NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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

preliminary data

October 3, 2001

Mr. Bernard P. Orlan
New York City Board of Education
28-11 Queens Plaza North
Long Island City, NY 11101

Re: Dust, bulk and ambient area air sampling for asbestos at P.S. 234M

Dear Mr. Orlan:

At your request, ATC Associates, Inc. representatives Mr. Andreas C. Andreou (NYC-DEP asbestos investigator #82683 & NYS-DOL asbestos inspector / air sampling technician certificate #AH 93-18603), Mr. Yiannis Efstathiou (NYC-DEP asbestos investigator #82244 & NYS-DOL asbestos inspector / air sampling technician certificate #AH 96-10905) and Mr. Wagdi Abdelshahid (NYS-DOL asbestos inspector certificate #AH01-02278) visited P.S. 234M located at 292 Greenwich Street, New York, NY 10013 on October 2nd, 2001. The purpose of the site visit was to perform a dust and ambient area air sampling to be analyzed for asbestos content throughout the interior of the school building and bulk sampling of debris on the roof as per a NYC-BOE representative.

As per NYC-BOE representative request, a total of fifty (50) dust samples, using 3M scotch tape and a glass slide, and twenty (20) ambient area air samples were collected throughout the school building. Also, three (3) debris bulk samples were collected from the roof.

Also as per the NYC-BOE representative request, all twenty (20) ambient area air samples were analyzed utilizing Transmission Electron Microscopy (TEM). Analytical results indicated that none of the collected ambient area air samples contain any asbestos structures. See attached laboratory report and results.

All fifty (50) collected dust samples and the three (3) bulk samples were analyzed utilizing Polarized Light Microscopy (PLM).

Analytical results indicated that none of the collected dust samples contain any asbestos fibers.

Analytical results also shown that two (2) out of the three (3) debris bulk samples collected from the roof contain only traces of asbestos.

The dust, bulk and ambient area air sampling performed was limited to testing for asbestos in the locations indicated by a NYC-BOE representative.

NYC-WTC_000419745

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Attached please find the following:

- Dust sample chain of custody form and laboratory results
- Ambient area air monitoring chain of custody and laboratory report & results
- Bulk sample chain of custody and laboratory results
- Laboratory and personnel certificates

If you have any questions or require additional information regarding this limited asbestos dust sampling, please do not hesitate to contact me at (212) 353-8280 extension #261.

Sincerely,

Andreas C. Andreou
Senior Project Manager

NYC-WTC_000419746

Page 1 of 5

ATC ASSOCIATES INC.

BATCH NO. 19568

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: NYC - BOE	2. Project Nam: DUST SAMPLING	3. Project # 14584-0742	4. Project Manager: ANDREAS ANDREOU
	2a. Project Address: 292 Greenwich street, New York, NY 10013		4a. Investigator: A. Andreou / Y. Efstathiou
5. Date: 10/2/01	6. Building Name: PS234M	8. Turnaround Time: ☐ STAT ☐ 24 HRS ☐ 72 HRS ☒ OTHER ☐ 6 HRS ☐ 48 HOURS ☐ NORMAL RUSH	9. Comments (Field): ANALYZED ALL SAMPLES
	7. Sampling Areas: Entire		10. Time in / Time out:

H.A.#	SAMPLE NUMBER	MATERIAL DESCRIPTION	LOCATION		FLOOR No.	RESULTS
	PS234M-10/2 -01	DUST SAMPLE	FROM WINDOW SASH IN ROOM #101		1st	NONE DETECTED
	-02	DUST SAMPLE	FROM DESK IN ROOM #101D			
	-03	DUST SAMPLE	FROM WINDOW SILL IN ROOM #101C			
	-04	DUST SAMPLE	FROM THE FLOOR OF THE MAIN ENTRANCE VESTIBULE			
	-05	DUST SAMPLE	FROM THE HALLWAY FLOOR OF ROOM #104			
	-06	DUST SAMPLE	FROM THE S.E WINDOW SASH IN LUNCHROOM #103			
	-07	DUST SAMPLE	FROM THE FLOOR IN THE SW CORNER OF LUNCHROOM			
	-08	DUST SAMPLE	FROM A TABLE IN THE HALLWAY BY THE ELEVATOR			
	-09	DUST SAMPLE	FROM THE FLOOR OF THE GYMNASIUM BY THE MIDDLE OF NORTH SIDE			
	-10	DUST SAMPLE	FROM THE FLOOR OF BOY'S TOILET #107			

CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time	23. Method of Submittal	
[signature]	10/2		[signature]	10/2/01	2:30p	FIELD	
						WALK IN	
						US MAIL	
						FED-X	
						OTHER	

LAB INFORMATION

24. Name and Signature:	25. Date	26. Time	27. Comments (Lab)
4a. Analyzed By: Yelena Reyzarkov	10/2/01	[signature]	50 PLM
4b. Analyzed By:			
4c. QC By:			

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Form NY-13

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4TC ASSOCIATES INC.

