	1	0.0036	44.48	0.0071	
29 8835 -27	2400.00			Not Analyzed						Overloaded with particulates
30 8835 -28	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
31 8835 -29	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
32 8835 -30	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
33 8835 -31	2400.00	0.0450	0	CHRYSOTILE	4	1	0.0036	111.21	0.0178	
34 8835 -32	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
35 8835 -33	2400.00			Not Analyzed						Overloaded with particulates
36 8835 -34	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129737

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/14/02 3:00:00 AM
ATC Group #: 8835
Analysis Date: 9/15/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
37 8835 -35	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
38 8835 -36	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
41 8835 -37	2400.00	0.0450	0	CHRYSOTILE	0	2	0.0036	44.48	0.0071	
42 8835 -38	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
43 8835 -39	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
44 8835 -40	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
45 8835 -41	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
46 8835 -42	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
47 8835 -43	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by

Disclaimer: The laboratory is not responsible for data reported on structures/cc, which is dependent on volume collected by non-laboratory personnel. This test is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This results relates only to the samples reported above. Quality control data including 95% confidence limits and laboratory and analysis' accuracy and precision is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10873

NYC-WTC_000129738

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/14/02 3:00:00 AM
ATC Group #: 8835
Analysis Date: 9/15/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
48 8835 -44	1500.00			Not Analyzed						Overloaded with particulates
49 8835 -45	1500.00			Not Analyzed						Overloaded with particulates
50 8835 -46	1500.00			Not Analyzed						Overloaded with particulates
51 8835 -47	1500.00	0.0562	0	CHRYSOTILE	6	4	0.0046	177.94	0.0457	
52 8835 -48	1500.00	0.0562	0	CHRYSOTILE	0	1	0.0046	17.79	0.0046	
54 8835 -49	1500.00	0.0562	0	CHRYSOTILE	1	2	0.0046	53.38	0.0137	
55 8835 -50	1500.00	0.0562	0	CHRYSOTILE	1	1	0.0046	35.59	0.0091	
56 8835 -51	1500.00	0.0562	0	None Detected	0	0	0.0046	<17.79	<0.0046	
57 8835 -52	1500.00	0.0562	0	None Detected	0	0	0.0046	<17.79	<0.0046	

MARK PEYSAKHOV
Analyzed by: RPeysakhov

MICHAEL A. GORYCKI, Ph.D
Approved by: Michael A. Goryck

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This laboratory responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report relates only to the samples reported above. Quality control data including 95% confidence limits and laboratory and analysis accuracy and precision is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129739

NYC-WTC_000129740

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

EE35 46157 2166-2222

Page 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☑ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	22906.0002	Paul Pavlidis	
	2a. Project Address: 125 Cedar St.	3a. Task # 2	4a. Air Sampler: C Ruben Acosta	HP-097

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-13-02	From 1st Fl to Penhouse	Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: Nuclepore Lot #: 96116788	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			✓	on hallway Penhouse	8:05	12:05	240	10.0	10.0	10.0	2400		
04			✓	on hallway 12th Fl.	8:07	12:07	240	10.0	10.0	10.0	2400		
05			✓	on hallway 11th Fl.	8:09	12:09	240	10.0	10.0	10.0	2400		
06			✓	on hallway 10th Fl	8:11	12:11	240	10.0	10.0	10.0	2400		
07			✓	on hallway 9th Fl	8:13	12:13	240	10.0	10.0	10.0	2400		
08			✓	on hallway 8th Fl	8:15	12:15	240	10.0	10.0	10.0	2400		
09			✓	on hallway 7th Fl	8:17	12:17	240	10.0	10.0	10.0	2400		
10			✓	on hallway 6th Fl	8:20	12:20	240	10.0	10.0	10.0	2400		
11			✓	on hallway 5th Fl	8:22	12:22	240	10.0	10.0	10.0	2400		
12			✓	on hallway 4th Fl	8:25	12:25	240	10.0	10.0	10.0	2400		
13			✓	on hallway 3rd Fl	8:29	12:29	240	10.0	10.0	10.0	2400		
14			✓	inside clean room Pos.	8:31	12:31	240	10.0	10.0	10.0	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I R. Acosta		9/14	3:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RPay	9/15/02	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burklund

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129741

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

#635

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☑ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name: DEP Clean-up	3. Project #: 22906-0002	4. Project Monitor: Paul Purcell	4c. Rotameter Number:
Dep	2a. Project Address: 125 Cedar St.	3a. Task #: 2	4a. Air Sampler: Ruben Acosta	HP-097

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-13-02	From 1st Fl To Penthouse	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: Nuclepore Lot #: _____	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11 Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15			✓	Inside Waste Decon	8:35	12:35	240	10.0	10.0	10.0	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I. R. Acosta	[illegible]	9/14	3:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RPuig	9/15/02	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Bukhart

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NYC-WTC_000129742

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND 6835 CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name / 2a. Project Address	3. Project # / 3a. Task #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
DEP	Dep clean-up / 125 cedar ST	22906.0002 / 2	Ruben Acosta	RP-097

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.13.02	From 1st Fl. To Penhouse	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture Nuclepore Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
16			✓	on hallway Penthouse	12:05	1605	240	10.0	10	10	2400		
17			✓	on hallway 12TH FL.	12:07	1607	240	10.0	10	10	2400		
18			✓	on hallway 11TH FL	12:09	1609	240	10.0	10	10	2400		
19			✓	on hallway 10TH FL	12:11	1611	240	10.0	10	10	2400		
20			✓	on hallway 9TH FL	12:13	1613	240	10.0	10	10	2400		
21			✓	on hallway 8TH FL	12:15	1615	240	10.0	10	10	2400		
22			✓	on hallway 7TH FL	12:17	1617	240	10.0	10	10	2400		
23			✓	on hallway 6TH FL	12:20	1620	240	10.0	10	10	2400		
24			✓	on hallway 5TH FL	12:22	1622	240	10.0	10	10	2400		
25			✓	on hallway 4TH FL	12:25	1625	240	10.0	10	10	2400		
26			✓	on hallway 3TH FL	12:29	1629	240	10.0	10	10	2400		
27			✓	inside clean room	12:31	1631	240	10.0	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I R. Acosta		9/14	3:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: ERly	9/15/02	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To. _____ Beeper/Phone #'s _____
Fred Burkhard	

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129743

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

6635

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name: OEP Clean-up	3. Project #: 22406-0002	4. Project Monitor:	4c. Rotameter Number:
OEP	2a. Project Address: 125 Cedar St	3a. Task #: 2	4a. Air Sampler: C Ruben Acosta	HP-097

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-13-02		Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: Nuclepore Lot #: _____	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15 Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
28			✓	Inside Waste room	12:35	1635	240	10.0	10	10	2400		
29			✓	Hallway PEN House	1605	2005	240	10.0	10	10	2400		
30			✓	Hallway 12 Fl	1607	2007	240	10.0	10	10	2400		
31			✓	Hallway 11 Fl	1609	2009	240	10.0	10	10	2400		
32			✓	Hallway 10 Fl	1611	2011	240	10.0	10	10	2400		
33			✓	Hallway 9 Fl	1613	2013	240	10.0	10	10	2400		
34			✓	Hallway 8 Fl	1615	2015	240	10.0	10	10	2400		
35			✓	Hallway 7 Fl	1617	2017	240	10.0	10	10	2400		
36			✓	Hallway 6 Fl	1620	2020	240	10.0	10	10	2400		
37			✓	Hallway 5 Fl	1622	2022	240	10.0	10	10	2400		
38			✓	Hallway 4 Fl	1625	2025	240	10.0	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I. R. Acosta		9/16	3:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RBuy	9/15/02	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhard

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NYC-WTC_00012974

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

6635

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

22906.0002

1. Client:	2. Project Name	3. Project #	4. Project Monitor	4c. Rotameter Number:
DLP	DLP CLEAN UP		AMSTISLAVSKY	
	2a. Project Address: 125 CEDAR ST	3a. Task # 02	4a. Air Sampler: Johnson	CS 601

5. Date:	6. Abatement Location:	7. [redacted] MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:		
9/13/L	ENTIRE BLD.	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate	c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA	f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location			13. Time (24 hrs clock)			14. Flow Rate (L/min.)			15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
		12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
39				Field Blank									
40				Field Blank									
41			✓	HALLWAY 3 FL.	1629	2029	240	10	10	10	2400		
42			✓	INSIDE CLEAN RM	1631	2031	240	10	10	10	2400		
43			✓	INSIDE WASTE.	1635	2035	240	10	10	10	2400		
44			✓	HALLWAY PENTHOUSE	2005	2235	150	10	10	10	1500		
45			✓	HALLWAY 12 FL	2007	2237	150	10	10	10	1500		
46			✓	HALLWAY 11 FL	2009	2239	150	10	10	10	1500		
47			✓	HALLWAY 10 FL	2011	2241	150	10	10	10	1500		
48			✓	HALLWAY 9 FL	2013	2243	150	10	10	10	1500		
49			✓	HALLWAY 8 FL	2015	2245	150	10	10	10	1500		
50			✓	HALLWAY 7 FL	2017	2247	150	10	10	10	1500		
51			✓	HALLWAY 6 FL	2020	2250	150	10	10	10	1500		
52			✓	HALLWAY 5 FL	2022	2252	150	10	10	10	1500		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	[illegible] ACOSTA	[illegible]	9/14	3:[illegible]
II				
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC - TEM		23. Date:	24. Time:
	a. Analyzed By: R Rey	9/15/02	13:00
	b. QC By:		
	c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129745

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

6835

Page 4 of 4

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

22506-0002

1. Client:	2. Project Name	3. Project #	4. Project Monitor	4c. Rotameter Number
DEP	DEP CLEAN UP		MASTISLAWSKY	
	2a. Project Address: 125 CEDAR	3a. Task # 0002	4a. Air Sampler: JOHNS—	C5001

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
1-13-02	ENTIRE	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
53				Field Blank									
54				HALLWAY 4 FL	2025	2255	150	10	10	10	1520		
55				HALLWAY 3 FL	2029	2259	150	10	10	10	1520		
56				INSIDE CLEAN RM.	2031	2301	150	10	10	10	1520		
57				INSIDE WASTE	2035	2305	150	10	10	10	1520		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [illegible]	[illegible]	1/14	8:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRey	1/15/02	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: T Burke Hand

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 16, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8838:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/15/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/15/02 7:00:00 AM
ATC Group #: 8838
Analysis Date: 9/16/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8838 -1	2130.00	0.0450	0	CHRYSOTILE	0	1	0.0040	22.24	0.0040	
05 8838 -2	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
06 8838 -3	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
07 8838 -4	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
08 8838 -5	2400.00			Not Analyzed						Overloaded with particulates
09 8838 -6	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
10 8838 -7	2400.00			Not Analyzed						Overloaded with particulates

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129747

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/15/02 7:00:00 AM
ATC Group #: 8838
Analysis Date: 9/16/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5u-5	# Structures 5u	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8838 -8	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
12 8838 -9	2400.00	0.0450	0	CHRYSOTILE	2	0	0.0036	44.48	0.0071	
13 8838 -10	2400.00			Not Analyzed						Overloaded with particulates
14 8838 -11	2410.00			Not Analyzed						Overloaded with particulates
15 8838 -12	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
16 8838 -13	2400.00			Not Analyzed						Overloaded with particulates
17 8838 -14	2410.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
18 8838 -15	2420.00	0.0450	0	None Detected	0	0	0.0035	<22.24	<0.0035	
19 8838 -16	2420.00			Not Analyzed						Overloaded with particulate

ROMAN PEYSAKHOV
Analyzed by: RRP

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10872

NYC-WTC_000129748

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/15/02 7:00:00 AM
ATC Group #: 8838
Analysis Date: 9/16/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
20 *8838 -17*	2400.00			Not Analyzed						Overloaded with particulates
21 *8838 -18*	2400.00	0.0450	0	CHRYSOTILE	3	1	0.0036	88.97	0.0143	
22 *8838 -19*	2380.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
23 *8838 -20*	2390.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
24 *8838 -21*	2380.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
25 *8838 -22*	1200.00	0.0674	0	None Detected	0	0	0.0048	<14.83	<0.0048	
26 *8838 -23*	1200.00	0.0674	0	CHRYSOTILE	0	1	0.0048	14.83	0.0048	
27 *8838 -24*	1190.00	0.0674	0	None Detected	0	0	0.0048	<14.83	<0.0048	
28 *8838 -25*	1190.00	0.0674	0	None Detected	0	0	0.0048	<14.83	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report relates only to the samples reported above. Quality control data including 95% confidence limits and laboratory and analysis accuracy and precision is available upon request.

Accredited for NVLAP PLM/TEM #101197-0 NY State ELAP #10879

NYC-WTC_000129749

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/15/02 7:00:00 AM
ATC Group #: 8838
Analysis Date: 9/16/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
29 *8838 -26*	1190.00	0.0674	0	None Detected	0	0	0.0048	<14.83	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129750

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC

Page _____ of _____

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8938 2029 2268-2296

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean - up	15-22906-00002		SD - 90
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
09.14.02	All apartments	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03				Field Blank									
04		✓		PII Apartment PII	06:20	09:53	213	10	10	10	2130		
05		✓		Apartment	06:25	10:25	240	10	10	10	2400		
06		✓		Apartment	06:30	10:30	240	10	10	10	2400		
07		✓		Apartment	06:34	10:38	244	10	10	10	2440		
08		✓		Apartment	06:37	10:37	240	10	10	10	2400		
09		✓		Apartment	06:41	10:41	240	10	10	10	2400		
10		✓		Apartment	06:45	10:45	240	10	10	10	2400		
11		✓		Apartment	10:25	1425	240	10	10	10	2400		
12		✓		Apartment	10:30	1430	240	10	10	10	2400		
13		✓		Apartment	10:37	1437	240	10	10	10	2400		
14		✓		Apartment	10:41	1442	241	10	10	10	2410		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
E. Lemanovich	R. Riley	9/16/02	7:00
I			
II			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: R. Riley	9/16/02	10:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129751

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC

8838

Page _____ of _____

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

Client:	2. Project Name: DEP clean-up	3. Project #: 22906.02	4. Project Monitor:	4c. Rotameter Number:
DEP	2a. Project Address: 125 Cedarst NYNY	3a. Task #: 02.	4a. Air Sampler: TimAmstislavsky	SD-005

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9.14.02	Entire	Cassette/Filter Manufacture: X Lot #:	Cassette/Filter Manufacture: MMI Lot #:	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15		V		PII Apartment PII	1045	1445	240	10	10	10	2400		
16		V		11	1235	1635	240	10	10	10	2400		
17		V		11	1242	1643	241	10	10	10	2410		
18		V		11	1246	1648	242	10	10	10	2420		
19		V		11	1249	1651	242	10	10	10	2420		
20		V		11	1638	2038	240	10	10	10	2400		
21		V		11	1640	2040	240	10	10	10	2400		
22		V		11	1651	2049	238	10	10	10	2380		
23		V		11	1655	2054	239	10	10	10	2390		
24		V		PII	1700	2058	238	10	10	10	2380		
25		V		11	2038	2238	120	10	10	10	1200		
26		V		11	2040	2240	120	10	10	10	1200		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
	RRay	9/15/02	9:00
I			
II			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRay	9/16/02	10:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s: _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129752

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8838

Page _____ of _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Cleon - UP	22906-02		SD-003
	2a. Project Address: 125 Cedar St NY NY	3a. Task # 02	4a. Air Sampler: Tim Hnstislavsky	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9.14.02	Entire	Cassette/Filter Manufacture X Lot #	Cassette/Filter Manufacture MMI Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☒ Other cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17 Fiber Conc. F/CC
				Field Blank									
				Field Blank									
27				PII	2049 ~~1949~~	2248	119	10	10	10	1190		
28					2054 ~~1954~~	2253	119	10	10	10	1190		
29.					2057 ~~1957~~	2256	119	10	10	10	1190		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]	R Ruy	9/15/02	7:00
I			
II			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: R Ruy	9/16/02	10:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt.
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129753

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 18, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8844:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: All Apartments
Samples received: 09/16/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/16/02 4:30:00 PM
ATC Group #: 8844
Analysis Date: 9/18/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8844 -1	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
05 8844 -2	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
06 8844 -3	2500.00	0.0450	0	None Detected	0	0	0.0034	<22.24	<0.0034	
07 8844 -4	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
08 8844 -5	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
09 8844 -6	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
10 8844 -7	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129755

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/16/02 4:30:00 PM
ATC Group #: 8844
Analysis Date: 9/18/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8844 -8	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
12 8844 -9	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
13 8844 -10	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
14 8844 -11	2300.00	0.0450	0	CHRYSOTILE	1	1	0.0037	44.48	0.0074	
15 8844 -12	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
16 8844 -13	2390.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
17 8844 -14	2390.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
18 8844 -15	2380.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
19 8844 -16	2370.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129756

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/16/02 4:30:00 PM
ATC Group #: 8844
Analysis Date: 9/18/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures ≥0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
20 8844 -17	2370.00	0.0450	0	CHRYSOTILE	1	1	0.0036	44.48	0.0072	
21 8844 -18	2360.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129757

NYC-WTC_000129758

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8944 18/21 2474-2494

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP clean-up	15-22906-0002		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.16.02	All apartments	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03				Field Blank									
04		✓		Floor Apartment	6:20	10:20	240	10	10	10	2400		
05		✓			6:21	10:21	240	10	10	10	2400		
06		✓			6:23	10:23	240	10	10.5	10.25	2500		
07		✓			6:25	10:25	240	10	10	10	2400		
08		✓			6:26	10:26	240	10	10	10	2400		
09		✓			6:28	10:28	240	10	10	10	2400		
10		✓			6:30	10:30	240	10	10	10	2400		
11		✓			6:32	10:32	240	10	10	10	2400		
12		✓			6:34	10:34	240	10	10	10	2400		
13		✓			10:20	14:20	240	10	10	10	2400		
14		✓			10:21	14:21	240	10	9.5	9.75	2300		

PII

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I. E Lemanovich	JZ	9/16/02	16:30
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/18	12:15
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A

26. ATC Project Manager: F. Burkhardt

27. Result To: ____

28. Comments:

NYC-WTC_000129759

ATC ASSOCIATES INC

8844

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP - Clean - up	15-22906-0002		SD - 006
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.16.02	All apartments	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15		V		4 Floor Apartment	10:23	14:23	240	10	10	10	2400		
16		V			10:25	14:24	239	10	10	10	2390		
17		V			10:26	14:25	239	10	10	10	2390		
18		V			10:28	14:26	238	10	10	10	2380		
19		V			10:30	14:27	237	10	10	10	2370		
20		V			10:32	14:29	237	10	10	10	2370		
21		V			10:34	14:30	236	10	10	10	2360		

PII

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		9.16.2	
II	JD	9/16/02	16:30
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: DEP	23. Date:	24. Time:
a. Analyzed By:	9/18	12:15
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
F. Burkhardt	F. Burkhardt	
	Beeper/Phone #'s _____	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

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NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 17, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8840:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: 1st Floor to Penthouse
Samples received: 09/16/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/16/02 8:00:00 AM
ATC Group #: 8840
Analysis Date: 9/17/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8840 -1	2450.00	0.0450	0	None Detected	0	0	0.0035	<22.24	<0.0035	
04 8840 -2	2450.00	0.0450	0	CHRYSOTILE	1	2	0.0035	66.73	0.0105	
05 8840 -3	2450.00	0.0450	0	CHRYSOTILE	2	0	0.0035	44.48	0.0070	
06 8840 -4	2450.00	0.0450	0	None Detected	0	0	0.0035	<22.24	<0.0035	
07 8840 -5	2450.00	0.0450	0	None Detected	0	0	0.0035	<22.24	<0.0035	
08 8840 -6	2450.00	0.0450	0	CHRYSOTILE	1	0	0.0035	22.24	0.0035	
09 8840 -7	2450.00	0.0450	0	CHRYSOTILE	0	1	0.0035	22.24	0.0035	

ROMAN PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph.D
Approved by

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129761

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/16/02 8:00:00 AM
ATC Group #: 8840
Analysis Date: 9/17/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
10 8840 -8	2450.00	0.0450	0	CHRYSOTILE	1	0	0.0035	22.24	0.0035	
11 8840 -9	2450.00	0.0450	0	CHRYSOTILE	3	3	0.0035	133.45	0.0210	
12 8840 -10	2450.00			Not Analyzed						Overloaded with particulates
13 8840 -11	2450.00	0.0450	0	CHRYSOTILE	0	2	0.0035	44.48	0.0070	
14 8840 -12	2450.00	0.0450	0	AMOSITE	0	1	0.0035	22.24	0.0035	
15 8840 -13	2450.00	0.0450	0	CHRYSOTILE	1	2	0.0035	66.73	0.0105	
16 8840 -14	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
17 8840 -15	2400.00	0.0450	0	CHRYSOTILE	2	0	0.0036	44.48	0.0071	
18 8840 -16	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	

ROMAN PEYSAKHOV
Analyzed by

MICHAEL A GORYCKI, Ph D
Approved by

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129762

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/16/02 8:00:00 AM
ATC Group #: 8840
Analysis Date: 9/17/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
19 S840 -17	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
20 S840 -18	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
21 S840 -19	2400.00	0.0450	0	CHRYSOTILE	1	2	0.0036	66.73	0.0107	
22 S840 -20	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
23 S840 -21	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
24 S840 -22	2400.00	0.0450	0	CHRYSOTILE	2	2	0.0036	88.97	0.0143	
25 S840 -23	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
26 S840 -24	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
27 S840 -25	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

ROMAN PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph.D
Approved by

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NYC-WTC_000129763

NYC 9/11 Public Portal Document

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ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/16/02 8:00:00 AM
ATC Group #: 8840
Analysis Date: 9/17/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
28 *8840 -26*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
29 *8840 -27*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
30 *8840 -28*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
31 *8840 -29*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
32 *8840 -30*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
33 *8840 -31*	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
34 *8840 -32*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
35 *8840 -33*	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
36 *8840 -34*	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129764

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/16/02 8:00:00 AM
ATC Group #: 8840
Analysis Date: 9/17/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
37 8840 -35	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
38 8840 -36	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
41 8840 -37	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
42 8840 -38	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
43 8840 -39	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
44 8840 -40	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
45 8840 -41	2400.00	0.0450	0	CHRYSOTILE	1	2	0.0036	66.73	0.0107	
46 8840 -42	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
47 8840 -43	2400.00	0.0450	0	CHRYSOTILE	2	1	0.0036	66.73	0.0107	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129765

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/16/02 8:00:00 AM
ATC Group #: 8840
Analysis Date: 9/17/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
48 8840 -44	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
49 8840 -45	2400.00	0.0450	0	CHRYSOTILE	4	0	0.0036	88.97	0.0143	
50 8840 -46	2400.00	0.0450	0	CHRYSOTILE	2	0	0.0036	44.48	0.0071	
51 8840 -47	2400.00	0.0450	0	CHRYSOTILE	3	2	0.0036	111.21	0.0178	
52 8840 -48	2400.00	0.0450	0	CHRYSOTILE	1	1	0.0036	44.48	0.0071	
54 8840 -49	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
55 8840 -50	2400.00	0.0450	0	CHRYSOTILE	2	0	0.0036	44.48	0.0071	
56 8840 -51	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
57 8840 -52	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129766

NYC-WTC_000129767

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☑ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

$840 51/57 7354-2410

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	22906-0002	Paul Pavlik	
	2a. Project Address: 125 Cedar ST.	3a. Task # 2	4a. Air Sampler: R. Acosta	HP-057

