

ATC Associates

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Attn: Mr. Bernard Orlan

N.Y.C. Board of Education

28-11 Queens Plaza North

Long Island City, NY 11101

Fax: (212) 475-4122

Phone: (212) 477-8941

Received: 4/7/02

4:00:00 PM

ATC Group #: 7351

Analysis Date: 4/8/02

Project: H.S. of Economics & Finance, 100 Trinity Pl., NYC

**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		Analytical Sensitivity (S/cc)	Asbestos Concentration		Notes
					0.5µ-5 µ	5µ		(S/mm ²)	(S/cc)	
03 7351 -1	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
04 7351 -2	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
05 7351 -3	1936.00	0.0450	0	None Detected	0	0	0.0044	<22.24	<0.0044	
06 7351 -4	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
07 7351 -5	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
08 7351 -6	1928.00	0.0450	0	None Detected	0	0	0.0044	<22.24	<0.0044	
09 7351 -7	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	

MICHAEL GORYCKI

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 #101187-0, NY State ELAP #10879

Page 1 of 3

CONFIDENTIAL,

CITY_21MC100_003459947

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

Attn: Mr. Bernard Orlan
N.Y.C. Board of Education
28-11 Queens Plaza North
Long Island City, NY 11101

Received: 4/7/02 4:00:00 PM
ATC Group #: 7351
Analysis Date: 4/8/02

Fax: (212) 475-4122 Phone: (212) 477-8941
Project: H.S. of Economics & Finance, 100 Trinity Pl., NYC

**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)	Analytical		Sensitivity (S/cc)	Asbestos Concentration		Notes
					# Structures 0.5µ-5µ	5µ		(S/mm ²)	(S/cc)	
10 7351 -8	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
11 7351 -9	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
12 7351 -10	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
13 7351 -11	1928.00	0.0450	0	None Detected	0	0	0.0044	<22.24	<0.0044	
14 7351 -12	1928.00	0.0450	0	None Detected	0	0	0.0044	<22.24	<0.0044	
15 7351 -13	1928.00	0.0450	0	None Detected	0	0	0.0044	<22.24	<0.0044	
16 7351 -14	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
17 7351 -15	1928.00	0.0450	0	None Detected	0	0	0.0044	<22.24	<0.0044	
18 7351 -16	1928.00	0.0450	0	None Detected	0	0	0.0044	<22.24	<0.0044	

MICHAEL GORYCKI

Analyzed by:



MICHAEL A. GORYCKI, Ph.D.

Approved by:



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

Page 2 of 3

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CITY_21MC100_003459948

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

Attn: Mr. Bernard Orlan
N.Y.C. Board of Education
28-11 Queens Plaza North
Long Island City, NY 11101

Received: 4/7/02 4:00:00 PM
ATC Group #: 7351
Analysis Date: 4/8/02

Fax: (212) 475-4122 Phone: (212) 477-8941

Project: H.S. of Economics & Finance, 100 Trinity Pl., NYC

**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		Analytical Sensitivity (S/cc)	Asbestos Concentration		Notes
					0.5µ-5	5µ		(S/mm²)	(S/cc)	
19 7351 -17	1920.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
7351 -18	0.00	0.0450	0	None Detected	0	0	#Div/0!	<22.24	<#Div/0	#Div/0

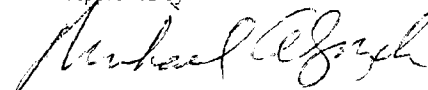
MICHAEL GORYCKI

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 PLW/TEM #101187-0, NY State ELAP #10879

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CITY_21MC100_003459949

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008



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: NYC - BOE		2. Project Name: HS. ECONOMICS + FINANCE		3. Project #: 83946-83966		4. Project Monitor: Kevin		4c. Rotameter Number: 50087	
		2a. Project Address: 100 TRINITY PLACE NY NY		14584-865		4a. Air Sampler: PH2PATRICK			
5. Date: 4-7-02		6. Abatement Location: ENTIRE SCHOOL VARIOUS LOCATIONS		7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # _____		8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture _____ Lot # 00265916		9. Type: a. ☐ Background d. ☐ Post-Abate b. ☐ Pre-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				OUTSIDE OF MAIN ENTRANCE OF SCHOOL SIDEWALK NORTH	7:01 AM	11:01 AM	240	8.0	8.0	8.0	1920		
04				OUTSIDE OF COAT ROOM 1 ST FLOOR LOBBY.	7:03 AM	11:03 AM	240	8.0	8.0	8.0	1920		
05				NORTH SIDE OF ROOF AREA	7:05 AM	11:04 AM	242	8.0	8.0	8.0	1936		
06				7 TH FLOOR STAIRWELL "B" SOUTH SIDE	7:08 AM	11:08 AM	240	8.0	8.0	8.0	1920		
07				SOUTH SIDE OF AUDITORIUM 1 ST FLOOR	7:10 AM	11:10 AM	240	8.0	8.0	8.0	1920		
08				EAST SIDE OF CAFETERIA 8 TH FLOOR	7:12 AM	11:13 AM	241	8.0	8.0	8.0	1928		

CHAIN OF CUSTODY

18. Relinquished By: I <i>Kevin Thibault</i>		19. Received By: II <i>[Signature]</i>		20. Date: 4.7.2	21. Time: 4PM
III					
26. ATC Project Manager: MARK TERPSEN		27. Result To: _____ Beeper/Phone #'s _____			