BATCH NO. 19568

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

Client: NYC - BOE	2. Project Nam: DUST SAMPLING	3. Project # 14584-0742	4. Project Manager: ANDREAS ANDREOU
	2a. Project Address: 292 Greenwich street, New York, NY 10013		4a. Investigator: A. Andreou / Y. Efstathiou

Date: 10/2/01	6. Building Name: PS234M 7. Sampling Areas: Entire	8. Turnaround Time: ☐ STAT ☐ 24 HRS ☐ 72 HRS ☒ OTHER ☐ 6 HRS ☐ 48 HOURS ☐ NORMAL RUSH	9. Comments (Field): ANALYZED ALL SAMPLES 10. Time in / Time out:

H.A.#	SAMPLE NUMBER	MATERIAL DESCRIPTION	LOCATION		FLOOR No.	RESULTS
	PS234M-10/2-11	DUST SAMPLE	FROM THE FLOOR OF THE HALLWAY BY EXIT #1		1st	NONE DETECTED
	-12	DUST SAMPLE	FROM THE KITCHEN #109, ON TOP OF THE SINK			
	-13	DUST SAMPLE	FROM EXIT #4, OUTSIDE ROOM #113 FROM FLOOR			
	-14	DUST SAMPLE	FROM HALLWAY FLOOR OUTSIDE ROOM #116			
	-15	DUST SAMPLE	FROM WINDOW SILL @ NESIDE IN ROOM #116			
	-16	DUST SAMPLE	FROM THE WINDOW SILL OF A WINDOW @ THE NORTH SIDE IN ROOM #122			
	-17	DUST SAMPLE	FROM THE HALLWAY FLOOR OUTSIDE ROOM # B-19		BASEMENT	
	-18	DUST SAMPLE	FROM THE FLOOR OF ROOM # B-15			
	-19	DUST SAMPLE	FROM THE HALLWAY FLOOR OUTSIDE ROOM # B-7			
	-20	DUST SAMPLE	FROM THE FLOOR OF TELEPHONE ROOM # B-11			

CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time	23. Method of Submittal	
Andreou	10/2			10/2/01	7:30 pm	FIELD	
						WALK IN	
						US MAIL	
						FED-X	
						OTHER	

LAB INFORMATION

24. Name and Signature	25. Date	26. Time	27. Comments (Lab):
24a. Analyzed By: Helena Reyzarka	10/2/01	pm	
24b. Analyzed By:			
24c. QC By:			

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Form NY-13

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NYC-WTC_000419748

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ATC ASSOCIATES INC.

BATCH NO. 19568

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

Client: NYC - BOE	2. Project Nam: DUST SAMPLING	3. Project # 14584-0742	4. Project Manager: ANDREAS ANDREOU
	2a. Project Address: 292 Greenwich street, New York, NY 10013		4a. Investigator: A. Andreou / Y. Efstathiou
Date: 0/2/01	6. Building Name: PS234M	8. Turnaround Time: ☐ STAT ☐ 24 HRS ☐ 72 HRS ☒ OTHER ☐ 6 HRS ☐ 48 HOURS ☐ NORMAL RUSH	9. Comments (Field): ANALYZED ALL SAMPLES
	7. Sampling Areas: Entire		10. Time in / Time out:

H.A.#	SAMPLE NUMBER	MATERIAL DESCRIPTION	LOCATION		FLOOR No.	RESULTS
	PS234M-10/2-21	DUST SAMPLE	FROM THE WINDOW SILL OF ROOM #202		2nd	NONE DETECTED
	-22	DUST SAMPLE	FROM THE SILL @ SE SIDE IN LIBRARY #201			
	-23	DUST SAMPLE	FROM WINDOW SILL @ NE SIDE IN AUDITORIUM #206			
	-24	DUST SAMPLE	FROM A TABLE BY MIDDLE OF SOUTH SIDE OF ROOM #211			
	-25	DUST SAMPLE	FROM THE WINDOW SILL OF THE MIDDLE WINDOW IN ROOM #219			
	-26	DUST SAMPLE	FROM THE HALLWAY FLOOR OUTSIDE ROOM #223			
	-27	DUST SAMPLE	FROM A TABLE IN ASSISTANT PRINCIPAL'S OFFICE #210			
	-28	DUST SAMPLE	FROM THE FLOOR OF ROOM #225, SOUTH SIDE			
	-29	DUST SAMPLE	FROM TOP OF RADIATOR IN ROOM #229 MIDDLE OF SOUTH SIDE			
	-30	DUST SAMPLE	FROM THE FLOOR OF ROOM #216 MIDDLE OF EAST SIDE			