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-15-02	From 1ST FL To Penthouse	Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: Nuclepore Lot #: 98116788	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			✓	On hallway Penthouse	6:32	10:37	245	10.0	10.0	10.0	2450		
04			✓	On hallway 12th FL	6:33	10:38	245	10.0	10.0	10.0	2450		
05			✓	On hallway 11th FL	6:35	10:40	245	10.0	10.0	10.0	2450		
06			✓	On hallway 10th FL	6:36	10:41	245	10.0	10.0	10.0	2450		
07			✓	On hallway 9th FL	6:38	10:43	245	10.0	10.0	10.0	2450		
08			✓	On hallway 8th FL	6:46	10:45	245	10.0	10.0	10.0	2450		
09			✓	On hallway 7th FL	6:43	10:48	245	10.0	10.0	10.0	2450		
10			✓	On hallway 6th FL	6:45	10:50	245	10.0	10.0	10.0	2450		
11			✓	On hallway 5th FL	6:47	10:52	245	10.0	10.0	10.0	2450		
12			✓	On hallway 4th FL	6:49	10:54	245	10.0	10.0	10.0	2450		
13			✓	On hallway 3rd FL	6:50	10:55	245	10.0	10.0	10.0	2450		
14			✓	On hallway Decon	6:51	10:56	245	10.0	10.0	10.0	2450		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I R. Acosta	JR	9/16/02	[illegible]
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RKay	9/17/02	14:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhardt

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129768

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☑ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8340

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	22906-0002	Paul Pavlik	
	2a. Project Address: 125 Cedar ST.	3a. Task # 2	4a. Air Sampler: Ruben Acosta	MP-097

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-15-02	From 1st Fl. To Penhouse	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: Nuclepor Lot #: _____	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15			V	inside Waste room	6:58	10:58	245	10.0	10.0	10.0	2450		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I. R. Acosta	JP	9/16/02	8:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RPerez	9/17/02	14:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1.01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 4

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☑ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8840

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	22906.0002	Paul Pavlili	HP-097
	2a. Project Address: 125 Cedar ST	3a. Task #: 2	4a. Air Sampler: Ruben Acosta	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-15-02	From 1st Fl to Penhouse	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture Nuclepore Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
16			✓	On hallway Penhouse	10:37	1437	240	10.0	10	10	2400		
17			✓	On hallway 12th Fl	10:38	1438	240	10.0	10	10	2400		
18			✓	On hallway 11th Fl	10:40	1440	240	10.0	10	10	2400		
19			✓	On hallway 10th Fl	10:41	1441	240	10.0	10	10	2400		
20			✓	On hallway 9th Fl	10:43	1443	240	10.0	10	10	2400		
21			✓	On hallway 8th Fl	10:45	1445	240	10.0	10	10	2400		
22			✓	On hallway 7th Fl	10:48	1448	240	10.0	10	10	2400		
23			✓	On hallway 6th Fl	10:50	1450	240	10.0	10	10	2400		
24			✓	On hallway 5th Fl	10:52	1452	240	10.0	10	10	2400		
25			✓	On hallway 4th Fl	10:54	1454	240	10.0	10	10	2400		
26			✓	On hallway 3rd Fl	10:55	1455	240	10.0	10	10	2400		
27			✓	In front Clean Rm Decon	10:56	1456	240	10.0	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
R. Acosta	FD	9/16/02	8 am

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/17/02	14:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhartd

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129770

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8840

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	22706-0002	Paul Pavlik	
	2a. Project Address: 125 Cedar St	3a. Task # 2	4a. Air Sampler: Ruben Acosta	HP-097

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:	
9-15-02	From 1st Fl To Penhouse	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture Nuclepore Lot # _____	a. ☐ Background b. ☐ Pre-Abate	c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
28			✓	inside Waste room	10:58	14:58	240	10.0	10	10	2400		
29			✓	Hallway PENHOUSE	14:37	18:37	240	10	10	10	2400		
30			✓	" 12 Fl	14:38	18:39	240	10	10	10	2400		
31			✓	" 11 Fl	14:40	18:40	240	10	10	10	2400		
32			✓	" 10 Fl	14:41	18:41	240	10	10	10	2400		
33			✓	" 9 Fl	14:43	18:43	240	10	10	10	2400		
34			✓	" 8 Fl	14:45	18:45	240	10	10	10	2400		
35			✓	" 7 Fl	14:48	18:48	240	10	10	10	2400		
36			✓	" 6 Fl	14:50	18:50	240	10	10	10	2400		
37			✓	" 5 Fl	14:52	18:52	240	10	10	10	2400		
38			✓	" 4 Fl	14:54	18:54	240	10	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
R. Acosta	JD	9/16/02	8am
I			
II			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRoy	9/17/02	14:60
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhard

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NYC-WTC_000129771

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC

8340 — 152806

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	0002	C JOHNSON	C5601
	2a. Project Address: 125 CEDAR ST	3a. Task # 0002	4a. Air Sampler: "	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9/15/02		Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
39				Field Blank									
40				Field Blank									
41			/	HALLWAY 3 FL	1455	1855	240	10	10	10	2400		
42			/	HALLWAY CLEAN RM	1456	1856	240	10	10	10	2400		
43			/	HALLWAY WASTE	1458	1858	240	10	10	10	2400		
44			/	" PENTHOUSE	1837	2237	240	10	10	10	2400		
45			/	" 12 FL	1839	2239	240	10	10	10	2400		
46			/	" 11 FL	1840	2240	240	10	10	10	2400		
47			/	" 10 FL	1841	2241	240	10	10	10	2400		
48			/	" 9 FL	1843	2243	240	10	10	10	2400		
49			/	" 8 FL	1845	2245	240	10	10	10	2400		
50			/	" 7 FL	1848	2248	240	10	10	10	2400		
51			/	" 6 FL	1850	2250	240	10	10	10	2400		
52			/	" 5 FL	1852	2252	240	10	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	JG	9/16/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RKay	9/17/02	14:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J Burkhardt

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8840

1522806

Page 4 of 4

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	0002	C50hns -	C5001
	2a. Project Address: 128 CEDAR ST	3a. Task #: 0002	4a. Air Sampler: — " —	

Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
-1502		Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
53				Field Blank CLOSE BLANK									
54			✓	HALLWAY 4 FL	1854	2254	240	10	10	10	2400		
55			✓	HALLWAY 3 FL	1855	2255	240	10	10	10	2400		
56			✓	HALLWAY D/CO CLEAN RM	1856	2256	240	10	10	10	2400		
57			✓	HALLWAY D/ON WASTE	1858	2258	240	10	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]	[signature]	9/16/02	8am
I			
II			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/17/02	14:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: F. Burkhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 1C
New York, New Yor
www.atc-env
212.3[illegible]
Fax 212.3[illegible]

September 16, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8839:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: 1st Floor to Penthouse
Samples received: 09/15/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/15/02 7:00:00 AM
ATC Group #: 8839
Analysis Date: 9/16/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8839 -1	3050.00	0.0450	0	None Detected	0	0	0.0028	<22.24	<0.0028	
04 8839 -2	3050.00	0.0450	0	CHRYSOTILE	2	0	0.0028	44.48	0.0056	
05 8839 -3	3050.00	0.0450	0	None Detected	0	0	0.0028	<22.24	<0.0028	
06 8839 -4	3050.00	0.0450	0	CHRYSOTILE	2	0	0.0028	44.48	0.0056	
07 8839 -5	3050.00	0.0450	0	CHRYSOTILE	3	1	0.0028	88.97	0.0112	
08 8839 -6	3050.00	0.0450	0	CHRYSOTILE	1	1	0.0028	44.48	0.0056	
09 8839 -7	3050.00	0.0450	0	None Detected	0	0	0.0028	<22.24	<0.0028	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129774

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/15/02 7:00:00 AM
ATC Group #: 8839
Analysis Date: 9/16/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
10 8839 -8	3050.00	0.0450	0	CHRYSOTILE	3	1	0.0028	88.97	0.0112	
11 8839 -9	3050.00	0.0450	0	CHRYSOTILE	6	3	0.0028	200.18	0.0253	
12 8839 -10	3050.00	0.0450	0	None Detected	0	0	0.0028	<22.24	<0.0028	
13 8839 -11	3050.00	0.0450	0	CHRYSOTILE	0	1	0.0028	22.24	0.0028	
14 8839 -12	3050.00	0.0450	0	None Detected	0	0	0.0028	<22.24	<0.0028	
15 8839 -13	3050.00	0.0450	0	None Detected	0	0	0.0028	<22.24	<0.0028	
16 8839 -14	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
17 8839 -15	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
18 8839 -16	2400.00	0.0450	0	CHRYSOTILE	1	1	0.0036	44.48	0.0071	

Analyzed by: ROMAN PEYSAKHOV

Approved by: MICHAEL A. GORYCKI, Ph.D

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129775

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/15/02 7:00:00 AM
ATC Group #: 8839
Analysis Date: 9/16/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
19 8839 -17	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
20 8839 -18	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	
21 8839 -19	2400.00	0.0450	0	CHRYSOTILE	1	2	0.0036	66.73	0.0107	
22 8839 -20	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
23 8839 -21	2400.00			Not Analyzed						Overloaded with particulates
24 8839 -22	2400.00			Not Analyzed						Overloaded with particulates
25 8839 -23	2400.00			Not Analyzed						Overloaded with particulates
26 8839 -24	2400.00			Not Analyzed						Overloaded with particulates
27 8839 -25	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

ROMAN PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, PH.D
Approved by

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129776

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/15/02 7:00:00 AM
ATC Group #: 8839
Analysis Date: 9/16/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
28 8839 -26	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
29 8839 -27	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
30 8839 -28	2400.00	0.0450	0	CHRYSOTILE	1	1	0.0036	44.48	0.0071	
31 8839 -29	2400.00			Not Analyzed						Overloaded with particulates
32 8839 -30	2400.00			Not Analyzed						Overloaded with particulates
33 8839 -31	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
34 8839 -32	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
35 8839 -33	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
36 8839 -34	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	

ROMAN PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph.D
Approved by

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129777

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/15/02 7:00:00 AM
ATC Group #: 8839
Analysis Date: 9/16/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
37 8839 -35	2400.00	0.0450	0	CHRYSOTILE	0	1	0.0036	22.24	0.0036	
38 8839 -36	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
41 8839 -37	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
42 8839 -38	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
43 8839 -39	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
44 8839 -40	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
45 8839 -41	1800.00	0.0450	0	CHRYSOTILE	1	1	0.0048	44.48	0.0095	
46 8839 -42	1800.00	0.0450	0	CHRYSOTILE	2	1	0.0048	66.73	0.0143	
47 8839 -43	1800.00	0.0450	0	CHRYSOTILE	4	2	0.0048	133.45	0.0285	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129778

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/15/02 7:00:00 AM
ATC Group #: 8839
Analysis Date: 9/16/02

Project: DEP Cleaan-up Project = 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
48 8839 -44	1800.00	0.0450	0	CHRYSOTILE	2	1	0.0048	66.73	0.0143	
49 8839 -45	1800.00	0.0450	0	CHRYSOTILE	5	1	0.0048	133.45	0.0285	
50 8839 -46	1800.00			Not Analyzed						Overloaded with particulates
51 8839 -47	1800.00	0.0450	0	CHRYSOTILE	3	1	0.0048	88.97	0.0190	
52 8839 -48	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
54 8839 -49	1800.00	0.0450	0	CHRYSOTILE	1	0	0.0048	22.24	0.0048	
55 8839 -50	1800.00	0.0450	0	CHRYSOTILE	1	0	0.0048	22.24	0.0048	
56 8839 -51	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
57 8839 -52	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph.D.
Approved by

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Accredited for NVLAP #LM/TEM #101187-0, NY State ELAP #10873

NYC-WTC_000129779

NYC-WTC_000129780

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8839 45/57 2297-2353

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	22906-0002		
	2a. Project Address: 125 Cedar ST	3a. Task #: 2	4a. Air Sampler: Ruben Acosta	HP-097

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-14-02	From 1st Fl To Penhouse	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture Nuclepore Lot # 98116788	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			✓	On hallway Penhouse	6:30	11:35	305	10.0	10.0	10.0	3050		
04			✓	On hallway 12th Fl	6:31	11:36	305	10.0	10.0	10.0	3050		
05			✓	On hallway 11th Fl	6:32	11:37	305	10.0	10.0	10.0	3050		
06			✓	On hallway 10th Fl	6:34	11:39	305	10.0	10.0	10.0	3050		
07			✓	On hallway 9th Fl	6:36	11:41	305	10.0	10.0	10.0	3050		
08			✓	On hallway 8th Fl	6:39	1144	305	10.0	10.0	10.0	3050		
09			✓	On hallway 7th Fl	6:42	11:47	305	10.0	10.0	10.0	3050		
10			✓	On hallway 6th Fl	6:45	11:50	305	10.0	10.0	10.0	3050		
11			✓	On hallway 5th Fl	6:46	11:51	305	10.0	10.0	10.0	3050		
12			✓	On hallway 4th Fl	6:47	11:52	305	10.0	10.0	10.0	3050		
13			✓	On hallway 3rd Fl	6:49	11:54	305	10.0	10.0	10.0	3050		
14			✓	On hallway clean room	6:52	11:57	305	10.0	10.0	10.0	3050		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	R. Acosta	RRly	9/15/02	7:00
II				
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:		23. Date:	24. Time:
a. Analyzed By:	[signature]	9/16	15:00
b. QC By:			
c. Lab Batch #:			

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1.01)

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8839

Page 2

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☑ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	22906.0002		
	2a. Project Address: 125 Cedar St.	3a. Task #	4a. Air Sampler: Ruben Acosta	HP-097

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-14-02	From 1st Fl to Penhouse	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture Nuclepore Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17 Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15			✓	inside Waste room	6:54	11:59	305	10.0	10.0	10.0	3050		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I Ruben A.	R Ruy	9/13/02	7:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/16	15:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129782

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8839

15 22906

Page 1 of 4

TURNAROUND TIME: ☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard ☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	0002	C JOHNSON	CJ001
	2a. Project Address: 125 CEDAR	3a. Task #: 0002	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9-14-02		Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
16			/	HALLWAY PENHOUSE	1135	335	240	10	10	10	2400		
17			/	HALLWAY 12 FL	1136	336	240	10	10	10	2400		
18			/	HALLWAY 11 FL	1137	337	240	10	10	10	2400		
19			/	" 10 FL	1139	339	240	10	10	10	2400		
20			/	" 9 FL	1141	341	240	10	10	10	2400		
21			/	" 8 FL	1144	344	240	10	10	10	2400		
22			/	" 7 FL	1147	347	240	10	10	10	2400		
23			/	" 6 FL	1150	350	240	10	10	10	2400		
24			/	" 5 FL	1151	351	240	0	10	10	2400		
25			/	" 4 FL	1152	352	240	10	10	10	2400		
26			/	" 3 FL	1154	354	240	10	10	10	2400		
27			/	HALLWAY CLEAN RM.	1157	357	240	10	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	R Kelly	9/15/02	7:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	9/16	15:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #
- ☐ Nikon Labophot 238913
- ☐ Nikon Labophot 238917
- ☐ Nikon Labophot 239079

Analysis Methodology
- PCM - NIOSH 7400A
- TEM - AHERA

26. ATC Project Manager: F Burkhard

27. Result To: ____ Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_00012978

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8839

15 22906

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	3001	C JOHNSON	CJ601
	2a. Project Address: 125 CEDAR ST	3a. Task # 0662	4a. Air Sampler: — " —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-14-01		Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15 Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc F/CC
				Field Blank									
				Field Blank									
28				INSIDE WASTE	1159	359	240	10	10	10	2400		
29				HALLWAY PLYWOOD	335	735	240	10	10	10	2400		
30				" 12 FT	336	736	240	10	10	10	2400		
31				" 11 FT	337	737	240	10	10	10	2400		
32				" 10 FT	339	739	240	10	10	10	2400		
33				" 9 FT	341	741	240	10	10	10	2400		
34				" 8 FT	344	744	240	10	10	10	2400		
35				" 7 FT	347	747	240	10	10	10	2400		
36				" 6 FT	350	750	240	10	10	10	2400		
37				" 5 FT	351	751	240	10	10	10	2400		
38				" 4 FT	352	752	240	10	10	10	2400		
~~39~~				" ~~3 FT~~									

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		RRiley	9/15	7:00
II				
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/16	15:40
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J Buckhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1 01)

NYC-WTC_000129784

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8334

15 22906

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean up	0002	C Johnson	CJ001
	2a. Project Address: 125 Cedar St	3a. Task # 0002	4a. Air Sampler: —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9/4/02		Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: _____ Lot #: _____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
39				Field Blank									
40				Field Blank									
41			/	Hallway 3rd floor	354	754	240	4	4	4.0	2400		
42			/	" Clean Rm	357	757	240	4.0	4.0	4.0	2400		
43			/	" Waste	359	759	240	4.0	4.0	4.0	2400		
44			/	Hallway 8th floor	735	1035	180	4.0	4.0	4.0	1800		
45			/	" 12 Fl	736	1036	180	4.0	4.0	4.0	1800		
46			/	" 11 Fl	737	1037	180	4.0	4.0	4.0	1800		
47			/	" 10 Fl	739	1039	180	4.0	4.0	4.0	1800		
48			/	" 9 Fl	741	1041	180	4.0	4.0	4.0	1800		
49			/	" 8 Fl	744	1044	180	4.0	4.0	4.0	1800		
50			/	" 7 Fl	747	1047	180	4.0	4.0	4.0	1800		
51			/	" 6 Fl	750	1050	180	4.0	4.0	4.0	1800		
52			/	" 5 Fl	751	1051	180	4.0	4.0	4.0	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	[signature]	9/5/02	7:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/6	15:40
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
~~TEM - AHERA~~

26. ATC Project Manager: J Burkehardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NYC-WTC_000129785

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8539 — 15 22906

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	0002	CJOHNSON	CJ001
	2a. Project Address: 128 CEDAR ST	3a. Task # 0002	4a. Air Sampler: —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9-14-02		Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
53				Field Blank CLOSE BLANK									
54				HALLWAY 4 FL	752	1052	180	2.0	2.0	2.0	180		
55				" 3 FL	754	1054	180	2.0	2.0	2.0	180		
56				" CLEAN RM	757	1057	180	2.0	2.0	2.0	180		
57				" WASTE	759	1059	180	2.0	2.0	2.0	180		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	[signature]	[signature]	9/15/02	7:00
II				
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/16	1540
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J Burkhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1.01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th
New York, New York 10
www.atc-enviro.c
212.353.8
Fax 212.353.8

September 23, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8863:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/19/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/19/02 4:00:00 PM
ATC Group #: 8863
Analysis Date: 9/23/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8863 -1	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
05 8863 -2	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
06 8863 -3	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
07 8863 -4	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
08 8863 -5	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
09 8863 -6	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
10 8863 -7	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129787

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/19/02 4:00:00 PM
ATC Group #: 8863
Analysis Date: 9/23/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 *8863 -8*	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
12 *8863 -9*	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
13 *8863 -10*	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
14 *8863 -11*	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
15 *8863 -12*	1850.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
16 *8863 -13*	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	
17 *8863 -14*	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	
18 *8863 -15*	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	
19 *8863 -16*	1180.00	0.0674	0	None Detected	0	0	0.0048	<14.83	<0.0048	

MARK PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129788

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/19/02 4:00:00 PM
ATC Group #: 8863
Analysis Date: 9/23/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
20 8863 -17	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	
21 8863 -18	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	
22 8863 -19	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	
23 8863 -20	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	
24 8863 -21	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	
25 8863 -22	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	
26 8863 -23	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	
27 8863 -24	1140.00	0.0787	0	None Detected	0	0	0.0043	<12.71	<0.0043	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129789

NYC-WTC_000129790

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8863 24/27 2771-2797

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-229 06-00028		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task #: 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.19.2	Around building	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: MAI Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03				Field Blank									
04			V	In front of building	06:20	09:25	185	10	10	10	1850		
05			V	—"—	06:21	09:26	185	10	10	10	1850		
06			V	—"—	06:22	09:27	185	10	10	10	1850		
07			V	—"—	06:25	09:28	185	10	10	10	1850		
08			V	In back of building	06:30	09:35	185	10	10	10	1850		
09			V	—"—	06:31	09:36	185	10	10	10	1850		
10			V	—"—	06:32	09:37	185	10	10	10	1850		
11			V	—"—	06:33	09:38	185	10	10	10	1850		
12			V	—"—	06:34	09:39	185	10	10	10	1850		
13			V	Restaurant, Cleanroom of decon	06:38	09:43	185	10	10	10	1850		
14			V	Hallway —"—	06:39	09:44	185	10	10	10	1850		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		9.19.2	
II	JD	9/19/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/21	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s: _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129791

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8863

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22506-0002		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.19.2	Around building	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: _____ Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15			✓	2nd Floor Clean room of decon	06:41	09:46	185	10	10	10	1850		
16			✓	In front of building	09:25	14:10	285	4	4	4	1140		
17			✓	"	09:26	14:11	285	4	4	4	1140		
18			✓	"	09:27	14:12	285	4	4	4	1140		
19			✓	"	09:28	14:13	285	4	4	4	1140		
20			✓	In back of building	09:35	14:20	285	4	4	4	1140		
21			✓	"	09:36	14:21	285	4	4	4	1140		
22			✓	"	09:37	14:22	285	4	4	4	1140		
23			✓	"	09:38	14:23	285	4	4	4	1140		
24			✓	"	09:39	14:24	285	4	4	4	1140		
25			✓	Restaurant. Clean room of decon	09:43	14:28	285	4	4	4	1140		
26			✓	Hallway "	09:44	14:29	285	4	4	4	1140		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		9.19.2	
II	JE	9/19/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/20	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
F. Burkhardt	F. Burkhardt	
	Beeper/Phone #'s:	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NYC-WTC_00012792

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC. 8863

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean - up	15-22906-0002		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
9 19 2	Around building	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # 316	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
27			✓	2nd Floor Clean room of decon	09:46	14:31	285	4	4	4	1140		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		9 19 2	
II	JD	9/19/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By.	9/20	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1:01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 22, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8869:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/20/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/20/02 4:00:00 PM
ATC Group #: 8869
Analysis Date: 9/22/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8869 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8869 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8869 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8869 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8869 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8869 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8869 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129794

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/20/02 4:00:00 PM
ATC Group #: 8869
Analysis Date: 9/22/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8869 -8	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 8869 -9	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
13 8869 -10	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
14 8869 -11	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
15 8869 -12	1800.00	0.0450	0	CHRYSOTILE	1	0	0.0048	22.24	0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129795

NYC-WTC_000129796

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8869

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION 8869 12/15 2689-2703

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-2306-0002		SD-006
	2a. Project Address 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
9 20 02	Around building	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture MMF Lot # 316	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location 12a IWA	12b OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03				Field Blank									
04			V	In front of building	06:30	14:00	450	4	4	4	1800		
05			V	—"—	06:31	14:01	450	4	4	4	1800		
06			V	—"—	06:32	14:02	450	4	4	4	1800		
07			V	—"—	06:33	14:03	450	4	4	4	1800		
08			V	In back of building	06:40	14:10	450	4	4	4	1800		
09			V	—"—	06:41	14:11	450	4	4	4	1800		
10			V	—"—	06:42	14:12	450	4	4	4	1800		
11			V	—"—	06:43	14:13	450	4	4	4	1800		
12			V	—"—	06:44	14:14	450	4	4	4	1800		
13			V	Restaurant Clean room of	06:47	14:17	450	4	4	4	1800		
14			V	Hallway —"—	06:50	14:20	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		9 20 02	
II		9/20/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By:	9/20/02	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129797

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8869

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22506-0002		SD-006
	2a. Project Address: 125 Cedar St. NY	3a. Task #: 80002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.20.2		Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: _____ Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11 Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15			V	2nd Floor. Clean room of dec	06:52	1422	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		9.20.2	
II	FE	9/20/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRay	9/30/02	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s: _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 22, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8865:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/20/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/20/02 8:00:00 AM
ATC Group #: 8865
Analysis Date: 9/22/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
01 *8865 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
02 *8865 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
03 *8865 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 *8865 -4*	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
05 *8865 -5*	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129799