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

22. Lab Name: TEM		23. Date: 4-7-02	24. Time: 2400	25. Microscope Make/Serial #: ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079
a. Analyzed By: MAC				
b. QC By:				
c. Lab Batch #:				Analysis Methodology PCM - NIOSH 7400A TEM - AIHCRA
28. Comments:				

WHITE - File

YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY-1 (1/00)

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

CONFIDENTIAL,

CITY_21MC100_003459967



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

PROJECT INFORMATION

1. Client: NYC- BOE		2. Project Name: H.S. ECONOMIC ST FINANCE		3. Project #: 14584-865		4. Project Monitor: Kevin Fitzpatrick		4c. Rotameter Number: SD087	
		2a. Project Address: 100 TRINITY PLACE NY NY				4a. Air Sampler: FITZPATRICK			
5. Date: 4-7-02		6. Abatement Location: ENTIRE SCHOOL VARIOUS LOCATIONS		7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # _____		8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture _____ Lot # 00265916		9. Type: a. ☐ Background c. ☐ Abatement 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			
				Field Blank									
				Field Blank									
09				9 TH FLOOR HALLWAY OUTSIDE RM 904.	7:15 AM	11:15 AM	240	8.0	8.0	8.0	1920		
10				8 TH FLOOR CLASSROOM TEACHERS RM 801	7:17 AM	11:17 AM	240	8.0	8.0	8.0	1920		
11				7 TH FLOOR HALLWAY STAIRWELL "A" SOUTH	7:19 AM	11:19 AM	240	8.0	8.0	8.0	1920		
12				6 TH FLOOR CLASSROOM RM 608 NORTHSIDE	7:21 AM	11:21 AM	240	8.0	8.0	8.0	1920		
13				5 TH FLOOR HALLWAY NEXT TO RM 503.	7:24 AM	11:25 AM	241	8.0	8.0	8.0	1928		
14				4 TH FLOOR CLASSROOM NORTHSIDE 404	7:28 AM	11:29 AM	241	8.0	8.0	8.0	1928		

CHAIN OF CUSTODY

18. Relinquished By: I. [Signature]		19. Received By: MT		20. Date: 4.7.2	21. Time: 4:20
II					
III					
26. ATC Project Manager: MARK TERJESEN		27. Result To: Beeper/Phone #'s _____			

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

22. Lab Name: TEM		23. Date: 4-7-02		24. Time: 2:40		25. Microscope Make/Serial #: ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079 Analysis Methodology PCM - NIOSH 7400A <u>TEM - AHEHA</u>	
a. Analyzed By: MTB							
b. QC By:							
c. Lab Batch #:							
28. Comments:							

WHITE - File

YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY-1 (1/00)

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

CONFIDENTIAL,

CITY_21MC100_003459968



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 _____

OBJECT INFORMATION

Client: NYC - DOE 2. Project Name: HS ECONOMICST+FINANCE 3. Project #: 14584-865 4. Project Monitor: Keim Fitzpatrick 4c. Rotameter Number: SD087

2a. Project Address: 100 TRINITY PLACE NY NY 5. Type: ☒ TEM (0.45 micron MCE) c. ☐ Abatement f. ☐ Environmental

Date: 7-02 6. Abatement Location: ENTIRE SCHOOL 7. ☐ PCM (0.8 micron MCE) 8. ☒ TEM (0.45 micron MCE) 9. Type: a. ☐ Background d. ☐ Post-Abate g. ☒ Ambient

VARIOUS LOCATIONS 10. Cassette/Filter Manufacture: _____ 11. Lot #: 002-65916 12. Lot #: _____ 13. b. ☐ Pre-Abate e. ☐ OSHA h. ☐ Other

DAILY AIR SAMPLE RECORD

REF AIN SAMPLE RECORD													
Sample I.D. Number	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			
				Field Blank									
				Field Blank									
15				3 RD FLOOR Hallway OUTSIDE of CLASSROOM 303	7:30 AM	11:31 AM	2411	8.0	8.0	8.0	1928		
16				OUTSIDE of main ENTRANCE SIDEWALK.	11:33 AM	3:33 PM	2410	8.0	8.0	8.0	1920		
17				OUTSIDE of COAT ROOM 1 ST FLOOR.	11:35 AM	3:36 PM	2411	8.0	8.0	8.0	1928		
18				7 TH FLOOR STAIRWELL B SOUTH SIDE	11:37 AM	3:38 PM	2411	8.0	8.0	8.0	1928		
19				NORTH SIDE of PCF AREA.	11:39 AM	3:39 PM	2410	8.0	8.0	8.0	1920		
20				Green BLANK.									

CHAIN OF CUSTODY

Relinquished By: Keim Fitzpatrick 19. Received By: ALB 20. Date: 7-02-08 21. Time: 8 PM

ATC Project Manager: MARK TERPSEN 27. Result To: _____ 28. Comments: _____

Beeper/Phone #'s: _____

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

22. Lab Name: TEM 23. Date: 7-02 24. Time: 2400

a. Analyzed By: ALB 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

WHITE - File

YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY-1 (1/00)

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

CONFIDENTIAL,

CITY_21MC100_003459969