NYC-WTC_000129800

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8365 578 2681-2688

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c Rotameter Number:
DEP	DEP Clean up	92906-02		SD 003
	2a. Project Address: 125 Cedar St NY NY	3a. Task # 02	4a. Air Sampler: TMI Amstislavsky	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:	
9.19.02	Entire	Cassette/Filter Manufacture: X	Cassette/Filter Manufacture: MMT	a. ☐ Background	c. ☐ Abatement
		Lot # _____	Lot # 916	b. ☐ Pre-Abate	d. ☐ Post-Abate
				e. ☐ OSHA	f. ☐ Environmental
					g. ☐ Ambient
					h. ☒ Other Clean up

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11 Pump Number	12. Sample Location			13. Time (24 hrs clock)			14. Flow Rate (L/min.)			15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
		12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
B-1, B-2				Field Blank									
B-3				Field Blank Sealed Blank									
01			V	outside bldg South Side up on scafold	1500	2230	450	4	4	4	1800		
02			V	" " SE/E Corner	1505	2235	450	4	4	4	1800		
03			V	" " SW/W Corner	1508	2238	450	4	4	4	1800		
04			V	" " 10' off Wall N/E side	1511	2242	451	4	4	4	1804		
05			V	" " 10' off Wall NW side	1513	2244	451	4	4	4	1804		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		9/20/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By:	9/22/02	11:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sollami

27. Result To: Ben Sollami
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 22, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8864:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/20/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/20/02 8:00:00 AM
ATC Group #: 8864
Analysis Date: 9/22/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8864 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 8864 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8864 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8864 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8864 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129802

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8864 578 1522906 2673-2680

PROJECT INFORMATION

1. Client: DEP	2. Project Name: DEP CLEAN UP	3. Project #: 0002	4. Project Monitor: C Johnson	4c. Rotameter Number: CJ001
	2a. Project Address: 128 CEDAR St	3a. Task #: 0002	4a. Air Sampler: — " —	

5. Date: 9-19-02	6. Abatement Location: ENTIRE	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # _____	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture MMI Lot # 916	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10 Sample I.D. Number	11 Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03				D/Low 2 Fl Clean Rm	1502	2232	4.50	04	4	4	1800		
04				D/Low 1 Fl Waste	1503	2233	4.50	04	4	4	1800		
05				D/Low Store Clean Rm	1504	2234	4.50	04	4	4	1800		
06				Top of Scaffold East	1506	2236	4.50	04	4	4	1800		
07				Top of Scaffold West	1507	2237	4.50	04	4	4	1800		
08				Close Blank									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JD	9/20/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/22/02	9:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallini

27. Result To: B Sallini
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 21, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8862:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/19/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002

Received: 9/19/02 8:00:00 AM
ATC Group #: 8862
Analysis Date: 9/21/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8862 -1	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
04 8862 -2	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
05 8862 -3	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
06 8862 -4	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
07 8862 -5	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
08 8862 -6	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
10 8862 -7	1446.00	0.0562	0	None Detected	0	0	0.0047	<17.79	<0.0047	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129805

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/19/02 8:00:00 AM
ATC Group #: 8862
Analysis Date: 9/21/02

Project: DEP Cleaan-up Project #: 22906-0002

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
11 8862 -8	1446.00	0.0562	0	None Detected	0	0	0.0047	<17.79	<0.0047	
12 8862 -9	1446.00	0.0562	0	None Detected	0	0	0.0047	<17.79	<0.0047	
13 8862 -10	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129806

NYC-WTC_000129807

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8862 10/13 152806 2680-2692

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	0002	CJOHNSON	CJ001
	2a. Project Address: 125 CEDAR ST	3a. Task #: 0002	4a. Air Sampler: —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:	
9-19-02	ENTIRE	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: MMF Lot #: 916	a. ☐ Background b. ☐ Pre-Abate	c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location 12a IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			/	2 FL D/WN CLEAN KH	1700	1900	240	06	6	6	1710		
04			/	1 FL WASTE CLEAN KH	1701	1902	241	06	6	6	1446		
05			/	STORE D/WN CLEAN KH	1702	1903	241	06	6	6	1446		
06			/	TOP of SCAFFOLD EAST SIDE	1703	1904	240	06	6	6	1440		
07			/	TOP of SCAFFOLD WEST SIDE	1705	1905	240	06	6	6	1440		
08			/	2 FL D/WN CLEAN KH	1900	2300	240	06	6	6	1440		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I CJ	JD	9/19/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/21	9:20
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J BURKHARDT

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129808

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

8362 15 22906

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	0002	C JOHNSON	C5001
	2a. Project Address: 125 CEDAR ST	3a. Task # 0002	4a. Air Sampler: —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9-18-02		Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10 Sample I.D. Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15 Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
09				Field Blank CLOSE									
10			✓	1 FL WASTE O/CON	1902	2303	241	6	6	6	1446		
11			✓	SOUTH O/CON CLEAN KM	1903	2304	241	6	6	6	1446		
12			✓	TOP of Scaffold EAST	1904	2305	241	6	6	6	1446		
13			✓	TOP of Scaffold WEST.	1905	2305	240	6	6	6	1440		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JN	9/19/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/20	8:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
~~TEM - AHERA~~

26. ATC Project Manager: F Blanchard

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 21, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8861:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/19/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/19/02 8:00:00 AM
ATC Group #: 8861
Analysis Date: 9/21/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
01 8861 -1	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
02 8861 -2	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
03 8861 -3	1446.00	0.0562	0	None Detected	0	0	0.0047	<17.79	<0.0047	
04 8861 -4	1446.00	0.0562	0	None Detected	0	0	0.0047	<17.79	<0.0047	
05 8861 -5	1452.00	0.0562	0	None Detected	0	0	0.0047	<17.79	<0.0047	
06 8861 -6	1380.00	0.0674	0	None Detected	0	0	0.0041	<14.83	<0.0041	
07 8861 -7	1380.00	0.0674	0	None Detected	0	0	0.0041	<14.83	<0.0041	

MARK PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph.D
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129810

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/19/02 8:00:00 AM
ATC Group #: 8861
Analysis Date: 9/21/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
08 *8861 -8*	1380.00	0.0674	0	None Detected	0	0	0.0041	<14.83	<0.0041	
09 *8861 -9*	1374.00	0.0674	0	None Detected	0	0	0.0042	<14.83	<0.0042	
10 *8861 -10*	1368.00	0.0674	0	None Detected	0	0	0.0042	<14.83	<0.0042	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129811

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8-561 10/13 2647-2659

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	22906-02		
	2a. Project Address: 125 Cedar St NY NY	3a. Task #: 02	4a. Air Sampler: Jim Amstislavskiy	SD-003

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9.18.02	Entire	Cassette/Filter Manufacture: X Lot #:	Cassette/Filter Manufacture: MMT Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other Clean up

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1, B-2				Field Blank									
B-3				Field Blank Sealed Blank									
01			✓	outside bldg ~~South~~ North side (up scafold)	1500	1900	240	06	6	6	1440		
02			✓	" " 5' off scafold	1505	1905	240	06	6	6	1440		
03			✓	" 7' off scafold (N)	1507	1908	241	06	6	6	1446		
04			✓	" N/E corner	1510	1911	241	06	6	6	1446		
05			✓	" N/W corner	1512	1914	242	06	6	6	1452		
06			✓	" up scafold	1900	2250	230	6	6	6	1380		
07			✓	" 5' off scafold	1905	2255	230	6	6	6	1380		
08			✓	" 7' off scafold (N)	1908	2258	230	6	6	6	1380		
09			✓	" N/E corner	1911	2300	229	6	6	6	1374		
10			✓	" N/W corner	1914	2302	228	6	6	6	1368		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JE	9/19/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	9/21	7:40
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 25, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8883:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/23/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/23/02 8:00:00 AM
ATC Group #: 8883
Analysis Date: 9/25/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
4 8883 -1	1760.00	0.0450	0	None Detected	0	0	0.0049	<22.24	<0.0049	
5 8883 -2	1760.00	0.0450	0	CHRYSOTILE	0	2	0.0049	44.48	0.0097	
6 8883 -3	1760.00	0.0450	0	None Detected	0	0	0.0049	<22.24	<0.0049	
7 8883 -4	1760.00	0.0450	0	None Detected	0	0	0.0049	<22.24	<0.0049	
8 8883 -5	1764.00	0.0450	0	None Detected	0	0	0.0049	<22.24	<0.0049	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129814

NYC-WTC_000129815

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8883 S18 2933-2940

1. Client:	2. Project Name: DEP Cleanup.	3. Project #: 22906.02	4. Project Monitor:	4c. Rotameter Number:
DEP	2a. Project Address: 15 Cedar St NY NY	3a. Task #: 02	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9.22.02	Entire	Cassette/Filter Manufacture: X	Cassette/Filter Manufacture: [illegible]	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other (Outside)
		Lot #:	Lot #: 916	

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
1				Field Blank									
2				Field Blank									
3				sealed Blank	HA			4					
4			V	Clean room Decon	1448	2208	440	4	4	4	1760		
5			V	Near street Exit.	1450	2210	440	4	4	4	1760		
6			V	Decon in the restaurant 1FL.	1452	2212	440	4	4	4	1760		
7			V	Outside the bldg scaffold South side	1456	2216	440	4	4	4	1760		
8			V	Outside the bldg. scaffold South side	1458	2217	441	4	4	4	1764		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	JZ	9/23/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/25	9:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:
B. Sellemi	B. Sellemi
	Beeper/Phone #'s:

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th
New York, New York 100
www.atc-enviro.c
212.353.82
Fax 212.353.83

September 25, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8885:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/23/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/23/02 4:00:00 PM
ATC Group #: 8885
Analysis Date: 9/25/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8885 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8885 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8885 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8885 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8885 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8885 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8885 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129817

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/23/02 4:00:00 PM
ATC Group #: 8885
Analysis Date: 9/25/02

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8885 -8	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 8885 -9	1800.00	0.0450	0	CHRYSOTILE	1	0	0.0048	22.24	0.0048	
13 8885 -10	1800.00	0.0450	0	CHRYSOTILE	1	1	0.0048	44.48	0.0095	
14 8885 -11	1800.00	0.0450	0	CHRYSOTILE	1	0	0.0048	22.24	0.0048	
15 8885 -12	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129818

NYC-WTC_000129819

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8885 1H15 2980-2994

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22906-0002		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:		
9.23.2	Around building	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MAE Lot # 916	a. ☐ Background	c. ☐ Abatement	f. ☐ Environmental
				b. ☐ Pre-Abate	d. ☐ Post-Abate	g. ☐ Ambient
					e. ☐ OSHA	h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02 03				Field Blank									
04			V	In front of building	06:30	14:00	450	4	4	4	1800		
05			V	— " —	06:31	14:01	450	4	4	4	1800		
06			V	— " —	06:32	14:02	450	4	4	4	1800		
07			V	— " —	06:33	14:03	450	4	4	4	1800		
08			V	In back of building	06:40	14:10	450	4	4	4	1800		
09			V	" —	06:41	14:11	450	4	4	4	1800		
10			V	— " —	06:42	14:12	450	4	4	4	1800		
11			V	— " —	06:43	14:13	450	4	4	4	1800		
12			V	— " —	06:44	14:14	450	4	4	4	1800		
13			V	Restaurant Clean room of decon	06:50	14:20	450	4	4	4	1800		
14			V	Hallway — " —	06:52	14:22	450	4	4	4	1800		
15			V	2nd Floor — " —	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	E Lemanovich		9.23.2	
II		JH	9/23/02	16:00
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/25	10:50
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s _____

28. Comments:
1

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 25, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8887:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/24/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/24/02 8:00:00 AM
ATC Group #: 8887
Analysis Date: 9/25/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8887 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 8887 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8887 -3	1800.00	0.0450	0	CHRYSOTILE	1	0	0.0048	22.24	0.0048	
06 8887 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8887 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129821

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8887 5/8 2995-3002 15 22906

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean Up	0002	C Johnson	CJ001
	2a. Project Address: 128 Cedar St	3a. Task # 0002	4a. Air Sampler: — " —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9.23.02	ENTIRE	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MMI Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03				2 FL D/CON CLEAN RM	1430	2200	450	04	4	4	1800		
04				1 FL WASTE CLEAN RM	1431	2201	450	04	4	4	1800		
05				STORE D/CON CLEAN RM	1432	2202	450	04	4	4	1800		
06				TOP of Scaffold EAST SIDE	1434	2204	450	04	4	4	1800		
07				TOP of Scaffold WEST SIDE	1435	2205	450	04	4	4	1800		
08				CLOSE BLANK									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JB	9/24/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/25/02	10:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallini

27. Result To: B Sallini
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 25, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8888:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/24/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/24/02 8:00:00 AM
ATC Group #: 8888
Analysis Date: 9/25/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 8888 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
2 8888 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
3 8888 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
4 8888 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
5 8888 -5	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129824

NYC-WTC_000129825

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

5555 578 3023-3030

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
AET	DEP cleanup	02706-0003		
	2a. Project Address: 115 Cedar St #07	3a. Task #: 02	4a. Air Sampler: Jim Mastrosimone	SL-00[illegible]

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:	
9/23/02	Entire	Cassette/Filter Manufacture: X	Cassette/Filter Manufacture: A/AIT	a. ☐ Background	c. ☐ Abatement / f. ☐ Environmental
		Lot #:	Lot #: 916	b. ☐ Pre-Abate	d. ☐ Post-Abate / g. ☐ Ambient
					e. ☐ OSHA / h. ☒ Other Clearance

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1				Field Blank									
13:2				Field Blank Sealed Blank									
1			W	outside the bldg North side up the scaffold	1430	2300	450	4	4	4	1800		
2			W	S/W corner	1435	2305	450	4	4	4	1800		
3			W	S/E corner	1437	2307	450	4	4	4	1800		
4			W	N/W 80' off wall	1440	2310	450	4	4	4	1800		
5			W	10' off wall N/E	1442	2312	451	4	4	4	1804		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	JE	9/24/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By:	9/25/02	10:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
B. Sallemi	B. Sallemi	
	Beeper/Phone #'s	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 25, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8890:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/25/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002

Received: 9/25/02 8:00:00 AM
ATC Group #: 8890
Analysis Date: 9/25/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8890 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8890 -2	1800.00	0.0450	0	CHRYSOTILE	0	1	0.0048	22.24	0.0048	
06 8890 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8890 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8890 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8890 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8890 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129827

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/25/02 8:00:00 AM
ATC Group #: 8890
Analysis Date: 9/25/02

Project: DEP Clean-up Project #: 22906-0002

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
11 *8890 -8*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 *8890 -9*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
13 *8890 -10*	1800.00	0.0450	0	CHRYSOTILE	0	1	0.0048	22.24	0.0048	
14 *8890 -11*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
15 *8890 -12*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129828

NYC-WTC_000129829

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8890 12/15 3008-3022

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22906-0002		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
9.24.2	Around building	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: MMT Lot #: 916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			✓	In front of building	06:30	14:00	450	4	4	4	1800		
05			✓	— " —	06:31	14:01	450	4	4	4	1800		
06			✓	— " —	06:32	14:02	450	4	4	4	1800		
07			✓	— " —	06:33	14:03	450	4	4	4	1800		
08			✓	In back of building	06:40	14:10	450	4	4	4	1800		
09			✓	— " —	06:41	14:11	450	4	4	4	1800		
10			✓	— " —	06:42	14:12	450	4	4	4	1800		
11			✓	— " —	06:43	14:13	450	4	4	4	1800		
12			✓	— " —	06:44	14:14	450	4	4	4	1800		
13			✓	Restaurant Clean room of decon	06:50	14:20	450	4	4	4	1800		
14			✓	Hallway — " —	06:52	14:22	450	4	4	4	1800		
15			✓	2nd Floor — " —	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		9.24.2	
II	JR	9/25/02	Early
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/25	11:50
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
(TEM - AHERA)

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s: _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1.01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 25, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8891:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/25/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/25/02 8:00:00 AM
ATC Group #: 8891
Analysis Date: 9/25/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 8891 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
2 8891 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
3 8891 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
4 8891 -4	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
5 8891 -5	1808.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129831

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page ____ of ____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

8891 5/8 3031-3038

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean up	22906-02		SD-003
	2a. Project Address: 125 Cedar St NY NY	3a. Task # 02	4a. Air Sampler: [illegible]	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.24.02	Entire	Cassette/Filter Manufacture X Lot #	Cassette/Filter Manufacture NNI Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17 Fiber Conc. F/CC
B-1 B2				Field Blank									
B-3				Field Blank sealed Blank									
1			✓	outside bldg North side of the scafold	1430	2200	450	4	4	4	1800		
2			✓	" " SW corner	1435	2205	450	4	4	4	1800		
3			✓	" " S/E corner	1437	2207	450	4	4	4	1800		
4			✓	" " 10' off wall N/W	1439	2210	451	4	4	4	1804		
5			✓	" " 10' off wall N/E	1442	2214	452	4	4	4	1808		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	[signature]	1/25/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: [signature]	23. Date:	24. Time:
a. Analyzed By: [signature]	9/25	13:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
~~TEM - AHERA~~

26. ATC Project Manager: B. Sollemi

27. Result To: B Sollemi
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 25, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8892:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/25/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/25/02 8:00:00 AM
ATC Group #: 8892
Analysis Date: 9/25/02

Project:
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8892 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 8892 -2	1800.00	0.0450	0	CHRYSOTILE	0	1	0.0048	22.24	0.0048	
05 8892 -3	1800.00	0.0450	0	CHRYSOTILE	2	1	0.0048	66.73	0.0143	
06 8892 -4	1890.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
07 8892 -5	1890.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129834

NYC-WTC_000129835

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8892 578 3039-3046 15 22806

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean up	0002	C Johnson	CJ001
	2a. Project Address: 125 Cedar St	3a. Task #: 0002	4a. Air Sampler: — " —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9-24-02	ENTIRE	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MMF Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			✓	2 Fl D/Con Clean Rm	1430	2200	450	04	4	4	1800		
04			✓	1 Fl Waste Clean Rm	1431	2201	450	04	4	4	1800		
05			✓	Store Clean Rm D/Con	1432	2202	450	04	4	4	1800		
06			✓	Front of Building East	1733	2203	270	07	7	7	1890		
07			✓	Front of Building West Side	1734	2204	270	07	7	7	1890		
08				Close Blank									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JD	9/25/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	9/25	14:10
b. QC By:		
c. Lab Batch #.		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallimi

27. Result To: B Sallimi
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 24, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8882:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/23/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC-WTC_000129836

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/23/02 8:00:00 AM
ATC Group #: 8882
Analysis Date: 9/24/02

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
01 8882 -1	1760.00	0.0450	0	None Detected	0	0	0.0049	<22.24	<0.0049	
02 8882 -2	1760.00	0.0450	0	None Detected	0	0	0.0049	<22.24	<0.0049	
03 8882 -3	1760.00	0.0450	0	None Detected	0	0	0.0049	<22.24	<0.0049	
04 8882 -4	1760.00	0.0450	0	None Detected	0	0	0.0049	<22.24	<0.0049	
05 8882 -5	1760.00	0.0450	0	None Detected	0	0	0.0049	<22.24	<0.0049	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129837

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8882 518 2925-2932

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean up	22906-02		SD-003
	2a. Project Address: 125 Cedar st NY, NY	3a. Task # 02	4a. Air Sampler: Tim Anstislavskiy	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9.22.02	Enitre.	Cassette/Filter Manufacture X Lot #	Cassette/Filter Manufacture MMI Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1, B-2				Field Blank									
B-3				Field Blank Sealed Blank.									
01			✓	outside bldg Northside up the Scaffold	1430	2150	440	4	4	4	1760		
02			✓	" " S/W corner	1433	2158	440	4	4	4	1760		
03			✓	" " S/E corner	1436	2156	440	4	4	4	1760		
04			✓	" " 10' off wall N/W	1438	2158	440	4	4	4	1760		
05			✓	" " 10' off wall N/E	1440	2200	440	4	4	4	1760		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JD	9/23/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/23	12:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s _____

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129838

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 24, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8881:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/23/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/23/08 8:00:00 AM
ATC Group #: 8881
Analysis Date: 9/24/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
01 *8881 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
02 *8881 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
03 *8881 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 *8881 -4*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 *8881 -5*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

* Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129840

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 7

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8881 5/8 289-2898

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Cleanup 14	22906 02	14	SD 003
	2a. Project Address	3a. Task # 0002	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9-21 02	ENTIRE	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MMF Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other Cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b Avg	15 Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B01602				Field Blank									
B-03				Field Blank SEAL									
01				North Side up Scaffold	1430	2200	450	"	4	4	1800		
02				10' inside Corner	1435	2205	450	"	4	4	1800		
03				10' Corner	1437	2207	450	"	4	4	1800		
04				10' off wall W/E	1438	2208	450	"	4	4	1800		
05				10' of wall N/W	1439	2209	450	"	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	[signature]	9/23/02	8 am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/25/02	11:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Ben Sallini

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 24, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8880:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/23/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/23/02 8:00:00 AM
ATC Group #: 8880
Analysis Date: 9/24/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8880 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 8880 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8880 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8880 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8880 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129843

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8880 5/8 2883-2890 1522906

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean Up	0002	C Johnson	C5601
	2a. Project Address: 145 Cedar	3a. Task # 0002	4a. Air Sampler: — " —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9.21.02	ENTIRE	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MMI Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11 Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			✓	2 Ft D/Low Clean Rm	1431	2200	450	4	4	4	1800		
04			✓	1 Ft D/Low Waste	1432	2204	450	4	4	4	1800		
05			✓	Store D/Low Clean Rm	1433	2203	450	4	4	4	1800		
06			✓	Top of Scaffold East	1435	2205	450	4	4	4	1800		
07			✓	Top of Scaffold West	1436	2206	450	4	4	4	1800		
08				Close Blank									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JD	9/23/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/24/02	11:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: B Shahini

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 24, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8876:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/22/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/22/02 7:00:00 AM
ATC Group #: 8876
Analysis Date: 9/24/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 *8876 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 *8876 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 *8876 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 *8876 -4*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 *8876 -5*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 *8876 -6*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 *8876 -7*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129846

NYC-WTC_00012984

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8876 12/15 2907-2921

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean - up	15-22906.0002		SD-006
	2a. Project Address: 125 Cedar St NY,	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
9.21.2	Around building	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MAT Lot # 916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. (☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			✓	In front of building	06:30	14:00	450	4	4	4	1800		
05			✓	—"—	06:31	14:01	450	4	4	4	1800		
06			✓	—"—	06:32	14:02	450	4	4	4	1800		
07			✓	—"—	06:33	14:03	450	4	4	4	1800		
08			✓	In back of building	06:40	14:10	450	4	4	4	1800		
09			✓	—"—	06:41	14:11	450	4	4	4	1800		
10			✓	—"—	06:42	14:12	450	4	4	4	1800		
11			✓	—"—	06:43	14:13	450	4	4	4	1800		
12			✓	—"—	06:44	14:14	450	4	4	4	1800		
13			✓	Restaurant Clean room of dec	06:49	14:19	450	4	4	4	1800		
14			✓	Hallway —"—	06:51	14:21	450	4	4	4	1800		
15			✓	2nd Floor —"—	06:53	14:23	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		9.21.2	
II	TP	9/22/12	7am
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/22	11:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 24, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8872:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/21/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/21/02 3:00:00 AM
ATC Group #: 8872
Analysis Date: 9/24/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8872 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 8872 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8872 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8872 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8872 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129849

NYC-WTC_000129850

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8872 5/8 2899-2906 1522906

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number
DEP	DEP CLEAN UP	0002	C JOHNSON	CJ001
	2a. Project Address: 125 CEDAR ST	3a. Task # 0002	4a. Air Sampler: — " —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9-20-02	ENTIRE	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MMI Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			/	2 FL D/LOW PERSONAL	1520	2230	450	04	4	4	1800		
04			/	1 FL WASTE CLEAN RM	1501	2231	450	04	4	4	1800		
05			/	STORE D/LOW CLEAN RM	1502	2232	450	04	4	4	1800		
06			/	RAMP EAST SIDE	1504	2234	450	04	4	4	1800		
07			/	RAMP WEST SIDE	1505	2235	450	04	4	4	1800		
08			X	CLOSE BLANK									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	[signature]	9/21	3:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/24	10:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: B Sallini

27. Result To: B Sallini
Beeper/Phone #'s _____

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 24, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8879:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/23/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/23/02 8:00:00 AM
ATC Group #: 8879
Analysis Date: 9/24/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8879 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8879 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8879 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8879 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8879 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8879 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8879 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc. which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129852

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/23/02 8:00:00 AM
ATC Group #: 8879
Analysis Date: 9/24/02

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8879 -8	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 8879 -9	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
13 8879 -10	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
14 8879 -11	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
15 8879 -12	1800.00	0.0450	0	CHRYSOTILE	1	0	0.0048	22.24	0.0048	

Analyzed by: ROMAN PEYSAKHOV

Approved by: MICHAEL A. GORYCKI, Ph.D.

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129853

NYC-WTC_00012985

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8879 12/15 2806-2880

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22806.0002		SD-006
	2a. Project Address: 125 Cedar St. NY	3a. Task #: 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.22.02	Around building	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: _____ Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			✓	In front of building	06:30	14:00	450	4	4	4	1800		
05			✓	— " —	06:31	14:01	450	4	4	4	1800		
06			✓	— " —	06:32	14:02	450	4	4	4	1800		
07			✓	— " —	06:33	14:03	450	4	4	4	1800		
08			✓	In back of building	06:40	14:10	450	4	4	4	1800		
09			✓	— " —	06:41	14:11	450	4	4	4	1800		
10			✓	— " —	06:42	14:12	450	4	4	4	1800		
11			✓	— " —	06:43	14:13	450	4	4	4	1800		
12			✓	— " —	06:44	14:14	450	4	4	4	1800		
13			✓	Restaurant. Clean room of clean	06:50	14:20	450	4	4	4	1800		
14			✓	Hallway. — " —	06:52	14:22	450	4	4	4	1800		
15			✓	2nd Floor — " —	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		9.22.2	
II	JA	9/23/02	8am
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRay	9/24/02	10:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
(TEM) AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
F. Burkhardt	F. Burkhardt	
	Beeper/Phone #'s:	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10t
New York, New York 10
www.atc-enviro.c
212.353.8
Fax 212.353.8

September 23, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8871:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/21/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/21/02 3:00:00 AM
ATC Group #: 8871
Analysis Date: 9/23/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
01 8871 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
02 8871 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
03 8871 -3	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
04 8871 -4	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
05 8871 -5	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129856

NYC-WTC_000129857

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8871 5/8 2843-2850

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Cleanup	22906.02		SD.002
	2a. Project Address	3a. Task # 02	4a. Air Sampler: Tim Amstislavsky	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9.20.02	Entire	Cassette/Filter Manufacture X Lot #	Cassette/Filter Manufacture MMF Lot # 9/6	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other Cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1, B-2				Field Blank									
B-3				Field Blank Sealed Blank									
01			✓	outside blng North side up on seafold	1500	2230	450	4	4	4	1800		
02			✓	" " S/E corner	1505	2235	450	4	4	4	1800		
03			✓	" " S/W Corner	1507	2238	451	4	4	4	1804		
04			✓	" " 10' off wall N/E side	1510	2241	451	4	4	4	1804		
05			✓	" " 10' off wall N/W side	1513	2244	451	4	4	4	1804		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	[signature]	9/20	3:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	9/23	11:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sellemi

27. Result To: B Sellemi
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 20, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8853:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Various Sites
Samples received: 09/18/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/18/02 8:00:00 AM
ATC Group #: 8853
Analysis Date: 9/20/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8853 -1	2100.00	0.0450	0	None Detected	0	0	0.0041	<22.24	<0.0041	
04 8853 -2	2100.00	0.0450	0	None Detected	0	0	0.0041	<22.24	<0.0041	
05 8853 -3	2105.00	0.0450	0	None Detected	0	0	0.0041	<22.24	<0.0041	
06 8853 -4	2100.00	0.0450	0	CHRYSOTILE	1	0	0.0041	22.24	0.0041	
07 8853 -5	2105.00	0.0450	0	None Detected	0	0	0.0041	<22.24	<0.0041	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129859

NYC-WTC_000129860

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

8853 5/8 2592-2599 15 22 206

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean up	002	C Johnson	CS 001
	2a. Project Address: 125 CEDAR ST	3a. Task # 0002	4a. Air Sampler: — " —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9-17-02		Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			✓	Top of Ramp East	1530	2230	4/20	5.	5	5	2100		
04			✓	Top of Ramp center	1531	2231	4/20	5	5	5	2100		
05			✓	Top of Ramp center	1532	2233	4/21	5	5	5	2105		
06			✓	1 ft arch East	1535	2235	4/20	5	5	5	2100		
07			✓	2 ft arch. N/cen	1536	2237	4/21	5	5	5	2105		
08				Close Blank									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	ID	9/18/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By:	9/20/02	10:50
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 20, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8854:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Outside Building
Samples received: 09/18/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/18/02 8:00:00 AM
ATC Group #: 8854
Analysis Date: 9/20/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
01 *8854 -1*	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
02 *8854 -2*	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
03 *8854 -3*	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
04 *8854 -4*	2305.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
05 *8854 -5*	2305.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129862

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8854 5/5 2600-2604

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number
DEP	DEP Clean up.	22906-02		SD-005
	2a. Project Address: 125 Cedar st NY	3a. Task #: 02	4a. Air Sampler: Tim Anstislavsky	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9.17.02	Entire	Cassette/Filter Manufacture: X Lot #	Cassette/Filter Manufacture: MMI Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient ☒ Other Cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
01		✓	✓	outside the bldg south 5' off wall west corner	1500	2240	460	5	5	5	2300		
02		✓	✓	7' off wall North side	1503	2243	460	5	5	5	2300		
03			✓	5' off wall S/E corner	1506	2246	460	5	5	5	2300		
04			✓	~~10' off~~ 10' off wall N/W	1510	2251	461	5	5	5	2305		
05			✓	10' off wall south side	1514	2255	461	5	5	5	2305		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JD	9/18/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRhy	9/20/02	10:50
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 20, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8859:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/18/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/18/02 4:00:00 PM
ATC Group #: 8859
Analysis Date: 9/20/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8859 -1	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
05 8859 -2	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
06 8859 -3	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
07 8859 -4	2357.50	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
08 8859 -5	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
09 8859 -6	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
10 8859 -7	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	

ROMAN PEYSAKHOV
Analyzed by: RPey

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129865

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/18/02 4:00:00 PM
ATC Group #: 8859
Analysis Date: 9/20/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8859 -8	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
12 8859 -9	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
13 8859 -10	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
14 8859 -11	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
15 8859 -12	1680.00	0.0562	0	CHRYSOTILE	0	1	0.0041	17.79	0.0041	
16 8859 -13	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
17 8859 -14	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
18 8859 -15	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
19 8859 -16	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129866

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/18/02 4:00:00 PM
ATC Group #: 8859
Analysis Date: 9/20/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
20 8859 -17	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
21 8859 -18	2500.00	0.0450	0	None Detected	0	0	0.0034	<22.24	<0.0034	
22 8859 -19	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
23 8859 -20	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
24 8859 -21	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
25 8859 -22	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
26 8859 -23	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
27 8859 -24	2400.00	0.0450	0	CHRYSOTILE	1	0	0.0036	22.24	0.0036	

ROMAN PEYSAKHOV
Analyzed by: RPeys

MICHAEL A. GORYCKI, Ph.D.
Approved by: Michael A Gorycki

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129867

NYC-WTC_000129868

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

8859 24/27 2620-2646

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22506.0002		SD-006
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9 18 .2	Around building	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17 Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03				Field Blank									
04			✓	In front of building	06:20	10:10	230	10	10	10	2300		
05			✓	— " —	06:21	10:11	230	10	10	10	2300		
06			✓	— " —	06:22	10:12	230	10	10	10	2300		
07			✓	— " —	06:23	10:13	230	10	10.5	10.25	2357.5		
08			✓	In back of building	06:30	10:20	230	10	10	10	2300		
09			✓	— " —	06:31	10:21	230	10	10	10	2300		
10			✓	— " —	06:32	10:22	230	10	10	10	2300		
11			✓	— " —	06:33	10:23	230	10	10	10	2300		
12			✓	— " —	06:34	10:24	230	10	10	10	2300		
13			✓	Hallway Clean room of decon	06:39	10:29	230	10	10	10	2300		
14			✓	2nd Floor — " —	06:40	10:30	230	10	10	10	2300		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	E Lemanovich		9 18 2	
II		JE	9/18/02	16:00
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC - TEM	23. Date:	24. Time:
a. Analyzed By: RRuy	9/20/02	16:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NYC-WTC_000129869

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8857

PROJECT INFORMATION

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Ceean-up	15-22906-0002		SD-006
	2a. Project Address: 125 Cedar St. NY	3a. Task #: 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.18.2	Around building	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: _____ Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15			✓	Restaurant, Cleanroom of deco	08:45	11:33	168	10	10	10	1680		
16			✓	In front of building	10:10	14:10	240	10	10	10	2400		
17			✓	— " —	10:11	14:11	240	10	10	10	2405		
18			✓	— " —	10:12	14:12	240	10	10	10	2400		
19			✓	— " —	10:13	14:13	240	10	10	10	2400		
20			✓	In back of building	10:20	14:20	240	10	10	10	2400		
21			✓	— " —	10:21	14:21	240	10	10.5	10.25	2500		
22			✓	— " —	10:22	14:22	240	10	10	10	2400		
23			✓	— " —	10:23	14:23	240	10	10	10	2400		
24			✓	— " —	10:24	14:24	240	10	10	10	2400		
25			✓	Hallway Cleanroom of deco	10:29	14:29	240	10	10	10	2400		
26			✓	2nd Floor — " —	10:30	14:30	240	10	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		9.18.2	
II	JD	9/18/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: Kelly	9/20/02	16:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
F. Burkhardt	F. Burkhardt	
	Beeper/Phone #'s:	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129870

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

8859

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22906-0002		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.18.2	Around building	Cassette/Filter Manufacture:	Cassette/Filter Manufacture:	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Clean
		Lot #:	Lot #: 916	

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
27			V	Restaurant. Clean room of area	11:33	14:33	240	10	10	10	24 oz		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		9.18.2	
II	TD	9/18/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRuy	9/20/0	16:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
F. Burkhardt	F. Burkhardt	
	Beeper/Phone #'s:	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 19, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8845:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: 1st Floor to Penthouse
Samples received: 09/16/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC-WTC_000129872

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8345 2833 2503-2535

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☑ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

Client	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
OEP	OEP Clean-up	22706.0002	Paul Pavilus	
	2a. Project Address: 125 Cedar ST	3a. Task # 7.	4a. Air Sampler: Ruben Acosta	11P-097

Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-16-02	From 1ST FL To Penhouse	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: Nuclepore Lot #: 98116788	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank OPEN									
02				Field Blank OPEN									
03				Field Blank closed									
04			✓	On hallway Penthouse	6:25	10:00	215	10.0	10.0	10.0	2150		
05			✓	On hallway 12TH FL	6:28	10:03	215	10.0	10.0	10.0	2150		
06			✓	On hallway 11TH FL	6:30	10:05	215	10.0	10.0	10.0	2150		
07			✓	On hallway 10TH FL	6:31	10:06	215	10.0	10.0	10.0	2150		
08			✓	On hallway 9TH FL	6:33	10:08	215	10.0	10.0	10.0	2150		
09			✓	On hallway 8TH FL	6:35	10:10	215	10.0	10.0	10.0	2150		
10			✓	On hallway 7TH FL	6:36	10:11	215	10.0	10.0	10.0	2150		
11			✓	On hallway 6TH FL	6:38	10:13	215	10.0	10.0	10.0	2150		
12			✓	On hallway 5TH FL	6:40	10:15	215	10.0	10.0	10.0	2150		
13			✓	On hallway 4TH FL	6:42	10:17	215	10.0	10.0	10.0	2150		
14			✓	On hallway 3TH FL	6:44	10:19	215	10.0	10.0	10.0	2150		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	R. Acosta	JE	9/16/02	16:30
II				
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/16	11:15
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129873

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8x45

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☒ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

1. Client	2. Project Name	3. Project #	4. Project Monitor	4c. Rotameter Number
DEP	DEP Clean-up	229060002	Paul Pavlilis	
	2a. Project Address: 125 Cedar St.	3a. Task #: 2	4a. Air Sampler: Ruben Acosta	HP-071

5. Date	6. Abatement Location	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type
9-16-02	From 1st Fl to Penhouse	Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: Nuclepore Lot #: ____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15			✓	in front of Pers. Decon	6:46	10:21	215	10.0	10.0	10.0	2150		
16			✓	inside Waste Decon	6:48	10:23	215	10.0	10.0	10.0	2150		
17			✓	on hallway 2nd Fl	7:10	10:25	195	10.0	10.0	10.0	1950		
18			✓	on hallway Penhouse	10:00	2:20	260	10.0	10.0	10.0	2600		
19			✓	on hallway 12th Fl	10:03	2:23	260	10.0	10.0	10.0	2600		
20			✓	on hallway 11th Fl	10:05	2:25	260	10.0	10.0	10.0	2600		
21			✓	on hallway 10th Fl	10:06	2:26	260	10.0	10.0	10.0	2600		
22			✓	on hallway 9th Fl	10:08	2:28	260	10.0	10.0	10.0	2600		
23			✓	on hallway 8th Fl	10:10	2:30	260	10.0	10.0	10.0	2600		
24			✓	on hallway 7th Fl	10:11	2:31	260	10.0	10.0	10.0	2600		
25			✓	on hallway 6th Fl	10:13	2:33	260	10.0	10.0	10.0	2600		
26			✓	on hallway 5th Fl	10:15	2:35	260	10.0	10.0	10.0	2600		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I R. Acosta	FD	9/16/02	16:30
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	8/19	11:15
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhardt

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☑ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

8845

OJECT INFORMATION

lient: DEP	2. Project Name: DEP Clean-up	3. Project #: 22406-0002	4. Project Monitor: Paul Paulilas	4c. Rotameter Number: KP-097
	2a. Project Address: 125 Cedar St	3a. Task #: 2	4a. Air Sampler: Ruben Acosta	
Date: 16-02	6. Abatement Location: From 1st Fl to Penhouse	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture ___ Lot # ___	8. ☑ TEM (0.45 micron MCE) Cassette/Filter Manufacture Nuclepore Lot # ___	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

ILY AIR SAMPLE RECORD

Sample I.D Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
32				Field Blank									
33				Field Blank									
27			✓	on hallway 4th Fl	10:17	2:37	260	10.0	10.0	10.0	2600		
28			✓	on hallway 3rd Fl	10:19	2:39	260	10.0	10.0	10.0	2600		
29			✓	in front of Pers. Decon	10:21	2:41	260	10.0	10.0	10.0	2600		
30			✓	inside Waste Decon	10:23	2:43	260	10.0	10.0	10.0	2600		
31			✓	on hallway 2nd Fl	10:25	2:45	260	10.0	10.0	10.0	2600		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I R. Acosta	JD	9/16/02	16:30
II			
III			

26. ATC Project Manager:

27. Result To: ___

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: TEM	23. Date:	24. Time:
a. Analyzed By: [illegible]	9/19	11:15
b. QC By:		
c. Lab Batch #:		

28. Comments:

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/16/02 4:30:00 PM
ATC Group #: 8845
Analysis Date: 9/19/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8845 -1	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	
05 8845 -2	2150.00	0.0450	0	CHRYSOTILE	1	0	0.0040	22.24	0.0040	
06 8845 -3	2150.00	0.0450	0	CHRYSOTILE	1	0	0.0040	22.24	0.0040	
07 8845 -4	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	
08 8845 -5	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	
09 8845 -6	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	
10 8845 -7	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	

MARK PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph.D
Approved by

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129875

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/16/02 4:30:00 PM
ATC Group #: 8845
Analysis Date: 9/19/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8845 -8	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	
12 8845 -9	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	
13 8845 -10	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	
14 8845 -11	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	
15 8845 -12	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	
16 8845 -13	2150.00	0.0450	0	None Detected	0	0	0.0040	<22.24	<0.0040	
17 8845 -14	1950.00	0.0450	0	None Detected	0	0	0.0044	<22.24	<0.0044	
18 8845 -15	2600.00	0.0450	0	CHRYSOTILE	3	0	0.0033	66.73	0.0099	
19 8845 -16	2600.00	0.0450	0	None Detected	0	0	0.0033	<22.24	<0.0033	

MARK PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph.D
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129876

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/16/02 4:30:00 PM
ATC Group #: 8845
Analysis Date: 9/19/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
20 8845 -17	2600.00	0.0450	0	None Detected	0	0	0.0033	<22.24	<0.0033	
21 8845 -18	2600.00	0.0450	0	CHRYSOTILE	0	1	0.0033	22.24	0.0033	
22 8845 -19	2600.00	0.0450	0	CHRYSOTILE	0	1	0.0033	22.24	0.0033	
23 8845 -20	2600.00	0.0450	0	None Detected	0	0	0.0033	<22.24	<0.0033	
24 8845 -21	2600.00	0.0450	0	None Detected	0	0	0.0033	<22.24	<0.0033	
25 8845 -22	2600.00	0.0450	0	CHRYSOTILE	1	1	0.0033	44.48	0.0066	
26 8845 -23	2600.00	0.0450	0	None Detected	0	0	0.0033	<22.24	<0.0033	
27 8845 -24	2600.00	0.0450	0	CHRYSOTILE	1	0	0.0033	22.24	0.0033	
28 8845 -25	2600.00	0.0450	0	CHRYSOTILE	0	1	0.0033	22.24	0.0033	

MARK PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph.D
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129877

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 9/16/02 4:30:00 PM
ATC Group #: 8845
Analysis Date: 9/19/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
29 *8845 -26*	2600.00	0.0450	0	None Detected	0	0	0.0033	<22.24	<0.0033	
30 *8845 -27*	2600.00	0.0450	0	None Detected	0	0	0.0033	<22.24	<0.0033	
31 *8845 -28*	2600.00	0.0450	0	None Detected	0	0	0.0033	<22.24	<0.0033	

MARK PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph D
Approved by

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129878

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 19, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8846:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Front of Ramp
Samples received: 09/17/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 8/17/02 8:00:00 AM
ATC Group #: 8846
Analysis Date: 9/19/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8846 -1	2410.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
04 8846 -2	2410.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
05 8846 -3	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
06 8846 -4	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
07 8846 -5	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
08 8846 -6	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
10 8846 -7	2410.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129880

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 8/17/02 8:00:00 AM
ATC Group #: 8846
Analysis Date: 9/19/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
11 *8846 -8*	2410.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
12 *8846 -9*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
13 *8846 -10*	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

ROMAN PEYSAKHOV
Analyzed by: RR

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129881

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8846 10/13 2536-2548 1522906

Page 1 of 2

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client: DEP	2. Project Name: DEP CLEAN UP	3. Project #: 0002	4. Project Monitor: C JOHNSON	4c. Rotameter Number: CJ061
	2a. Project Address: 125 CEDAR ST	3a. Task #: 0002	4a. Air Sampler: — " —	
5. Date: 9-16-02	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # _____	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture NUC. Lot # 98116788	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			/	Front of Building Pump on Ramp.	1500	1901	241	10	10	10	2410		
04			/	Front on Ramp. ~~South~~ Side	1501	1902	241	10	10	10	2410		
05			/	Front of Ramp top of ENT	1503	1903	240	10	10	10	2400		
06			/	Front on Ramp Far South	1505	1905	240	10	10	10	2400		
07			/	D/Con Clean Rm.	1507	1907	240	10	10	10	2400		
08			/	Front of Building Pump on Ramp.	1901	2301	240	10	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]	[signature]	9/17/02	Soon
I			
II			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/19/02	11:55
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F Burkhardt

27. Result To: F Burkhardt.
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129882

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name / 2a. Project Address	3. Project # / 3a. Task #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
DEP	DEP CLEANUP / 125 CEDAR ST	3002 / 3002	C. SOLIMANDO	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
1-Mar-02		Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15 Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			/	FRONT OF BUILDING ACROSS FROM	1500	1901	241	10	10	10	2410		
04			/	FRONT ON RAMP TOWARD SOUTH	1501	1904	241	10	10	10	2410		
05			/	FRONT ON RAMP NW OF CNT	1503	1903	240	10	10	10	2400		
06			/	FRONT ON RAMP 7TH SOUTH	1505	1905	240	10	10	10	2400		
07			/	17/CON CLOSE RAIL	1507	1907	240	10	10	10	2400		
08			/	FRONT OF BLDG FACING ON RAMP	1901	2301	240	10	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J. BURCHMAT

27. Result To: J. BURCHMAT
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document
NYC-WTC_000129883

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8846 152906

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	6002	C JOHNSON	CJ001
	2a. Project Address: 125 CEDAR	3a. Task # 0002	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
7-16-02		Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15 Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
09				Field Blank Field Blank CLOSE BLANK									
10			✓	FRONT ON RAMP SOUTH SIDE	1902	2303	241	10	10	10	2410		
11			✓	FRONT ON RAMP TOP OF EXIT.	1903	2304	241	10	10	10	2410		
12			✓	FRONT OF RAMP FAR SOUTH	1905	2305	240	10	10	10	2400		
13			✓	D/ TOWN PERSONAL CLEAN RM	1907	2307	240	10	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I CJ	FE	7/17/02	8:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: R RUIZ	9/19/02	11:55
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J BURKE THROT

27. Result To: J BURKE THROT
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129884

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 19, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8847:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Outside of Building
Samples received: 09/17/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/17/02 8:00:00 AM
ATC Group #: 8847
Analysis Date: 9/19/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
1 8847 -1	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
2 8847 -2	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
3 8847 -3	2390.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
4 8847 -4	2390.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
5 8847 -5	2380.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
6 8847 -6	2800.00	0.0450	0	None Detected	0	0	0.0031	<22.24	<0.0031	
7 8847 -7	2800.00	0.0450	0	None Detected	0	0	0.0031	<22.24	<0.0031	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129886

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/17/02 8:00:00 AM
ATC Group #: 8847
Analysis Date: 9/19/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
8 8847 -8	2200.00	0.0450	0	None Detected	0	0	0.0039	<22.24	<0.0039	
9 8847 -9	2210.00	0.0450	0	None Detected	0	0	0.0039	<22.24	<0.0039	
10 8847 -10	2220.00	0.0450	0	None Detected	0	0	0.0039	<22.24	<0.0039	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129887

NYC-WTC_000129888

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8.547 10/13 2554-2566

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP clean-up	22906-02		SD-003
	2a. Project Address: 125 Cedar st NY NY	3a. Task #: 02	4a. Air Sampler: Tim Amstislavsky	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.16.02	Entire	Cassette/Filter Manufacture: X Lot #:	Cassette/Filter Manufacture: MMI Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other Cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1, B2				Field Blank									
B-3				Field Blank Sealed Blank									
1			✓	outside b/ng South side (East corner)	1500	1900	240	10	10	10	2400		
2			✓	/ — / West corner	1503	1903	240	10	10	10	2400		
3			✓	/ — / South corner	1507	1906	239	10	10	10	2390		
4			✓	/ — / North corner	1510	1909	239	10	10	10	2390		
5			✓	/ — / S'off wall	1514	1912	238	10	10	10	2380		
6			✓	/ — / East corner	1900	2340	220	10	10	10	2200		
7			✓	/ — / W. corner	1903	2343	220	10	10	10	2200		
8			✓	/ — / S. corner	1906	2346	220	10	10	10	2200		
9			✓	/ — / N. Corner	1909	2350	221	10	10	10	2210		
10			✓	/ — / S'off wall	1912	2354	222	10	10	10	2220		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I. [signature]	[signature]	9/17/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/19	12:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 19, 2002

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

Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8852:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/17/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/17/02 4:00:00 PM
ATC Group #: 8852
Analysis Date: 9/19/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8852 -1	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
05 8852 -2	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
06 8852 -3	2357.50	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
07 8852 -4	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
08 8852 -5	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
09 8852 -6	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
10 8852 -7	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129890

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/17/02 4:00:00 PM
ATC Group #: 8852
Analysis Date: 9/19/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8852 -8	2242.50	0.0450	0	None Detected	0	0	0.0038	<22.24	<0.0038	
12 8852 -9	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
13 8852 -10	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
14 8852 -11	2300.00	0.0450	0	None Detected	0	0	0.0037	<22.24	<0.0037	
15 8852 -12	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
16 8852 -13	2400.00	0.0450	0	CHRYSOTILE	1	1	0.0036	44.48	0.0071	
17 8852 -14	2500.00	0.0450	0	None Detected	0	0	0.0034	<22.24	<0.0034	
18 8852 -15	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
19 8852 -16	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129891

NYC 9/11 Public Portal Document

Attn: Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/17/02 4:00:00 PM
ATC Group #: 8852
Analysis Date: 9/19/02

Project: DEP Cleaan-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
20 8852 -17	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
21 8852 -18	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
22 8852 -19	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
23 8852 -20	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
24 8852 -21	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	
25 8852 -22	2400.00	0.0450	0	None Detected	0	0	0.0036	<22.24	<0.0036	

ROMAN PEYSAKHOV
Analyzed by: RRM

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129892

NYC-WTC_000129893

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8852 2725 2567-2591

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP clean-up	15-22906-0002		SD-006
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
09.17.02	Around building	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # 916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03				Field Blank									
04			V	In front of building	6:20	10:10	230	10	10	10	2300		
05			V	— " —	6:21	10:11	230	10	10	10	2300		
06			V	— " —	6:22	10:12	230	10	10.5	10.25	2357.5		
07			V	— " —	6:23	10:13	230	10	10	10	2300		
08			V	In back of building	6:30	10:20	230	10	10	10	2300		
09			V	— " —	6:31	10:21	230	10	10	10	2300		
10			V	— " —	6:32	10:22	230	10	10	10	2300		
11			V	— " —	6:33	10:23	230	10	9.5	9.75	2242.5		
12			V	— " —	6:34	10:24	230	10	10	10	2300		
13			V	Clean room of decon	6:39	10:29	230	10	10	10	2300		
14		V		Room # 2 North	6:40	10:30	230	10	10	10	2300		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		9.17.2	
II	TJ	9/17/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-JFK	23. Date:	24. Time:
a. Analyzed By:	9/19/02	15:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000129894

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

$952

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22506-0002		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
09 17 02	Around building	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15			V	In front of building	10:10	14:10	240	10	10	10	2400		
16			V	— " —	10:11	14:11	240	10	10	10	2400		
17			V	— " —	10:12	14:12	240	10	10.5	10.25	2500		
18			V	— " —	10:13	14:13	240	10	10	10	2400		
19			V	In back of building	10:20	14:20	240	10	10	10	2400		
20			V	— " —	10:21	14:21	240	10	10	10	2400		
21			V	— " —	10:22	14:22	240	10	10	10	2400		
22			V	— " —	10:23	14:23	240	10	10	10	2400		
23			V	— " —	10:24	14:24	240	10	10	10	2400		
24			V	Clean room of decon	10:29	14:29	240	10	10	10	2400		
25		V		Room # 2 North	10:30	14:30	240	10	10	10	2400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		9.17.2	
II	TX	9/17/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By:	9/19/02	15:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 26, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8894:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/25/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/25/02 4:00:00 PM
ATC Group #: 8894
Analysis Date: 9/26/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ ≤	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8894 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8894 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8894 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8894 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8894 -5	1800.00	0.0450	0	CHRYSOTILE	1	0	0.0048	22.24	0.0048	
09 8894 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8894 -7	1800.00	0.0450	0	CHRYSOTILE	1	0	0.0048	22.24	0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129896

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/25/02 4:00:00 PM
ATC Group #: 8894
Analysis Date: 9/26/02

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8894 -8	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 8894 -9	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
13 8894 -10	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
14 8894 -11	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
15 8894 -12	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129897

NYC-WTC_000129898

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

5494 12/15 3055-3069

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP clean-up	15-22906.000 2		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:		
9.25.2	Around building	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: MMI Lot #: 916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA	f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location			13. Time (24 hrs clock)			14. Flow Rate (L/min.)			15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
		12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
01				Field Blank									
02, 03				Field Blank									
04			V	In front of building	06:30	14:00	450	4	4	4	1800		
05			V	—"—	06:31	14:01	450	4	4	4	1800		
06			V	—"—	06:32	14:02	450	4	4	4	1800		
07			V	—"—	06:33	14:03	450	4	4	4	1800		
08			V	In back of building	06:40	14:10	450	4	4	4	1800		
09			V	—"—	06:41	14:11	450	4	4	4	1800		
10			V	—"—	06:42	14:12	450	4	4	4	1800		
11			V	—"—	06:43	14:13	450	4	4	4	1800		
12			V	—"—	06:44	14:14	450	4	4	4	1800		
13			V	Restaurant Clean room of decon	06:50	14:20	450	4	4	4	1800		
14			V	Hallway. —"—	06:52	14:22	450	4	4	4	1800		
15			V	2nd Floor —"—	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	E. Lemanovich		9.25.2	
II		JD	9/25/02	16:00
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/26	11:20
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
~~TEM - AHERA~~

26. ATC Project Manager:	27. Result To:	28. Comments:
F. Burkhardt	F. Burkhardt	
	Beeper/Phone #'s:	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 26, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8895:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/26/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/26/02 8:00:00 AM
ATC Group #: 8895
Analysis Date: 9/26/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8895 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 8895 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8895 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8895 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8895 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129900

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8895 5/8 3070-3077 1522906

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN CUP	8002	C JOHNSON	C5001
	2a. Project Address: 125 CEDAR ST	3a. Task # 8002	4a. Air Sampler: — " —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9/25/02	ENTIRE	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MMI Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17 Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			/	2 FL D/CON CLEAN RM	1430	2200	450	04	4	4	1800		
04			/	1 FL WASTE CLEAN RM	1431	2201	450	04	4	4	1800		
05			/	STORE D/CON CLEAN RM	1432	2202	450	04	4	4	1800		
06			/	IN FRONT P BUILDING EAST	1434	2204	450	04	4	4	1800		
07			/	IN FRONT P BUILDING WEST	1435	2205	450	04	4	4	1800		
08				CLOSE BLANK									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JN	9/26/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	9/26	12:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallini

27. Result To: B Sallini
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 26, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8896:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/26/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/26/02 8:00:00 AM
ATC Group #: 8896
Analysis Date: 9/26/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 8896 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
2 8896 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
3 8896 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
4 8896 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
5 8896 -5	1804.00	0.0450	0	CHRYSOTILE	1	0	0.0047	22.24	0.0047	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129903

ATC ASSOCIATES INC

AND CHAIN OF CUSTODY FORM

8896 518 3078-3085

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP clean up	22906 02		50-003
	2a. Project Address: 125 Cedar St NY NY	3a. Task # 02	4a. Air Sampler: Vinnie Mascolo/Mike Hitchcock	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture: X Lot #:	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture: MF ATI Lot #: 916	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other elevator
9/25/02	Entire			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17 Fiber Conc. F/CC
B-1, B-2				Field Blank									
B-3				Field Blank Sealed Blank									
1			V	outside bldg, northside up the segfold	1430	1920	450	4	4	4	1800		
2			V	" " SW corner	1435	2005	450	4	4	4	1800		
3			V	" " SE corner	1437	2007	450	4	4	4	1800		
4			V	" " 10' off wall NW	1440	2010	450	4	4	4	1800		
5			V	" " 10' off wall NE	1443	2014	451	4	4	4	1804		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		JD	9/26/02	8am
II				
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/26	13:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
(TEM - AHERA)

26. ATC Project Manager:	27. Result To:	28. Comments:
B Sullivan	R Sullivan, Beeper/Phone #'s	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129904

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th F
New York, New York 1001(
www.atc-enviro.com
212.353.828(
Fax 212.353.830(

September 27, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8898:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/26/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC

Page 1 of 1

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

8898 10/13 3088-3100

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor	4c. Rotameter Number:
DEP	DEP Clean-up	15-22306-00002		SD-006
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.26.2	Around Building	Cassette/Filter Manufacture:	Cassette/Filter Manufacture: MMI	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning
		Lot #:	Lot #: 316	

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			V	In front of building	06:30	14:00	450	4	4	4	1800		
05			V	— " —	06:31	14:01	450	4	4	4	1800		
06			V	In back of building	06:40	14:10	450	4	4	4	1800		
07			V	— " —	06:41	14:11	450	4	4	4	1800		
08			V	— " —	06:42	14:12	450	4	4	4	1800		
09			V	— " —	06:43	14:13	450	4	4	4	1800		
10			V	— " —	06:44	14:14	450	4	4	4	1800		
11			V	Restaurant Clean room of decon	06:50	14:20	450	4	4	4	1800		
12			V	2nd Floor — " —	06:54	14:24	450	4	4	4	1800		
13			V	Hallway — " —	08:40	14:30	350	4	4	4	1400		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		9.26.2	
II	FN	9/26/04	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/27	10:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophbt 239079

Analysis Methodology
PCM - NIOSH 7400A
(TEM - AHERA)

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s:

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129906

NYC-WTC_0001299O7

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/26/02 4:00:00 PM
ATC Group #: 8898
Analysis Date: 9/27/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8898 -1	1800.00	0.0450	0	CHRYSOTILE	0	1	0.0048	22.24	0.0048	
05 8898 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8898 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8898 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8898 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8898 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8898 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/26/02 4:00:00 PM
ATC Group #: 8898
Analysis Date: 9/27/02

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 *8898 -8*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 *8898 -9*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
13 *8898 -10*	1400.00	0.0562	0	None Detected	0	0	0.0049	<17.79	<0.0049	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129908

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 27, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8899:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/27/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/27/02 8:00:00 AM
ATC Group #: 8899
Analysis Date: 9/27/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 8899 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
2 8899 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
3 8899 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
4 8899 -4	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
5 8899 -5	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129910

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8899 5/8 3101-3108

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean up	22906-02		
	2a. Project Address: 125 Cedar St NY NY	3a. Task # 02	4a. Air Sampler: Tim Austis Carsky	SD-003

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9-26-02	Entire	Cassette/Filter Manufacture X Lot #	Cassette/Filter Manufacture MMI Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other [illegible]

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B1, B2				Field Blank									
B-3				Field Blank Sealed Blank									
1			✓	outside bldg, North side up the scafold	1430	2200	450	4	4	4	1800		
2			✓	" " S/W corner	1435	2205	450	4	4	4	1800		
3			✓	" " S/E corner	1437	2207	450	4	4	4	1800		
4			✓	" " 10' OFF wall N/W	1439	2210	451	4	4	4	1804		
5			✓	" " 10' OFF wall N/E	1442	2213	451	4	4	4	1804		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	TD	9/27/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	9/27	11:05
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 27, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8900:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/27/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/27/02 8:00:00 AM
ATC Group #: 8900
Analysis Date: 9/27/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 *8900 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 *8900 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 *8900 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 *8900 -4*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 *8900 -5*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129913

NYC-WTC_00012991

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8700 578 3109-3116 1522906

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
WTC	WTC CLEAN UP	0002	C JOHNSON	CJ001
	2a. Project Address: 125 CEDAR ST	3a. Task # 0002	4a. Air Sampler: — a —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:	
9-26-02	CUTLINE.	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: MMI Lot #: 916	a. ☐ Background b. ☐ Pre-Abate	c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17 Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			✓	2 FT D/CON CLEAN KEY	1430	2200	430	04	4	4	1700		
04			✓	1 FT WASTE CLEAN KEY	1431	2201	430	04	4	4	1700		
05			✓	BSMT STOKE D/CON CLEAN KEY	1432	2202	430	04	4	4	1800		
06			✓	FRONT OF BUILDING EAST SIDE	1434	2204	430	04	4	4	1700		
07			✓	FRONT OF BUILDING WEST SIDE	1435	2205	430	04	4	4	1800		
08				CLOSE BLANK									

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		JR	9/27/02	8am
II				
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/27	11:40
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Stallini

27. Result To: B Stallini
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY 1 (1.01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 29, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8913:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/28/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/28/02 4:00:00 PM
ATC Group #: 8913
Analysis Date: 9/29/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Ash	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8913 -1	1200.00	0.0674	0	None Detected	0	0	0.0048	<14.83	<0.0048	
05 8913 -2	1200.00	0.0674	0	None Detected	0	0	0.0048	<14.83	<0.0048	
06 8913 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8913 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8913 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8913 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8913 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129916

NYC-WTC_00012991

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8913 10/13 3246-3258

TURNAROUND TIME

[ ] 2 hrs [ ] 6 hrs [ ] 48 hrs [ ] Standard
[ ] 4 hrs [ ] 24 hrs [ ] 72 hrs [ ] Other ____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number
DEP	DEP Clean-up	15-22906-0002		SD-006
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. [ ] PCM (0.8 micron MCE)	8. [✓] TEM (0.45 micron MCE)	9. Type:
9.28.2	Around building	Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: MMF Lot #: 916	a. [ ] Background b. [ ] Pre-Abate c. [ ] Abatement d. [ ] Post-Abate e. [ ] OSHA f. [ ] Environmental g. [ ] Ambient h. [✓] Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11 Pump Number	12. Sample Location 12a IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15 Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02. 03				Field Blank									
04			✓	In front of building	06:30	11:30	300	4	4	4	1200		
05			✓	"	06:31	11:31	300	4	4	4	1200		
06			✓	In back of building	06:40	14:10	450	4	4	4	1800		
07			✓	"	06:41	14:11	450	4	4	4	1800		
08			✓	"	06:42	14:12	450	4	4	4	1800		
09			✓	"	06:43	14:13	450	4	4	4	1800		
10			✓	"	06:44	14:14	450	4	4	4	1800		
11			✓	Restaurant Cleanroom of decon	06:50	14:20	450	4	4	4	1800		
12			✓	Hallway "	06:52	14:22	450	4	4	4	1800		
13			✓	2nd Floor "	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		9.28.2	16:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: R Riley	9/29/02	13:50
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
[ ] Nikon Labophot 238913
[ ] Nikon Labophot 238917
[ ] Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Salbemi

27. Result To: B. Salbemi
Beeper/Phone #'s: ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/28/02 4:00:00 PM
ATC Group #: 8913
Analysis Date: 9.29.02

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8913 -8	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 8913 -9	1800.00	0.0450	0	CHRYSOTILE	0	1	0.0048	22.24	0.0048	
13 8913 -10	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129918

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 29, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8912:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/27/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC-WTC_000129919

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/27/02 11:00:00 PM
ATC Group #: 8912
Analysis Date: 9/29/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
3 8912 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
4 8912 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
5 8912 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
6 8912 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
7 8912 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129920

NYC-WTC_00012992

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME

[ ] 2 hrs [ ] 6 hrs [ ] 48 hrs [ ] Standard
[ ] 4 hrs [ ] 24 hrs [ ] 72 hrs [ ] Other

PROJECT INFORMATION

8912 5/8 3238-3245 1522906

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	0002	CJOHNSON	CJ001
	2a. Project Address: 125 CEDAR ST	3a. Task # 0002	4a. Air Sampler: — " —	

5. Date:	6. Abatement Location:	7. [ ] PCM (0.8 micron MCE)	8. [X] TEM (0.45 micron MCE)	9. Type:	
9/28/02	ENTIRE	Cassette/Filter Manufacture:	Cassette/Filter Manufacture: MIXED	a. [ ] Background	c. [X] Abatement
		Lot #:	Lot #: 911	b. [ ] Pre-Abate	d. [ ] Post-Abate
				e. [ ] OSHA	f. [ ] Environmental
					g. [ ] Ambient
					h. [ ] Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location			13. Time (24 hrs clock)			14. Flow Rate (L/min.)			15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
		12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
01				Field Blank									
02				Field Blank									
03				2 FL D/CON CLEAN KM	1432	2204	4,30	04	4	4	180		
04				1 FL WASTE CLEAN KM	1433	2203	4,30	04	4	4	180		
05				STORE COMPLE CLEAN KM	1434	2204	4,30	04	4	4	180		
06				FRONT of CONTAINING BUILDING EAST	1436	2206	4,30	04	4	4	180		
07				FRONT of BUILDING WEST	1438	2208	4,30	04	4	4	180		
08				CLOSE BLANK									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		09/27/02	2300
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By:	9/29/02	11:10
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
- [ ] Nikon Labophot 238913
- [ ] Nikon Labophot 238917
- [ ] Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B SALIMI

27. Result To: B SALIMI
Beeper/Phone #'s

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th F
New York, New York 1001(
www.atc-enviro.com
212.353.828(
Fax 212.353.830(

September 29, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8911:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/27/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/27/02 11:00:00 PM
ATC Group #: 8911
Analysis Date: 9/29/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 8911 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
2 8911 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
3 8911 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
4 8911 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
5 8914 -5	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129923

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8911 5/8 3230-3237

Page _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Cleanup	33406 02		SD 02 S
	2a. Project Address: 125 Cedars St NY NY	3a. Task # 02	4a. Air Sampler: [illegible]	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9/29/02	Entire	Cassette/Filter Manufacture MMI Lot #	Cassette/Filter Manufacture MMI Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other Cleanup

DAILY AIR SAMPLE RECORD

10 Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B1 B2				Field Blank									
B3				Field Blank Sealed Blank									
1				outside bldg North side up the seafold	1430	2200	450	4	4	4	1800		
2				" " S/W corner	1435	2205	450	4	4	4	1800		
3				" " S/E corner	1438	2208	450	4	4	4	1800		
4				" " 10' off wall N/W	1441	2211	450	4	4	4	1800		
5				" " 10' off wall N/E	1444	2215	451	4	4	4	1804		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [illegible]	[illegible]	09/27/02	2300
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: [illegible]	9/29/02	9:15
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Solleni

27. Result To: B Solleni
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 1
New York, New York
www.atc-envir
212.353
Fax 212.353

September 28, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8907:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/28/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates
104 East 25 Street, New York, NY 10010
Phone: (212) 353-8280 Fax: (212) 353-8306

Received: 9/28/02 8:00:00 AM
ATC Group #: 8907
Analysis Date: 9/28/02

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
1 *8907 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
2 *8907 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
3 *8907 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
4 *8907 -4*	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
5 *8907 -5*	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129926

NYC-WTC_000129927

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP clean up	17606		SD-005
	2a. Project Address: 125 Cedar St and NY	3a. Task #: 02	4a. Air Sampler: Vic Kostiskowski	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture: X Lot #:	8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacture: MAI Lot #: 916	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other (4 hour)
9.21.02	Entire			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B1,B2				Field Blank									
B3				Field Blank Sealed Blank									
1			✓	outside bldg North side uptile scaffold	1430	2200	450	4	4	4	1800		
2			✓	" " S/W corner	1435	2205	450	4	4	4	1800		
3			✓	" " S/E corner	1438	2209	450	4	4	4	1802		
4			✓	" " 10' off wall NW	1441	2241	451	4	4	4	1804		
5			✓	" " 10' off wall NE	1443	2244	451	4	4	4	1804		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		9/28	8:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/28	12:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
(TEM - AHERA)

26. ATC Project Manager:	27. Result To:	28. Comments:
B. Sullivan	B. Sullivan Beeper/Phone #'s:	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 28, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8906:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/28/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/28/02 8:00:00 AM
ATC Group #: 8906
Analysis Date: 9/28/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8906 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 8906 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8906 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8906 -4	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
07 8906 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129929

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8906 5/8 3164-3171 1522906

Page 1 of 1

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client: DEP	2. Project Name: DEP CLEAN UP	3. Project #: 0002	4. Project Monitor: C JOHNSON	4c. Rotameter Number: CJ001
	2a. Project Address: 125 CEDAR ST	3a. Task #: 0002	4a. Air Sampler: — " —	

5. Date: 9-27-02	6. Abatement Location: ENTIRE	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # _____	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture MMF Lot # 916	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			/	D/CON 2 FL CLEAN RM	1430	2200	450	04	4	4	1800		
04			/	1 FL WASTE CLEAN RM	1431	2201	450	04	4	4	1800		
05			/	STORE WASTE CLEAN RM	1432	2203	450	04	4	4	1800		
06			/	FRONT of Building EAST SIDE	1434	2205	451	04	4	4	1804		
07			/	FRONT of Building WEST SIDE	1435	2205	450	04	4	4	1800		
08				CLOSE BLANK									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	[signature]	9/28	8:00
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	9/28	12:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Stallini

27. Result To: B Stallini
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 28, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8905:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/27/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/27/02 4:00:00 PM
ATC Group #: 8905
Analysis Date: 9/28/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8905 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8905 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8905 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8905 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8905 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8905 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8905 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request

Accredited for NVLAP PLM/TEM #101187-0 NY State ELAP #10879

NYC-WTC_000129932

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/27/02 4:00:00 PM
ATC Group #: 8905
Analysis Date: 9/28/02

Project: DEP Clean-up Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
11 8905 -8	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 8905 -9	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129933

NYC-WTC_000129934

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

$905 9/12 3152-3163

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number
DEP	DEP clean-up	15-22906-0002		S.D-006
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9.27.2	Around building	Cassette Filter Manufacture: _____ Lot #: _____	Cassette Filter Manufacture: MMI Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

DAILY AIR SAMPLE RECORD

10 Sample I.D. Number	11 Pump Number	12. Sample Location 12a IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16 # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02,03				Field Blank									
04			V	In front of building	06:30	14:00	450	4	4	4	1800		
05			V	" "	06:31	14:01	450	4	4	4	1800		
06			V	In back of building	06:40	14:10	450	4	4	4	1800		
07			V	" "	06:41	14:11	450	4	4	4	1800		
08			V	" "	06:42	14:12	450	4	4	4	1800		
09			V	" "	06:43	14:13	450	4	4	4	1800		
10			V	" "	06:44	14:14	450	4	4	4	1800		
11			V	Hallway Clean room of deca	06:50	14:20	450	4	4	4	1800		
12			V	2nd floor " "	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		9.27.2	
II	TP	9/27/07	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/28	11:20
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s: _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY 1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 30, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8916:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/30/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/30/02 8:00:00 AM
ATC Group #: 8916
Analysis Date: 9/30/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 8916 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
2 8916 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
3 8916 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
4 8916 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
5 8916 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129936

NYC-WTC_00012993

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

8916 518 3280-3287

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DCP	DCP Cortlandt 4	32806-02		LD 005
	2a. Project Address: 115 Cedar St NY NY	3a. Task #: 02	4a. Air Sampler: Mine Monitoring	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9/9/02	5 Mile	Cassette/Filter Manufacture: X Lot #:	Cassette/Filter Manufacture: APPT Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other Perimeter

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B1B2				Field Blank									
B3				Field Blank Sealed Blank									
1			V	outside bldg Northside up the scaffold	1456	2200	450	4	4	4	1800		
2			V	" " NW corner	1455	2205	450	4	4	4	1800		
3			V	" " SE corner	1438	2208	450	4	4	4	1800		
4			V	" " 10' OFF wall NW	1441	2211	450	4	4	4	1800		
5			V	" " 10' OFF wall NE	1444	2214	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	FE	9/30/02	8 am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRuy	9/30/02	11:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sullivan

27. Result To: B. Sullivan
Beeper/Phone #'s

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 30, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8915:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 09/30/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/30/02 8:00:00 AM
ATC Group #: 8915
Analysis Date: 9/30/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 *8915 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 *8915 -2*	1800.00	0.0450	0	CHRYSOTILE	1	0	0.0048	22.24	0.0048	
05 *8915 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 *8915 -4*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 *8915 -5*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

Analyzed by: ROMAN PEYSAKHOV

Approved by: MICHAEL A. GORYCKI, Ph.D

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000129939

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8915 518 3272-3279 1522906

Page 1 of 1

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	0002	C Johnson	CJ001
	2a. Project Address: 125 CEDAR ST	3a. Task #: 0002	4a. Air Sampler: JOHNSON	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9-29-02	ENTIRE	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MMF Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03				D/LOW CLEAN KM & FL	1430	2200	450	04	4	4	1800		
04				WASTE 1 FL CLEAN KM	1431	2201	450	04	4	4	1800		
05				D/LOW WASTE STORE	1432	2202	450	04	4	4	1800		
06				FRONT OUT SIDE WEST	1434	2204	450	04	4	4	1800		
07				FRONT OUT SIDE EAST	1436	2206	450	04	4	4	1800		
08				CLOSE BLANK									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	[signature]	9/30/02	8 am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRUY	9/30/02	11:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: S Sallini

27. Result To: B Sallini
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

September 30, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8914:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/30/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 9/30/02 8:00:00 AM
ATC Group #: 8914
Analysis Date: 9/30/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8914 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8914 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8914 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8914 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8914 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8914 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8914 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129942

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/30/02 8:00:00 AM
ATC Group #: 8914
Analysis Date: 9/30/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8914 -8	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 8914 -9	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
13 8914 -10	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129943

NYC-WTC_00012944

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8/14 10/13 3259-3271

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22906-0002		SD-006
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
9.29.2	Around building	Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: MMF Lot #: 916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			✓	In front of building	06:30	14:00	450	4	4	4	1800		
05			✓	— " —	06:31	14:01	450	4	4	4	1800		
06			✓	In back of building	06:40	14:10	450	4	4	4	1800		
07			✓	— " —	06:41	14:11	450	4	4	4	1800		
08			✓	— " —	06:42	14:12	450	4	4	4	1800		
09			✓	— " —	06:43	14:13	450	4	4	4	1800		
10			✓	— " —	06:44	14:14	450	4	4	4	1800		
11			✓	Restaurant. Clean room of decon	06:50	14:20	450	4	4	4	1800		
12			✓	Hallway — " —	06:52	14:22	450	4	4	4	1800		
13			✓	2nd Floor — " —	06:54	14:24	450						

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
E Lemanovich		9.29.2	
II	JE	9/30/02	8:00 am
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC - TEM	23. Date:	24. Time:
a. Analyzed By: RPerez	9/30/02	11:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s: ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 1, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8919:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 10/01/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC-WTC_000129946

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 2

TURNAROUND TIME: ☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard ☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

8919 5/8 3308-3315 1522906

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	0002	C Johnson	CJOOP
	2a. Project Address: 125 CEDAR ST	3a. Task # 0002	4a. Air Sampler: — " —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
7-30-02	ENTIRE	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			/	D/LOW 2th CLEAN RM	1430	2200	450	04	4	4	1800		
04			/	D/LOW STORE WASTE	1431	2201	450	04	4	4	1800		
05			/	D/LOW STORE PERSONAL	1432	2202	450	04	4	4	1800		
06			/	FRONT of BUILDING EAST SIDE	1435	2205	450	04	4	4	1800		
07			/	FRONT of BUILDING WEST SIDE	1436	2206	450	04	4	4	1800		
08				CLOSE BLANK									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JD	10/01/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	10/1	10:05
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
- ☐ Nikon Labophot 238913
- ☐ Nikon Labophot 238917
- ☐ Nikon Labophot 239079

26. ATC Project Manager: B Sallimi

27. Result To: B Sallimi
Beeper/Phone #'s ____

28. Comments:

Analysis Methodology
- PCM - NIOSH 7400A
- TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC Associates
104 East 25 Street, New York, NY 10010
Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/1/02 8:00:00 AM
ATC Group #: 8919
Analysis Date: 10/1/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*# Structures 5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*Asbestos Concentration (S/cc)*	*Notes*
03 *8919 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 *8919 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 *8919 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 *8919 -4*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 *8919 -5*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129947

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 1, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8918:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 09/30/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 9/30/02 4:00:00 PM
ATC Group #: 8918
Analysis Date: 10/1/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8918 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8918 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8918 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8918 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8918 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8918 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8918 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129949

NYC-WTC_00012995O

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8918 9/12 - 3296-3307

Page 1 of 1

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22906-0002		S.D. 006
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
9 30.2	Around building	Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: ____ Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15 Total Air Vol. (liters)	16. # Fibers Fields Minus Blank	17 Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			✓	2nd Floor Cleanroom of decon	06:30	14:00	450	4	4	4	1800		
05			✓	Hallway	06:31	14:01	450	4	4	4	1800		
06			✓	In back of building	06:40	14:10	450	4	4	4	1800		
07			✓	〃	06:41	14:11	450	4	4	4	1800		
08			✓	〃	06:42	14:12	450	4	4	4	1800		
09			✓	〃	06:43	14:13	450	4	4	4	1800		
10			✓	〃	06:44	14:14	450	4	4	4	1800		
11			✓	Restaurant Cleanroom of decon	06:50	14:20	450	4	4	4	1800		
12			✓	Hall	06:52	14:22	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
E Lemanovich		9.30.2	
I	FD	9/30/02	16:00
II			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: R Perez	10/1/02	10:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s: ____

28. Comments:

WHITE - File YELLOW - Client Report PINK - Lab GOLDENROD - Field

NY 1 (1.01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 1, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8920:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 10/01/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002

Received: 10/1/02 8:00:00 AM
ATC Group #: 8920
Analysis Date: 10/1/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 8920 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
2 8920 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
3 8920 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
4 8920 -4	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
5 8920 -5	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129952

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8920 5/8 3316-3323

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Cleanup	22906.02		SD 005
	2a. Project Address: 125 Cedar ST NY NY	3a. Task # 02	4a. Air Sampler: Tim Kustislavskiy	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9300	Entire	Cassette/Filter Manufacture X Lot #	Cassette/Filter Manufacture MNT Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other Cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B1 B2				Field Blank									
B3				Field Blank									
1			✓	outside bldg North side up the scaffold	1430	2200	450	4	4	4	1800		
2			✓	" " S/W corner	1435	2205	450	4	4	4	1800		
3			✓	" " S/E corner	1436	2208	450	4	4	4	1800		
4			✓	" " 10' off wall N/W	1441	2212	451	4	4	4	1804		
5			✓	" " 10' off wall N/E	1444	2215	451	4	4	4	1804		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	JR	10/01/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	10/1	10:50
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: B. Salleni

27. Result To: B. Salleni
Beeper/Phone #'s _____

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 8, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8942:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 10/08/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received <u>full accreditation</u> from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280
Project: DEP Clean-up ATC Project #: 22906-0002

Received: 10/8/02 11:00:00 AM
ATC Group #: 8942
Analysis Date: 10/8/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8942 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8942 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8942 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8942 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8942 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8942 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8942 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by

MICHAEL A. GORYCKI, Ph.D
Approved by

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129955

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002

Received: 10/8/02 11:00:00 AM
ATC Group #: 8942
Analysis Date: 10/8/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 *8942 -8*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 *8942 -9*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
13 *8942 -10*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129956

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page _____ of _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8942 10/13 3529-3541

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22306-0002		SD-006
	2a. Project Address: 125 Cedar St. NY	3a. Task # 30002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
10.07.02	Around building	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture AMI Lot # 916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Clean.

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			✓	In back of building	06:30	14:00	450	4	4	4	1800		
05			✓	— " —	06:31	14:01	450	4	4	4	1800		
06			✓	— " —	06:32	14:02	450	4	4	4	1800		
07			✓	— " —	06:33	14:03	450	4	4	4	1800		
08			✓	— " —	06:34	14:04	450	4	4	4	1800		
09			✓	2nd Floor	06:40	14:10	450	4	4	4	1800		
10			✓	Hall	06:45	14:15	450	4	4	4	1800		
11			✓	In front of building	06:50	14:20	450	4	4	4	1800		
12			✓	— " —	06:53	14:23	450	4	4	4	1800		
13			✓	Restaurant. Clean room & decon	06:56	14:26	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		10.7.2	
II	JD	10/8/02	11:00am
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/8	13:45
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Salleni

27. Result To: B Salleni
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000129957

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th
New York, New York 100
www.atc-enviro.cc
212.353.82
Fax 212.353.83

October 5, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8935:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 10/04/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/4/02 4:00:00 PM
ATC Group #: 8935
Analysis Date: 10/5/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 *8935 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 *8935 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 *8935 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 *8935 -4*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 *8935 -5*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 *8935 -6*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 *8935 -7*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129959

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/4/02 4:00:00 PM
ATC Group #: 8935
Analysis Date: 10/5/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
11 *8935 -8*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 *8935 -9*	1800.00	0.0450	0	CHRYSOTILE	0	1	0.0048	22.24	0.0048	
13 *8935 -10*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129960

ATC ASSOCIATES INC.

8935

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

10/13 3449-3461

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name:	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22906-0002		SD-006
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
10.04.02	Around building	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MMF Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10 Sample I.D. Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			✓	In front of building	06:30	14:00	450	4	4	4	1800		
05			✓	— " —	06:31	14:01	450	4	4	4	1800		
06			✓	In back of building	06:40	14:10	450	4	4	4	1800		
07			✓	— " —	06:41	14:11	450	4	4	4	1800		
08			✓	— " —	06:42	14:12	450	4	4	4	1800		
09			✓	— " —	06:43	14:13	450	4	4	4	1800		
10			✓	— " —	06:44	14:14	450	4	4	4	1800		
11			✓	Restaurant Clean room of deco	06:50	14:20	450	4	4	4	1800		
12			✓	Hall	06:52	14:22	450	4	4	4	1800		
13			✓	2nd Floor Clean room of deco	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		10.4.2	
II	[illegible]	10/4/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: [illegible]	23. Date:	24. Time:
a. Analyzed By: [illegible]	10/5	11:10
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallemi

27. Result To: B Sallemi
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 7, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8938:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 10/06/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 10/6/02 8:00:00 AM
ATC Group #: 8938
Analysis Date: 10/7/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8938 -1	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
05 8938 -2	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
06 8938 -3	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
07 8938 -4	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
08 8938 -5	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
09 8938 -6	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
10 8938 -7	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	

ROMAN PEYSAKHOV
Analyzed by: RRuy

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129963

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/6/02 8:00:00 AM
ATC Group #: 8938
Analysis Date: 10/7/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
11 *8938 -8*	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
12 *8938 -9*	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
13 *8938 -10*	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129964

NYC-WTC_000129965

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8938 10/13 3493-3505

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22906.002		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task #: 50002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
10.05.02	Around building	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: MMI Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Clean-up

DAILY AIR SAMPLE RECORD

10 Sample I.D Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			V	In front of building	09:00	17:00	480	4	4	4	1920		
05			V	"	09:01	17:01	480	4	4	4	1920		
06			V	In back of building	09:10	17:10	480	4	4	4	1920		
07			V	"	09:11	17:11	480	4	4	4	1920		
08			V	"	09:12	17:12	480	4	4	4	1920		
09			V	"	09:13	17:13	480	4	4	4	1920		
10			V	"	09:14	17:14	480	4	4	4	1920		
11			V	Restaurant Clean room 5 floor	09:20	17:20	480	4	4	4	1920		
12			V	Hall	09:22	17:22	480	4	4	4	1920		
13			V	2nd Floor Clean room 5 floor	09:24	17:24	480	4	4	4	1920		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I C. Lemanovich		10.5.2	
II	JE	10/5/02	8pm
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRuy	10/7/02	11:15
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallemi

27. Result To: Sallemi
Beeper/Phone #'s: _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY 1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 3, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8926:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 10/02/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002

Received: 10/2/02 4:00:00 PM
ATC Group #: 8926
Analysis Date: 10/3/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8926 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8926 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8926 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8926 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8926 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8926 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8926 -7	1800.00	0.0450	0	CHRYSOTILE	0	1	0.0048	22.24	0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129967

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002

Received: 10/2/02 4:00:00 PM
ATC Group #: 8926
Analysis Date: 10/3/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8926 -8	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 8926 -9	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
13 8926 -10	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129968

NYC-WTC_00012969

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

$926 10/13 3270-3382

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22306-0002		SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task #: 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
10.02.02	Around building	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: MMI Lot #: 916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10 Sample I.D Number	11 Pump Number	12. Sample Location			13. Time (24 hrs clock)			14. Flow Rate (L/min.)			15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
		12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b Avg			
01				Field Blank									
02 03				Field Blank									
04			V	In front of building	06:30	14:00	450	4	4	4	1800		
05			V	"	06:31	14:01	450	4	4	4	1800		
06			V	In back of building	06:40	14:10	450	4	4	4	1800		
07			V	"	06:41	14:11	450	4	4	4	1800		
08			V	"	06:42	14:12	450	4	4	4	1800		
09			V	"	06:43	14:13	450	4	4	4	1800		
10			V	"	06:44	14:14	450	4	4	4	1800		
11			V	Restaurant Cleanroom of dem	06:50	14:20	450	4	4	4	1800		
12			V	Hall	06:52	14:22	450	4	4	4	1800		
13			V	2nd Floor Cleanroom of dem	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		10.2.2	
II		10/3	16:10
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/3	16:10
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
~~TEM - AHERA~~

26. ATC Project Manager: B Sallemi

27. Result To: B Sallemi
Beeper/Phone #'s: _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th F
New York, New York 1001(
www.atc-enviro.con
212.353.828(
Fax 212.353.830(

October 3, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8928:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 10/03/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates
104 East 25 Street, New York, NY 10010
Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280
Project: DEP Clean-up ATC Project #: 22906-0002

Received: 10/3/02 8:00:00 AM
ATC Group #: 8928
Analysis Date: 10/3/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
1 *8928 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
2 *8928 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
3 *8928 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
4 *8928 -4*	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
5 *8928 -5*	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129971

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8928 518 3391-3398

JECT INFORMATION

ent: DEP	2. Project Name: DEP Clean Up	3. Project #: 2290 B-02	4. Project Monitor:
	2a. Project Address: 125 Cedar St NY NY	3a. Task #: 02	4a. Air Sampler: Tim Ansel Islavskij
ate: 2.02.02	6. Abatement Location: Entire	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture: X Lot #:	8. ☑ TEM (0.45 micron MCE) Cassette/Filter Manufacture: MMI Lot #: 910

4c. Rotameter Number: 3D-005

9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Clean Up

LY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
..132				Field Blank									
3 3				Field Blank Sealed Blank									
1			✓	outside the bldg North side up the scaffold	1430	2200	450	4	4	4	1800		
2			✓	" " S/W corner	1435	2205	450	4	4	4	1800		
3			✓	" " S/E corner	1437	2207	450	4	4	4	1800		
4			✓	" " 10' off wall N/W	1439	2210	451	4	4	4	1804		
5			✓	" " 10' off wall N/E	1441	2212	451	4	4	4	1804		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	[signature]	10/3/02	8 am
II			
III			

26. ATC Project Manager: [signature]

27. Result To: B. Sallenj

Phone/Phone #'s

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	10/3	11:25
b. QC By:		
c. Lab Batch #:		

28. Comments:

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 1(
New York, New York
www.atc-envirc
212.353.
Fax 212.353.

October 3, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8927:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 10/03/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002

Received: 10/3/02 8:00:00 AM
ATC Group #: 8927
Analysis Date: 10/3/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8927 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 8927 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8927 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8927 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8927 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129974

NYC-WTC_000129975

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8927 STR 3383-3490 152206

PROJECT INFORMATION

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	2002	C JOHNSON	CJ001
	2a. Project Address: 125 CEDAR ST	3a. Task #: 2002	4a. Air Sampler: — " —	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
10/2/02	ENTIRE	Cassette/Filter Manufacture:	Cassette/Filter Manufacture: MMF	a. ☐ Background, b. ☐ Pre-Abate, ~~c.~~ ☒ Abatement, d. ☐ Post-Abate, e. ☐ OSHA, f. ☐ Environmental, g. ☐ Ambient, h. ☐ Other
		Lot #:	Lot #: 916	

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			✓	2 FL D/CON CLEAN RM	1431	2201	450	04	4	4	1800		
04			✓	1 FL CONSTR CLEAN RM	1432	2202	410	04	4	4	1800		
05			✓	STORE CONSTR CLEAN RM	1433	2203	410	04	4	4	1800		
06			✓	FRONT OF BUILDING EAST SIDE	1435	2205	410	04	4	4	1800		
07			✓	FRONT BUILDING WEST SIDE	1437	2207	410	04	4	4	1800		
08				CLOSE BLANK									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I C Johnson	JD	10/3/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/3	10:15
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Results To:	28. Comments:
B Shillini	B Shillini	
	Beeper/Phone #'s:	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1.01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 4, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8932:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 10/03/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received <u>full accreditation</u> from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC-WTC_000129977

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8932 10/13 3422-3434

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22906-0002		S:D-006
	2a. Project Address: 125 Cedar St NY	3a. Task #: 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
10.03.02	Around Building	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: MMF Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			V	In front of building	06:30	14:00	450	4	4	4	1800		
05			V	— " —	06:31	14:01	450	4	4	4	1800		
06			V	In back of building	06:40	14:10	450	4	4	4	1800		
07			V	— " —	06:41	14:11	450	4	4	4	1800		
08			V	— " —	06:42	14:12	450	4	4	4	1800		
09			V	— " —	06:43	14:13	450	4	4	4	1800		
10			V	— " —	06:44	14:14	450	4	4	4	1800		
11			V	Restaurant cleanroom of elev	06:50	14:20	450	4	4	4	1800		
12			V	Hall	06:52	14:22	450	4	4	4	1800		
13			V	2nd Floor Cleanroom of elev	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		10.3.2	
II	JE	10/3/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/4	10:50
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
(TEM - AHERA)

26. ATC Project Manager: B. Salleni

27. Result To: B Salleni
Beeper/Phone #'s: _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002

Received: 10/3/02 4:00:00 PM
ATC Group #: 8932
Analysis Date: 10/4/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
04 *8932 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 *8932 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 *8932 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 *8932 -4*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 *8932 -5*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 *8932 -6*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 *8932 -7*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129978

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/3/02 4:00:00 PM
ATC Group #: 8932
Analysis Date: 10/4/02

Project: DEP Clean-up ATC Project #: 22906-0002

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
11 *8932 -8*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 *8932 -9*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
13 *8932 -10*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129979

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 2, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8922:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 10/01/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/1/02 4:00:00 PM
ATC Group #: 8922
Analysis Date: 10/2/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8922 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8922 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8922 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8922 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8922 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8922 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8922 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129981

NYC 9/11 Public Portal Document

Attn: Benjamin Sailemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 10/1 02 4:00:00 PM
ATC Group #: 8922
Analysis Date: 10/2 02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 8922 -8	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
12 8922 -9	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
13 8922 -10	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129982

NYC-WTC_00012983

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8922 10/13 3336-3348

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22506-0002		S:D - 006
	2a. Project Address: 115 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
10 01 02	Around building	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture MMI Lot # 316	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10 Sample I.D. Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02 03				Field Blank									
04			✓	In front of building	06:30	14:00	450	4	4	4	1800		
05			✓	— " —	06:31	14:01	450	4	4	4	1800		
06			✓	In back of building	06:40	14:10	450	4	4	4	1800		
07			✓	— " —	06:41	14:11	450	4	4	4	1800		
08			✓	— " —	06:42	14:12	450	4	4	4	1800		
09			✓	— " —	06:43	14:13	450	4	4	4	1800		
10			✓	— " —	06:44	14:14	450	4	4	4	1800		
11			✓	Restaurant Cleanroom of dem	06:50	14:20	450	4	4	4	1800		
12			✓	Hallway — " —	06:52	14:22	450	4	4	4	1800		
13			✓	2nd Floor — " —	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		10.1.2	
II	JD	10/01/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/2	10:15
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallemi

27. Result To: B Sallemi
Beeper/Phone #'s ____

28. Comments:

WHITE File YELLOW - Client/Report PINK Lab GOLDENROD - Field

DY-1 (1-01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 2, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8923:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 10/02/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street. New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street. New York, NY

Received: 10/2/02 8:00:00 AM
ATC Group #: 8923
Analysis Date: 10/2/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
1 *8923 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
2 *8923 -2*	180.00	0.4384	0	None Detected	0	0	0.0049	<2.28	<0.0049	
8923 -3	180.00	0.4384	0	None Detected	0	0	0.0049	<2.28	<0.0049	
4 *8923 -4*	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
5 *8923 -5*	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129985

NYC-WTC_00012998

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page ____

TURNAROUND TIME

[ ] 2 hrs [ ] 6 hrs [ ] 48 hrs [ ] Standard
[ ] 4 hrs [ ] 24 hrs [ ] 72 hrs [ ] Other ____

PROJECT INFORMATION

8923 518 3349-3356

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Fresh Kills	22906.02		SD 595
	2a. Project Address: 125 Cedar St / NYNY	3a. Task # 02	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. [X] PCM (0.8 micron MCE) Cassette/Filter Manufacture: X Lot #: X	8. [X] TEM (0.45 micron MCE) Cassette/Filter Manufacture: MIT Lot #: 916	9. Type: a. [ ] Background b. [ ] Pre-Abate c. [ ] Abatement d. [ ] Post-Abate e. [ ] OSHA f. [ ] Environmental g. [ ] Ambient h. [X] Other: Clean
9.9.02	Fresh Kills			

DAILY AIR SAMPLE RECORD

10. Sample I.D Number	11 Pump Number	12. Sample Location 12a IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17 Fiber Conc. F/CC
3-1,3-2				Field Blank									
13-3				Field Blank Sealed Blank									
1			V	Outside Bldg Northside up Wind Side of Road	1430	2200	450	4	4	4	1800		
2			V	" " SW corner	1435	2205	450	4	4	4	1800		
3			V	" " SE corner	1437	2207	450	4	4	4	1800		
4			V	" " 10' off road N/W	1439	2210	451	4	4	4	1804		
5			V	" " 10' off road N/E	1441	2212	451	4	4	4	1804		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	JP	9/10/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/2	10:45
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
[ ] Nikon Labophot 238913
[ ] Nikon Labophot 238917
[ ] Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sullivan

27. Result To: B. Sullivan
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 2, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8924:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 10/02/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 Phone: (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/2/02 8:00:00 AM
ATC Group #: 8924
Analysis Date: 10/2/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 8924 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
04 8924 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8924 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8924 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8924 -5	1804.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129988

NYC-WTC_000129989

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

$924 578 3357-3364 1522806

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	0002	C JOHNSON	CJ001
	2a. Project Address: 25 CLARK ST	3a. Task #: 002	4a. Air Sampler: 4	

Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:	
9-11-02	ENTIRE	Cassette/Filter Manufacture:	Cassette/Filter Manufacture: MIF	a. ☐ Background	c. ☒ Abatement
		Lot #:	Lot #: 910	b. ☐ Pre-Abate	d. ☐ Post-Abate
				e. ☐ OSHA	f. ☐ Environmental
					g. ☐ Ambient
					h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			✓	2 FL D/CON CLEAN RM	1430	2200	430	04	4	4	1800		
04			✓	1 FL CONSTR CLEAN RM	1431	2201	430	04	4	4	1796		
05			✓	STORE D/CON CLEAN RM.	1432	2202	430	04	4	4	1792		
06			✓	FRONT of Building EAST	1434	2204	430	04	4	4	1784		
07			✓	FRONT of Building WEST	1435	2206	431	04	4	4	1804		
08				CLOSE BLANK									

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		JN	10/22/02	8am
II				
III				

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/2	11:10
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #.
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
S Salimi	S Salimi	
	Beeper/Phone #'s:	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 14, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8965:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 10/11/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/11/02 4:00:00 PM
ATC Group #: 8965
Analysis Date: 10/14/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 *8965 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 *8965 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 *8965 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 *8965 -4*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 *8965 -5*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 *8965 -6*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 *8965 -7*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129991

NYC-WTC_000129992

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

8965 7/10 3872-3881

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean - up	15-22956-0002		HP-22
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
10.11.02	Around building	Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: MMI Lot #: 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02 03				Field Blank									
04			✓	Hall	06:30	14:00	450	4	4	4	1800		
05			✓	In front of building	06:32	14:02	450	4	4	4	1800		
06			✓	"	06:34	14:04	450	4	4	4	1800		
07			✓	Restaurant Clean room	06:36	14:07	450	4	4	4	1800		
08			✓	In back of building	06:50	14:20	450	4	4	4	1800		
09			✓	"	06:52	14:22	450	4	4	4	1800		
10			✓	"	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		10.11.2	
II	JD	10/11/02	16:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: Kelly	10/14/02	11:50
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
B. Sallemi	B Sallemi	
	Beeper/Phone #'s: ____	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 13, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8954:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 10/10/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC-WTC_000129994

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8454 7/10 3862-3871

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number
DEP	DEP Clean up	75-22906.0002		HP. 22
	2a. Project Address 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

Date	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:	
10.10.02	Around building	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MMI Lot # 916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			V	Hall	06:30	14:00	450	4	4	4	1800		
05			V	In front of building	06:32	14:02	450	4	4	4	1800		
06			V	"	06:34	14:04	450	4	4	4	1800		
07			V	Restaurant Clean room	06:37	14:07	450	4	4	4	1800		
08			V	In back of building	06:50	14:20	450	4	4	4	1800		
09			V	"	06:52	14:22	450	4	4	4	1800		
10			V	"	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
E. Lemanovich		10.10.02	
I	JG	10/10/02	16:50
II			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RCully	10/13/02	15:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
B Salleni	B. Salleni	
	Beeper/Phone #'s _____	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/10/02 4:00:00 PM
ATC Group #: 8954
Analysis Date: 10/13/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8954 -1	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 8954 -2	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 8954 -3	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 8954 -4	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 8954 -5	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 8954 -6	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 8954 -7	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129995

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 12, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8953:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 10/09/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/9/02 3:15:00 PM
ATC Group #: 8953
Analysis Date: 10/12/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
4 *8953 -1*	2040.00	0.0450	0	None Detected	0	0	0.0042	<22.24	<0.0042	
5 *8953 -2*	2040.00	0.0450	0	None Detected	0	0	0.0042	<22.24	<0.0042	
8953 -3	2044.00	0.0450	0	None Detected	0	0	0.0042	<22.24	<0.0042	
7 *8953 -4*	2040.00	0.0450	0	None Detected	0	0	0.0042	<22.24	<0.0042	
8 *8953 -5*	2044.00	0.0450	0	None Detected	0	0	0.0042	<22.24	<0.0042	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000129997

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8953 5/8 3854-3861

Page _____

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP clean up	23706-02		SP-005
	2a. Project Address: 125 Cedar St NY NY	3a. Task #	4a. Air Sampler: Vin Hustislavsky	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
10.09.02	Entire	Cassette/Filter Manufacture X Lot #	Cassette/Filter Manufacture MNT Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other (clean up)

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
1				Field Blank									
2				Field Blank									
3				Sealed Blank									
4		✓		Hallway main entrance	600	1430	450	4	4	4	2040		
5		✓		inside personal Decon	601	1431	450	4	4	4	2040		
6			✓	in front of the Phone store	604	1434	450	4	4	4	2040		
7			✓	in Pantry entrance to the restaurant	605	1436	451	4	4	4	2044		
8			✓	in front of rear entrance to 125 cedar	606	1437	451	4	4	4	2044		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	[signature]	10/9/02	3:15P
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	10/12/02	18:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallenn

27. Result To: B. Sallenn
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 12, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8945:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Liberty St.
Samples received: 10/09/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/9/02 8:00:00 AM
ATC Group #: 8945
Analysis Date: 10/12/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 *8945 -1*	1680.00	0.0562	0	None Detected	0	0	0.0041	<17.79	<0.0041	
04 *8945 -2*	1680.00	0.0562	0	None Detected	0	0	0.0041	<17.79	<0.0041	
05 *8945 -3*	1680.00	0.0562	0	None Detected	0	0	0.0041	<17.79	<0.0041	
06 *8945 -4*	1680.00	0.0562	0	None Detected	0	0	0.0041	<17.79	<0.0041	
07 *8945 -5*	1680.00	0.0562	0	None Detected	0	0	0.0041	<17.79	<0.0041	
08 *8945 -6*	1680.00	0.0562	0	None Detected	0	0	0.0041	<17.79	<0.0041	
09 *8945 -7*	1680.00	0.0562	0	None Detected	0	0	0.0041	<17.79	<0.0041	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0. NY State ELAP #10879

NYC-WTC_000130000

NYC-WTC_00013001

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8945 719 3845-3853

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☑ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	22906.0002		HP-097
	2a. Project Address: 125 Cedar St.	3a. Task #: 2	4a. Air Sampler: R. Hosta	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
10.8.02	Liberty St	Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: Nuclepore Lot #: 98167498	a. ☐ Background b. ☐ Pre-Abate c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17 Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03			✓	inside Waste Decon outside ST.	A.M 7:30	P.M. 2:30	420	4.0	4.0	4.0	1680		
04			✓	North East side by Liberty ST.	7:35	2:35	420	4.0	4.0	4.0	1680		
05			✓	North West side by Liberty ST.	7:38	2:38	420	4.0	4.0	4.0	1680		
06			✓	West side of Liberty ST.	7:40	2:40	420	4.0	4.0	4.0	1680		
07			✓	South West side by Liberty ST.	7:41	2:41	420	4.0	4.0	4.0	1680		
08			✓	South East side by Liberty ST.	7:44	2:44	420	4.0	4.0	4.0	1680		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I R. Hosta	FE	10/9/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RKelly	10/12/02	15:30
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F Buckhardt

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000130002

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8945

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☑ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN-UP	22406-0002		HP-087
	2a. Project Address: 125 Cedar St.	3a. Task # 2	4a. Air Sampler: R. ACOSTA	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
10.8.02	Liberty St.	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: Nuclepore Lot #: _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
09			✓	On hallway ground floor	A.M. 8:00	P.M. 3:00	420	4.0	4.0	4.0	1680		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I K. Acosta	JE	10/9/02	8am
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RKuy	10/12/02	15:00
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: F. Burkhardt

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 11, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8946:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Floors 6-9
Samples received: 10/09/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/9/02 8:00:00 AM
ATC Group #: 8946
Analysis Date: 10/11/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
A-9N-01 *8946 -1*	3870.00	0.1236	36	CHRYSOTILE	1	2	0.0008	24.26	0.0024	Cellulose - 20 Structures,Gypsum -16 Structures
A-9N-02 *8946 -2*	3860.00	0.1236	16	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 4 Structures, Gypsum - 12 Structures
A-9N-03 *8946 -3*	3850.00	0.1236	34	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose -2 Structures, Gypsum - 29 Structures
A-9N-04 *8946 -4*	3840.00	0.1236	19	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 3 Structures, Gypsum - 16 Structures
A-9N-05 *8946 -5*	3830.00	0.1236	10	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 2 Structures,Gypsum - 8 Structures
A-9S-06 *8946 -6*	3910.00	0.1236	11	CHRYSOTILE	1	0	0.0008	8.09	0.0008	Cellulose -2 Structures, Gypsum - 9 Structures
A-9S-07 *8946 -7*	3900.00	0.1236	22	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 1 Structure, Gypsum - 21 Structures

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000130004

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 10/9/02 8:00:00 AM
ATC Group #: 8946
Analysis Date: 10/11/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
A-9S-08 *8946 -8*	3890.00	0.1236	27	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 5 Structures, Gypsum - 22 Structures
A-9S-09 *8946 -9*	3880.00	0.1236	19	CHRYSOTILE	1	0	0.0008	8.09	0.0008	Gypsum - 19 Structure
A-9S-10 *8946 -10*	3870.00	0.1236	11	CHRYSOTILE	1	1	0.0008	16.18	0.0016	Cellulose - 1 Structures, Glass - 10 Structure
A-8N-11 *8946 -11*	3870.00	0.1236	49	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 4 Structures, Gypsum - 45 Structures
A-8N-12 *8946 -12*	3860.00	0.1236	25	CHRYSOTILE	1	1	0.0008	16.18	0.0016	Cellulose - 2 Structures, Gypsum - 23 Structures
A-8N-13 *8946 -13*	3850.00	0.1236	21	CHRYSOTILE	0	1	0.0008	8.09	0.0008	Cellulose - 5 Structures, Gypsum - 16 Structures
A-8N-14 *8946 -14*	3840.00	0.1236	25	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 3 Structures, Gypsum - 21 Structure, Glass -1 Structures
A-8N-15 *8946 -15*	3830.00	0.1236	28	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 2 Structures, Gypsum - 25 Structures, Glass - 1 Structures
A-8S-16 *8946 -16*	3850.00	0.1236	9	CHRYSOTILE	0	1	0.0008	8.09	0.0008	Gypsum - 9 Structures, Glass - 1 Structure

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000130005

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 10/9/02 8:00:00 AM
ATC Group #: 8946
Analysis Date: 10/11/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
A-8S-17 *8946 -17*	3840.00	0.1236	24	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose -7 Structures, Gypsum - 14 Structures
A-8S-18 *8946 -18*	3830.00	0.1236	33	CHRYSOTILE	1	1	0.0008	16.18	0.0016	Cellulose - 3 Structures, Gypsum - 30 Structures
A-8S-19 *8946 -19*	3820.00	0.1236	28	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 7 Structures, Glass - 21 Structure
A-8S-20 *8946 -20*	3810.00	0.1236	17	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 2 Structures, Gypsum - 15 Structures
A-7N-21 *8946 -21*	3820.00	0.1236	21	CHRYSOTILE	0	1	0.0008	8.09	0.0008	Cellulose - 5 Structures, Gypsum - 16 Structures
A-7N-22 *8946 -22*	3810.00	0.1236	14	CHRYSOTILE	1	0	0.0008	8.09	0.0008	Cellulose -4 Structures, Gypsum - 8 Structures, Glass -2 Structure
A-7N-23 *8946 -23*	3800.00	0.1236	18	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 2 Structures, Gypsum - 16 Structures
A-7N-24 *8946 -24*	3790.00	0.1236	19	CHRYSOTILE	0	1	0.0008	8.09	0.0008	Cellulose - 1 Structures, Gypsum - 18 Structures
A-7N-25 *8946 -25*	3780.00	0.1236	9	CHRYSOTILE	0	1	0.0008	8.09	0.0008	Cellulose - 1 Structures, Gypsum - 8 Structures

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000130006

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 10/9/02 8:00:00 AM
ATC Group #: 8946
Analysis Date: 10/11/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
A-7S-26 *8946 -26*	3740.00	0.1236	10	CHRYSOTILE	1	0	0.0008	8.09	0.0008	Cellulose - 4 Structures, Gypsum - 6 Structures
A-7S-27 *8946 -27*	3730.00	0.1236	10	CHRYSOTILE	3	0	0.0008	24.26	0.0025	Cellulose - 1 Structures, Gypsum -9 Structures
A-7S-28 *8946 -28*	3720.00	0.1236	8	CHRYSOTILE	0	1	0.0008	8.09	0.0008	Cellulose - 3 Structures, Gypsum - 5 Structure
A-7S-29 *8946 -29*	3710.00	0.1236	23	CHRYSOTILE	0	1	0.0008	8.09	0.0008	Cellulose - 1 Structures, Gypsum - 22 Structures
A-7S-30 *8946 -30*	3700.00	0.1236	4	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose -2 Structures, Gypsum - 2 Structure
A-6N-31 *8946 -31*	3790.00	0.1236	30	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 6 Structures, Gypsum - 24 Structure
A-6N-32 *8946 -32*	3780.00	0.1236	28	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 1 Structures, Gypsum - 27 Structures
A-6N-33 *8946 -33*	3770.00	0.1236	16	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 2 Structures, Gypsum - 14 Structures
A-6N-34 *8946 -34*	3870.00	0.1236	16	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 7 Structures, Gypsum - 9 Structure

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000130007

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 10/9/02 8:00:00 AM
ATC Group #: 8946
Analysis Date: 10/11/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
A-6N-35 *8946 -35*	3760.00	0.1236	4	None Detected	0	0	0.0008	<8.09	<0.0008	Glass -4 Structure
A-6S-36 *8946 -36*	3850.00	0.1236	22	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 7 Structures, Gypsum - 15 Structures
A-6S-37 *8946 -37*	3840.00	0.1236	10	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 3 Structures, Glass - 7 Structure
A-6S-38 *8946 -38*	3830.00	0.1236	10	None Detected	0	0	0.0008	<8.09	<0.0008	Gypsum - 10 Structures
A-6S-39 *8946 -39*	3820.00	0.1236	11	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 1 Structure, Gypsum - 10 Structures
A-6S-40 *8946 -40*	3810.00	0.1236	28	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 7 Structures, Gypsum - 26 Structures
A-41 *8946 -41*	3800.00	0.1236	35	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose -1 Structures, Gypsum - 34 Structures
A-42 *8946 -42*	3790.00	0.1236	24	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 3 Structures, Gypsum - 21 Structures
A-43 *8946 -43*	3800.00	0.1236	19	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 2 Structures, Gypsum - 17 Structure

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000130008

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 10/9/02 8:00:00 AM
ATC Group #: 8946
Analysis Date: 10/11/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
A-44 *8946 -44*	3800.00	0.1236	23	CHRYSOTILE	0	3	0.0008	24.26	0.0025	Cellulose - 8 Structures, Gypsum - 15 Structures
A-45 *8946 -45*	3800.00	0.1236	29	CHRYSOTILE	2	1	0.0008	24.26	0.0025	Cellulose - 1 Structures, Gypsum -2 8 Structures
A-46 *8946 -46*	3790.00	0.1236	41	CHRYSOTILE	1	0	0.0008	8.09	0.0008	Cellulose - 4 Structures, Gypsum -37 Structures
A-47 *8946 -47*	3800.00	0.1236	33	CHRYSOTILE	0	2	0.0008	16.18	0.0016	Cellulose - 2 Structures, Gypsum - 31 Structures
A-48 *8946 -48*	3800.00	0.1236	22	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose -3 Structures, Gypsum - 19 Structures

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10873

NYC-WTC_000130009

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 5

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8946 48/53 3619-3671

PROJECT INFORMATION

1. Client: DEP
2. Project Name: DEP Clean-up
2a. Project Address: 125 Cedar St. NY
3. Project #: 15-22306-0002
3a. Task #: 00002
4. Project Monitor:
4a. Air Sampler: E. Lemanovich
4c. Rotameter Number: SD-006
5. Date: 10.08.02
6. Abatement Location:
7. ☑ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # 01283108
8. ☑ TEM (0.45 micron MCE) Cassette/Filter Manufacture _____ Lot # 376
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

Asbestos

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
A-9N-01		✓		PII	04:45	11:12	387	10	10	10	3870	7/100	<0.001
A-9N-02		✓		—"—	04:47	11:13	386	10	10	10	3860	8/100	<0.001
A-9N-03		✓		—"—	04:49	11:14	385	10	10	10	3850	7/100	<0.001
A-9N-04		✓		—"—	04:51	11:15	384	10	10	10	3840	6/100	<0.001
A-9N-05		✓		—"—	04:53	11:16	383	10	10	10	3830	6/100	<0.001
A-9S-06		✓		PII	04:56	11:27	391	10	10	10	3910	8/100	<0.001
A-9S-07		✓		—"—	04:58	11:28	390	10	10	10	3900	10/100	0.002
A-9S-08		✓		—"—	05:00	11:29	389	10	10	10	3890	7/100	<0.001
A-9S-09		✓		—"—	05:02	11:30	388	10	10	10	3880	10/100	0.001
A-9S-10		✓		—"—	05:04	11:31	387	10	10	10	3870	5/100	<0.001
A-8N-11		✓		PII	05:15	11:42	387	10	10	10	3870	6/100	<0.001
A-8N-12		✓		—"—	05:17	11:43	386	10	10	10	3860	8/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By	19. Received By	20. Date	21. Time
E Lemanovich	[signature]	10.8.02	1750
II	[signature]	10/9/02	8am
III			

26. ATC Project Manager: B Sallemi
27. Result To: B. Sallemi
Beeper/Phone #'s _____

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC	23. Date	24. Time
a. Analyzed By: [signature]	10/08/02	2200
b. QC By:		
c. Lab Batch #: 101530		

28. Comments:

25. Microscope Make/Serial #: Olympus CH2 1015
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_00013011

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

8946

1. Client	2. Project Name	3. Project #	4. Project Monitor	4c. Rotameter Number
DEP	DEP clean-up	15-22906-0002		SP-006
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date	6. Abatement Location	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10 02 02		Cassette/Filter Manufacturer: ____ Lot # 0128310B	Cassette/Filter Manufacturer: ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Asbestos cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
A-8N-13		✓		PII	05:19	11:44	325	10	10	10	3850	5/100	<0.001
A-8N-14		✓		"	05:21	11:45	384	10	10	10	3840	5/100	<0.001
A-8N-15		✓		"	05:23	11:46	383	10	10	10	3830	6/100	<0.001
A-8S-16		✓		PII	05:30	11:55	385	10	10	10	3850	7/100	<0.001
A-8S-17		✓		"	05:32	11:56	384	10	10	10	3840	6/100	<0.001
A-8S-18		✓		"	05:34	11:57	383	10	10	10	3830	12.5/100	0.002
A-8S-19		✓		"	05:36	11:58	382	10	10	10	3820	10/100	<0.001 O.K
A-8S-20		✓		"	05:38	11:59	381	10	10	10	3810	8/100	<0.001
A-7N-21		✓		PII	05:50	12:12	382	10	10	10	3820	15/100	0.002
A-7N-22		✓		"	05:52	12:13	381	10	10	10	3810	12/100	0.002
A-7N-23		✓		"	05:54	12:14	380	10	10	10	3800	5/100	<0.001
A-7N-24		✓		"	05:56	12:15	379	10	10	10	3790	8/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By	19. Received By	20. Date	21. Time
I E. Lemanovich		10.8.2	
II		10/9/02	8am
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC	23. Date	24. Time
a. Analyzed By:	10/08/02	2200
b. QC By:		
c. Lab Batch #: 10130		

25. Microscope Make/Serial #: OLYMPUS CH2/1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
✓ PCM - NIOSH 7-100A
TEM - AHERA

26. ATC Project Manager: B. Salleni

27. Result To: B Salleni
Beeper/Phone #'s: ____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY 1 (1/01)

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 3 of 5

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

8946

1. Client: DEP	2. Project Name: DEP Clean-up	3. Project #: 15-22906-0002	4. Project Monitor:
	2a. Project Address: 125 Cedar St NY	3a. Task #: 00002	4a. Air Sampler: E. Lemanovich
4c. Rotameter Number: SD-006			

5. Date: 10.08.02	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # 01283108	8. ☑ TEM (0.45 micron MCE) Cassette/Filter Manufacture _____ Lot # 876	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

Asbestos

10. Sample ID Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
A-7N-25		✓		PII	05:58	12:16	378	10	10	10	3780	6/100	<0.001
A-7S-26		✓			06:10	12:24	374	10	10	10	3740	7/100	<0.001
A-7S-27		✓		—"—	06:12	12:25	373	10	10	10	3730	5/100	<0.001
A-7S-28		✓		—"—	06:14	12:26	372	10	10	10	3720	5/100	<0.001
A-7S-29		✓		—"—	06:16	12:27	371	10	10	10	3710	10/100	0.001
A-7S-30		✓		—"—	06:18	12:28	370	10	10	10	3700	6/100	<0.001
A-6N-31		✓		PII	06:30	12:50	380	10	10	10	3800	9/100	<0.001
A-6N-32		✓		—"—	06:32	12:51	379	10	10	10	3790	14.5/100	0.002
A-6N-33		✓		—"—	06:34	12:52	378	10	10	10	3780	8/100	<0.001
A-6N-34		✓		—"—	06:36	12:53	377	10	10	10	3770	7/100	<0.001
A-6N-35		✓		—"—	06:38	12:54	376	10	10	10	3760	14/100	0.002
A-6S-36		✓		PII	06:50	13:15	385	10	10	10	3850	7/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich	[signature]	10.8.2	1750
II	[signature]	10/9/02	8am
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC		23. Date:	24. Time:
a. Analyzed By:	[signature]	10/08/02	2200
b. QC By:			
c. Lab Batch #:	101530		

25. Microscope Make/Serial #: OLYMPUS CH2/1005
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: B. Sallemi

27. Result To: B Sallemi
Beeper/Phone #'s _____

28. Comments:

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY 1 (1/01)

NYC-WTC_00013013

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8946

TURNAROUND TIME

[ ] 2 hrs [ ] 6 hrs [ ] 48 hrs [ ] Standard
[ ] 4 hrs [ ] 24 hrs [ ] 72 hrs [ ] Other _____

PROJECT INFORMATION

1. Client	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP. Clean - up	15-22906-0002		S.D. 006
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date	6. Abatement Location	7. [✓] PCM (0.8 micron MCE)	8. [✓] TEM (0.45 micron MCE)	9. Type:
10.02.02		Cassette/Filter Manufacture: _____ Lot #: 0128 3108	Cassette/Filter Manufacture: _____ Lot #: ~~SKG~~	a. [ ] Background b. [ ] Pre-Abate c. [ ] Abatement d. [ ] Post-Abate e. [ ] OSHA f. [ ] Environmental g. [ ] Ambient h. [✓] Other Cleaning Asbestos

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. f/CC
				Field Blank									
				Field Blank									
A-GS-37		✓		6 Floor Apartment South	06:52	13:16	384	10	10	10	3840	12/100	0.002
A-GS-38		✓		— " —	06:54	13:17	383	10	10	10	3830	7/100	<0.001
A-GS-39		✓		— " —	06:56	13:18	382	10	10	10	3820	4/100	<0.001
A-GS-40		✓		— " —	06:58	13:19	381	10	10	10	3810	5/100	<0.001
A-41		✓		9 Floor Laundry room	07:05	13:25	380	10	10	10	3800	8/100	<0.001
A-42		✓		Hall Elevator	07:07	13:26	379	10	10	10	3790	16/100	0.002
A-43		✓		8 Floor Hall Elevator	07:10	13:30	380	10	10	10	3800	10/100	0.001
A-44		✓		Staircase Between 7 and 8 floor	07:12	13:32	380	10	10	10	3800	14/100	0.002
A-45		✓		7 Floor Laundry room	07:15	13:35	380	10	10	10	3800	12/100	0.002
A-46		✓		Hall Elevator	07:17	13:36	379	10	10	10	3790	8/100	<0.001
A-47		✓		6 Floor Hall Elevator	07:20	13:40	380	10	10	10	3800	9/100	<0.001
A-48		✓		Staircase. Between 5 and 6 floor	07:22	13:42	380	10	10	10	3800	10/100	0.001

CHAIN OF CUSTODY

18. Relinquished By	19. Received By	20. Date:	21. Time:
I E Lemanovich	[illegible]	10.8.2	1750
II	[illegible]	10/9/02	[illegible]
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC	23. Date:	24. Time:
a. Analyzed By: [illegible]	10/08/02	2200
b. QC By:		
c. Lab Batch #: 101530		

25. Microscope Make/Serial #: OLYMPUS CH3/1015
[ ] Nikon Labophot 238913
[ ] Nikon Labophot 238917
[ ] Nikon Labophot 239079

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager	27. Result To	28. Comments:
B Sallemi	B Sallemi	
	Beeper/Phone #'s:	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_00013001

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8946

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

1. Client	2. Project Name	3. Project #	4. Project Monitor	4c. Rotameter Number
DEP	DEP Clean - ups	15-22306.0002		
	2a. Project Address 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date	6. Abatement Location	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.02.02		Cassette/Filter Manufacture ____ Lot # 01283108	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Asbestos Cleanup

DAILY AIR SAMPLE RECORD

10. Sample ID Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
49, 50.				Field Blank								0/100 0/100	
51, 52, 53				Field Blank								0/100 0/100 0/100	

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		10.8.2	1750
II		10/9/02	8am
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC	23. Date:	24. Time:
a. Analyzed By:	10/08/02	22:00
b. QC By:		
c. Lab Batch #: 10153c		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
☑ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager	27. Result To:	28. Comments:
B Sellemi	B. Sellemi	
	Beeper/Phone #'s	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY 1 (201)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Fl
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 13, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8950:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Floors 2-5
Samples received: 10/09/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/9/02 1:00:00 PM
ATC Group #: 8950
Analysis Date: 10/13/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
A 5S 03 *8950 -1*	3600.00	0.1236	71	CHRYSOTILE	0	3	0.0009	24.26	0.0026	Cellulose -3Structures, Gypsum - 68 Structures
A 5S 04 *8950 -2*	3600.00	0.1236	48	CHRYSOTILE	0	2	0.0009	16.18	0.0017	Cellulose - 1 Structures, Gypsum - 47 Structures
A 5S 05 *8950 -3*	3600.00	0.1236	83	CHRYSOTILE	8	0	0.0009	64.70	0.0069	Cellulose -1 Structures, Gypsum - 81 Structures, Glass - 1 Structures
A 5S 06 *8950 -4*	3600.00	0.1236	70	CHRYSOTILE	2	2	0.0009	32.35	0.0035	Cellulose - 1 Structures, Gypsum - 69 Structures
A 5S 07 *8950 -5*	3600.00	0.1236	12	CHRYSOTILE	2	0	0.0009	16.18	0.0017	Gypsum - 12Structures
A 5N 08 *8950 -6*	3600.00	0.1236	21	CHRYSOTILE	0	2	0.0009	16.18	0.0017	Gypsum - 21 Structures
A 5N 09 *8950 -7*	3600.00	0.1236	21	CHRYSOTILE	0	1	0.0009	8.09	0.0009	Gypsum - 21 Structures

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000130016

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 10/9/02 1:00:00 PM
ATC Group #: 8950
Analysis Date: 10/13/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
A 5N 10 *8950 -8*	3600.00	0.1236	19	CHRYSOTILE	1	1	0.0009	16.18	0.0017	Gypsum - 19 Structures
A 5N 11 *8950 -9*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures
A 5N 12 *8950 -10*	3600.00	0.1236	2	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structure. Gypsum - 1 Structures
A 5 13 *8950 -11*	3600.00	0.1236	2	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 2 Structures
A 5 14 *8950 -12*	3600.00	0.1236	2	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 2 Structures
A 4S 15 *8950 -13*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 1 Structures
A 4S 16 *8950 -14*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 1 Structures
A 4S 17 *8950 -15*	3600.00	0.1236	0	None Detected	0	0	0.0009	<8.09	<0.0009	
A 4S 18 *8950 -16*	3600.00	0.1236	2	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures, Gypsum - 1 Structures

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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NYC-WTC_000130017

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/9/02 1:00:00 PM
ATC Group #: 8950
Analysis Date: 10/13/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
A 4S 19 *8950 -17*	3600.00	0.1236	0	None Detected	0	0	0.0009	<8.09	<0.0009	
A 4N 20 *8950 -18*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures
A 4N 21 *8950 -19*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures
A 4N 22 *8950 -20*	3600.00	0.1236	3	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 3 Structures
A 4N 23 *8950 -21*	3600.00	0.1236	0	None Detected	0	0	0.0009	<8.09	<0.0009	
A 4N 24 *8950 -22*	3600.00	0.1236	10	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 2 Structures, Gypsum - 8 Structures
A 4 25 *8950 -23*	3600.00	0.1236	0	None Detected	0	0	0.0009	<8.09	<0.0009	
A 4 26 *8950 -24*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures
A 3S 27 *8950 -25*	3600.00	0.1236	2	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 2 Structures

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000130018

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 10/9/02 1:00:00 PM
ATC Group #: 8950
Analysis Date: 10/13/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5u-5	# Structures 5u	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
A 3S 28 *8950 -26*	3600.00	0.1236	1	CHRYSOTILE	1	0	0.0009	8.09	0.0009	Gypsum -1 Structures
A 3S 29 *8950 -27*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum -1 Structures
A 3S 30 *8950 -28*	3600.00	0.1236	3	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 3Structures
A 3S 31 *8950 -29*	3600.00	0.1236	4	CHRYSOTILE	1	0	0.0009	8.09	0.0009	Cellulose - 1 Structures, Gypsum - 3 Structures
A 3N 32 *8950 -30*	3600.00	0.1236	4	CHRYSOTILE	1	2	0.0009	24.26	0.0026	Cellulose - 1Structures, Gypsum - 3 Structures
A 3N 33 *8950 -31*	3600.00	0.1236	0	None Detected	0	0	0.0009	<8.09	<0.0009	
A 3N 34 *8950 -32*	3600.00	0.1236	2	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 2 Structures
A 3N 35 *8950 -33*	3600.00	0.1236	2	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 1 Structures, Glass - 1 Structures
A 3N 36 *8950 -34*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

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NYC-WTC_000130019

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/9/02 1:00:00 PM
ATC Group #: 8950
Analysis Date: 10/13/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
A 3 37 *8950 -35*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 1 Structures
A 3 38 *8950 -36*	3600.00	0.1236	7	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 2 Structures, Gypsum - 1 Structures, Glass - 4 Structures
A 2S 39 *8950 -37*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 1 Structures
A 2S 40 *8950 -38*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 1 Structures
A 2S 41 *8950 -39*	3600.00	0.1236	2	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures, Gypsum - 1 Structures
A 2S 42 *8950 -40*	3600.00	0.1236	6	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 6 Structures
A 2S 43 *8950 -41*	3600.00	0.1236	2	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures, Gypsum - 1 Structures
A 2N 44 *8950 -42*	3600.00	0.1236	3	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures, Gypsum - 2 Structures
A 2N 45 *8950 -43*	3600.00	0.1236	4	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 2 Structures, Gypsum - 2 Structures

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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NYC-WTC_000130020

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/9/02 1:00:00 PM
ATC Group #: 8950
Analysis Date: 10/13/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm²)*	*(S/cc)*	*Notes*
A 2N 46 *8950 -44*	3600.00	0.1236	2	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 1 Structures, Glass - 1 Structures
A 2N 47 *8950 -45*	3600.00	0.1236	3	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures, Gypsum - 2 Structures
A 2N 48 *8950 -46*	3600.00	0.1236	9	CHRYSOTILE	2	0	0.0009	16.18	0.0017	Cellulose - 6 Structures, Gypsum - 3 Structures
A 2 49 *8950 -47*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Gypsum - 1 Structures
A 1 50 *8950 -48*	3600.00	0.1236	1	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 1 Structures

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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NYC-WTC_000130021

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8950 48/53 3792-3844

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client: DEP	2. Project Name: DEP Clean-up	3. Project #: 22906-0002	4. Project Monitor: S. Etanyobeu
	2a. Project Address: 125 Cedar St. NY NY	3a. Task #: 00002	4a. Air Sampler: Ruben Acosta
4c. Rotameter Number: HP-22			
5. Date: 10/08/02	6. Abatement Location: Apts. 5th Floor	7. ☑ PCM (0.8 micron MCE) Cassette/Filter Manufacture: Multimetrics Lot #: 108	8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacture: _____ Lot #: _____

9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample ID Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
A01				Field Blank								0/100	
A02				Field Blank								0/100	
AS503		✓		5th Floor Apartment S	1630	2230	360	10.0	10.0	10.0	3600	63/100	0.009
AS504		✓		5th Floor Apartment South	1632	2232	360	10.0	10.0	10.0	3600	48/100	0.007
AS505		✓			1634	2234	360	10.0	10.0	10.0	3600	51/100	0.007
AS506		✓			1636	2236	360	10.0	10.0	10.0	3600	46/100	0.006
AS507		✓			1638	2238	360	10.0	10.0	10.0	3600	17/100	0.002
ASN08		✓		5th Floor Apartment North	1647	2247	360	10.0	10.0	10.0	3600	16/100	0.002
ASN09		✓			1650	2250	360	10.0	10.0	10.0	3600	37/100	0.005
ASN10		✓			1651	2251	360	10.0	10.0	10.0	3600	24/100	0.003
ASN11		✓			1654	2254	360	10.0	10.0	10.0	3600	2/100	<0.003
ASN12		✓			1656	2256	360	10.0	10.0	10.0	3600	5/100	<0.003
AS13		✓		5th FL. Halway	1700	2300	360	10.0	10.0	10.0	3600	4/100	<0.001
AS14		✓		5th FL ~~Stairway~~ Washr.	1701	2301	360	10.0	10.0	10.0	3600	13/100	0.002

CHAIN OF CUSTODY

18. Relinquished By	19. Received By	20. Date	21. Time
I. S. Etanyobeu	A. Elbeut	10/09/02	7:00 am
II. R. Acosta		10/9/02	13:00
III.			

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s: _____

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: PCM Lab	23. Date	24. Time
a. Analyzed By: A. Elbeut	10/09/02	15:00
b. QC By:		
c. Lab Batch #: 101533		

25. Microscope Make/Serial #: Olympus CH
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY 1 (1/01)

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8950

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client	2. Project Name	3. Project #	4. Project Monitor	4c. Rotameter Number
DEP	DEP Clean - up.	22906-0002	S. Etanyobere	HP-22
	2a. Project Address: 125 Cedar St NY NY	3a. Task # 00002	4a. Air Sampler: Ruben Acosta	

5. Date	6. Abatement Location	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10/08/02	4th FL. Apartments	Cassette/Filter Manufacture: Multimetrics; Lot #: 108	Cassette/Filter Manufacture: ____; Lot #: ____	a. ☐ Background; b. ☐ Pre-Abate; c. ☐ Abatement; d. ☐ Post-Abate; e. ☐ OSHA; f. ☐ Environmental; g. ☐ Ambient; h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
A4S15		✓		4th FL. Apartments South	1716	2316	360	10.0	10.0	10.0	3600	9/100	<0.001
A4S16		✓			1718	2318	360	10.0	10.0	10.0	3600	5/100	<0.001
A4S17		✓			1720	2320	360	10.0	10.0	10.0	3600	1/100	<0.001
A4S18		✓			1722	2322	360	10.0	10.0	10.0	3600	8/100	<0.001
A4S19		✓			1724	2324	360	10.0	10.0	10.0	3600	2/100	<0.001
A4N20		✓		4th FL Apartments North	1726	2326	360	10.0	10.0	10.0	3600	3/100	<0.001
A4N21		✓			1728	2328	360	10.0	10.0	10.0	3600	4/100	<0.001
A4N22		✓			1730	2330	360	10.0	10.0	10.0	3600	6/100	<0.001
A4N23		✓			1732	2332	360	10.0	10.0	10.0	3600	1/100	<0.001
A4N24		✓			1734	2334	360	10.0	10.0	10.0	3600	12/100	0.002
A4N25		✓		4th FL. Halway.	1736	2336	360	10.0	10.0	10.0	3600	6/100	<0.001
A4N26		✓		4th FL. Stair Way.	1737	2337	360	10.0	10.0	10.0	3600	9/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By	19. Received By	20. Date	21. Time
I S. Etanyobere	A. Ellen	10/09/02	7:00
II R. Acosta	TD	10/9/02	13:00
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: PCM lab	23. Date	24. Time
a. Analyzed By: A. Ellen	10/09/02	15:00
b. QC By:		
c. Lab Batch #: 101533		

25. Microscope Make/Serial #: Olympus CH2
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s _____

28. Comments:

WHITE File YELLOW - Client/Report PINK Lab GOLDENROD - Field

NY 1 (1/01)

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 5 of 8

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8950

PROJECT INFORMATION

1. Client: DEP
2. Project Name: DEP Clean-up.
2a. Project Address: 125 Cedar St NY NY
3. Project #: 229060002
3a. Task #: 00002
4. Project Monitor: S. Etanyobere
4a. Air Sampler: Ruben Acosta
4c. Rotameter Number: HP-22
5. Date: 10/08/02
6. Abatement Location: 3rd FL Apartments
7. ☑ PCM (0.8 micron MCE) Cassette/Filter Manufacture: Multimetrics Lot #: 108
8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacture _____ Lot # _____
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
A53				Field Blank								0/100	
				Field Blank									
A3527		✓		3rd FL. Apartments South	1812	2412	360	10.0	10.0	10.0	3600	7/100	<0.001
A3528		✓			1814	2414	360	10.0	10.0	10.0	3600	3/100	<0.001
A3529		✓			1816	2416	360	10.0	10.0	10.0	3600	5/100	<0.001
A3530		✓			1818	2418	360	10.0	10.0	10.0	3600	9/100	<0.001
A3531		✓			1820	2420	360	10.0	10.0	10.0	3600	7/100	<0.001
A3N32		✓		3rd FL Apartments North	1822	2422	360	10.0	10.0	10.0	3600	14/100	0.002
A3N33		✓			1824	2424	360	10.0	10.0	10.0	3600	3/100	<0.001
A3N34		✓			1826	2426	360	10.0	10.0	10.0	3600	5/100	<0.001
A3N35		✓			1828	2428	360	10.0	10.0	10.0	3600	4/100	<0.001
A3N36		✓			1830	2430	360	10.0	10.0	10.0	3600	2/100	<0.001
A337		✓		3rd FL Halway	1832	2432	360	10.0	10.0	10.0	3600	2/100	<0.001
A338		✓		3rd FL. Stairway	1833	2433	360	10.0	10.0	10.0	3600	3/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By	19. Received By:	20. Date:	21. Time:
I S. Etanyobere	A. Elbert	10/09/02	7:00 am
II R. Acosta	JE	10/9/02	13:00
III			

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s _____

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A. Elbert	10/09/02	11:00 am
b. QC By:		
c. Lab Batch #: 101534		

28. Comments:

25. Microscope Make/Serial #: Olympus
☑ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8950

Page 7

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client	2. Project Name	3. Project #	4. Project Monitor	4c. Rotameter Number
DEP	DEP Clean-up	22906-0002	S. Etanyobere	HP-22
	2a. Project Address: 125 Cedar St NY NY	3a. Task # 00002	4a. Air Sampler: Ruben Acosta	

5. Date	6. Abatement Location	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type	
10/08/02	2nd FL Apartments	Cassette/Filter Manufacture: Mathmetics; Lot #: 108	Cassette/Filter Manufacture: ____; Lot #: ____	a. ☐ Background; b. ☐ Pre-Abate; c. ☐ Abatement; d. ☐ Post-Abate; e. ☐ OSHA; f. ☐ Environmental; g. ☐ Ambient; h. ☑ Other Clean	

DAILY AIR SAMPLE RECORD

10. Sample ID Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
A51				Field Blank								0/100	
A52				Field Blank								0/100	
A2539		✓		2nd FL Apartments South	1840	2440	360	10.0	10.0	10.0	3600	12/100	0.002
A2540		✓			1842	2442	360	10.0	10.0	10.0	3600	10/100	0.001
A2541		✓			1844	2444	360	10.0	10.0	10.0	3600	4/100	<0.001
A2542		✓			1846	2446	360	10.0	10.0	10.0	3600	8/100	<0.001
A2543		✓			1848	2448	360	10.0	10.0	10.0	3600	7/100	<0.001
A2N44		✓		2nd FL Apartments North	1850	2450	360	10.0	10.0	10.0	3600	9/100	<0.001
A2N45		✓			1852	2452	360	10.0	10.0	10.0	3600	8/100	<0.001
A2N46		✓			1854	2454	360	10.0	10.0	10.0	3600	9/100	<0.001
A2N47		✓			1856	2456	360	10.0	10.0	10.0	3600	12/100	0.002
A2N48		✓			1858	2458	360	10.0	10.0	10.0	3600	7/100	<0.001
A2-49		✓		2nd FL Halway	1900	0100	360	10.0	10.0	10.0	3600	3/100	<0.001
A1-50		✓		1st FL Halway	1902	0102	360	10.0	10.0	10.0	3600	6/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By	19. Received By	20. Date	21. Time
I. S. Etanyobere	A. Elbert	10/09/02	7:00 am
II. [illegible]	[illegible]	10/9/02	13:00
III.			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name	23. Date	24. Time
PCM Lab		
a. Analyzed By: A. Elbert	10.09.02	11:00 am
b. QC By:		
c. Lab Batch #: 101534		

25. Microscope Make/Serial #: Olympus [illegible]
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: R. Sallemi

27. Result To: R. Sallemi
Beeper/Phone #'s: ____

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY 1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 18, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8992:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 10/16/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/16/02 8:00:00 AM
ATC Group #: 8992
Analysis Date: 10/18/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 8992 -1	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
05 8992 -2	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
06 8992 -3	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
07 8992 -4	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
08 8992 -5	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
09 8992 -6	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	
10 8992 -7	1440.00	0.0562	0	None Detected	0	0	0.0048	<17.79	<0.0048	

ROMAN PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000130027

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8992 7/10 4142-4151

PROJECT INFORMATION

1. Client: DEP	2. Project Name: DEP. Clean-up	3. Project #: 15-22906.0002	4. Project Monitor:	4c. Rotameter Number: HP 22
	2a. Project Address: 125 Cedar St. NY	3a. Task #: 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
10.15.02	Around building	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture MMF Lot # 916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			✓	Hall	06:30	12:30	360	4	4	4	1440		
05			✓	In front of building	06:32	12:32	360	4	4	4	1440		
06			✓	— " —	06:34	12:34	360	4	4	4	1440		
07			✓	Restaurant Clean room of dec	06:37	12:37	360	4	4	4	1440		
08			✓	In back of building	06:50	12:50	360	4	4	4	1440		
09			✓	— " —	06:52	12:52	360	4	4	4	1440		
10			✓	— " —	06:54	12:54	360	4	4	4	1440		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		10.	
II	JD	10/16/02	8am
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	10/18/02	10:15
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: B Sallemi

27. Result To: B Sallemi
Beeper/Phone #'s _____

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th
New York, New York
www.atc-envir
212.353
Fax 212.353

October 16, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 8980:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Around Building
Samples received: 10/14/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc.

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Received: 10/14/02 4:00:00 PM

ATC Group #: 8980

Analysis Date: 10/16/02

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5μ-5	# Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
04 *8980 -1*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
05 *8980 -2*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
06 *8980 -3*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
07 *8980 -4*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
08 *8980 -5*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
09 *8980 -6*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	
10 *8980 -7*	1800.00	0.0450	0	None Detected	0	0	0.0048	<22.24	<0.0048	

MICHAEL A. GORYCKI, Ph.D.

Approved by:

ROMAN PEYSAKHOV

Analyzed by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only respon for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000130030

Page 1 of 1

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

8980 7/10 4033-0042

PROJECT INFORMATION

1. Client: DEP
2. Project Name: DEP Clean-up
2a. Project Address: 125 Cedar St. NY
3. Project #:
3a. Task #: 00002
4. Project Monitor:
4a. Air Sampler: E. Lemanovich
4c. Rotameter Number: HP-22
5. Date: 10.14.02
6. Abatement Location: Around building
7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # _____
8. ☑ TEM (0.45 micron MCE) Cassette/Filter Manufacture MMI Lot # 916
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02, 03				Field Blank									
04			✓	Hall	06:30	14:00	450	4	4	4	1800		
05			✓	In front of building	06:32	14:02	450	4	4	4	1800		
06			✓	— " —	06:34	14:04	450	4	4	4	1800		
07			✓	Restaurant Clean room of decon	06:37	14:07	450	4	4	4	1800		
08			✓	In back of building	06:50	14:20	450	4	4	4	1800		
09			✓	— " —	06:52	14:22	450	4	4	4	1800		
10			✓	— " —	06:54	14:24	450	4	4	4	1800		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich		10.14.02	
II	JD	10/14/02	16:00
III			

26. ATC Project Manager:
27. Result To: B Sallemi

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRWY	10/16/02	16:00
b. QC By:		
c. Lab Batch #:		

28. Comments:

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

NYC-WTC_00013003 2

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☑ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean - up	15-22906.0002		HP 22
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.16.02	Shaft of elevator	Cassette/Filter Manufacture _____ Lot # 31344102	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03		✓		Top of shaft elevator	09:00	15:10	370	10	10	10	3700		
04		✓		— " —	09:09	15:11	369	10	10	10	3690		
05		✓		6Floor Shaft of elevator	09:07	15:15	368	10	10	10	3680		
06		✓		Basement. Shaft of elevator	09:15	15:20	365	10	10	10	3650		
07		✓		— " —	09:16	15:21	365	10	10	10	3650		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		10.16.02	21.40
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #: 101632		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
B Sallemi	B Sallemi	
	Beeper/Phone #'s _____	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_00013003

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22906.0002		HP 22
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.16.02	Apartment #5 South	Cassette/Filter Manufacture _____ Lot # 01344108	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank									
02				Field Blank									
03		V		PII Apartment PII	14:00	20:05	365	10	10	10	3650		
04		V		— " —	14:01	20:06	365	10	10	10	3650		
05		V		— " —	14:02	20:07	365	10	10	10	3650		
06		V		— " —	14:03	20:08	365	10	10	10	3650		
07		V		— " —	14:04	20:09	365	10	10	10	3650		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		10.16.02	21.40
II			
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #: 101631		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallemi

27. Result To: B Sallemi
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000130034

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☑ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-229C6-0004		HP 22
	2a. Project Address: 125 Cedar St NY	3a. Task #: 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.15.02	Basement	Cassette/Filter Manufacture _____ Lot # 01344108	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03		✓		Boiler room	14:00	20:10	370	10	10	10	3700	2/100	<0.001
04		✓		Storage room #1	14:03	20:12	369	10	10	10	3690	3/100	<0.001
05		✓		Hallway	14:06	20:14	368	10	10	10	3680	6/100	<0.001
06		✓		Storage room #2	14:09	20:16	367	10	10	10	3670	4/100	<0.001
07		✓		Storage room #3	14:12	20:18	366	10	10	10	3660	5/100	<0.001
08		✓		Telephone room	14:15	20:20	365	10	10	10	3650	9/100	<0.001
09		✓		— " —	14:17	20:21	364	10	10	10	3640	6/100	<0.001
10		✓		— " —	14:19	20:22	363	10	10	10	3630	7/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich	[signature]	10.15.02	~~21.25~~
II			21.25
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: ATC	23. Date:	24. Time:
a. Analyzed By: [signature]	10/15/02	22:30
b. QC By:		
c. Lab Batch #: 101607		

25. Microscope Make/Serial #: OLYMPUS CH2 1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/16/02 10:20:00 PM
ATC Group #: 8996
Analysis Date: 10/17/02

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 *8996 -1*	3700.00	0.1236	1	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 1 Structures
04 *8996 -2*	3690.00	0.1236	15	None Detected	0	0	0.0008	<8.09	<0.0008	Gypsum - 15 Structures
05 *8996 -3*	3680.00	0.1236	1	None Detected	0	0	0.0008	<8.09	<0.0008	Cellulose - 1 Structures
06 *8996 -4*	3650.00	0.1236	0	None Detected	0	0	0.0009	<8.09	<0.0009	
07 *8996 -5*	3650.00	0.1236	3	None Detected	0	0	0.0009	<8.09	<0.0009	Cellulose - 2 Structures, Gypsum - 1 Structures

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written aporoval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000130035