CHAIN OF CUSTODY

17 Relinquished By:	18 Date	19 Time	20 Received By	21 Date	22 Time	23 Method of Submittal	
[signature]	10/2		[signature]	10/02/01	2:30pm	FIELD	
						WALK IN	
						US MAIL	
						FED-X	
						OTHER	

LAB INFORMATION

24 Name and Signature	25 Date	26 Time	27 Comments (Lab)
24a Analyzed By [signature]	10/2/01	[signature]	
24b Analyzed By			
24c QC By			

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ATC ASSOCIATES INC.

BATCH NO. 19568

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

Client: NYC - BOE	2. Project Nam: DUST SAMPLING	3. Project # 14584-0742	4. Project Manager: ANDREAS ANDREOU
	2a. Project Address: 292 Greenwich street, New York, NY 10013		4a. Investigator: A. Andreou / Y. Efstathiou
Date: 10/2/01	6. Building Name: PS234M	8. Turnaround Time: ☐ STAT ☐ 24 HRS ☐ 72 HRS ☒ OTHER ☐ 6 HRS ☐ 48 HOURS ☐ NORMAL RUSH	9. Comments (Field): ANALYZED ALL SAMPLES
	7. Sampling Areas: Entire		10. Time in / Time out:

H.A.#	SAMPLE NUMBER	MATERIAL DESCRIPTION	LOCATION		FLOOR No.	RESULTS
	PS234M-10/2-31	DUST SAMPLE	FROM WINDOW SILL IN ROOM #218 MIDDLE OF EAST SIDE		2nd	NONE DETECTED
	-32	DUST SAMPLE	FROM A TABLE IN THE HALLWAY OUTSIDE ROOM #220		↓	↓
	-33	DUST SAMPLE	FROM A WINDOW SILL. @ NORTH EAST SIDE IN ROOM #222		↓	↓
	-34	DUST SAMPLE	FROM WINDOW SILL IN ROOM #302		3rd	↓
	-35	DUST SAMPLE	FROM THE FLOOR OF ROOM #301C		↓	↓
	-36	DUST SAMPLE	FROM THE FLOOR OF ROOM #304 MIDDLE OF NORTH SIDE		↓	↓
	-37	DUST SAMPLE	FROM THE WINDOW SILL IN ROOM #311 MIDDLE OF SOUTH SIDE		↓	↓
	-38	DUST SAMPLE	FROM A TABLE IN ROOM #315. MIDDLE OF SOUTH SIDE		↓	↓
	-39	DUST SAMPLE	FROM WINDOW SILL @ SE SIDE IN ROOM #323		↓	↓
	-40	DUST SAMPLE	FROM THE FLOOR OF HALLWAY BY EXIT/STAIRCASE #1		↓	↓

CHAIN OF CUSTODY

Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time	23. Method of Submittal	
A. Andreou	10/2			10/2/01	2:30 pm	FIELD	
						WALK IN	
						US MAIL	
						FED-X	
						OTHER	

LAB INFORMATION

Name and Signature	25. Date	26. Time	27. Comments (Lab):
1. Analyzed By: E. A. Chatzeri	10/2/01	pm	
2. Analyzed By			
3. QC By			

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NYC-WTC_000419750

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ITC ASSOCIATES INC.

BATCH NO. 19568

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

ROJECT INFORMATION

Client: NYC - BOE	2. Project Nam: DUST SAMPLING	3. Project # 14584-0742	4. Project Manager: ANDREAS ANDREOU
	2a. Project Address: 292 Greenwich street, New York, NY 10013		4a. Investigator: A. Andreou / Y. Efstathiou
Date: 0/2/01	6. Building Name: PS234M	8. Turnaround Time: ☐ STAT ☐ 24 HRS ☐ 72 HRS ☒ OTHER ☐ 6 HRS ☐ 48 HOURS ☐ NORMAL RUSH	9. Comments (Field): ANALYZED ALL SAMPLES
	7. Sampling Areas: Entire		10. Time in / Time out:

H.A.#	SAMPLE NUMBER	MATERIAL DESCRIPTION	LOCATION		FLOOR No.	RESULTS
	PS234M-10/2-41	DUST SAMPLE	FROM THE FLOOR OF ROOM # 329 MIDDLE OF SOUTH SIDE		3rd	NONE DETECTED
	-42	DUST SAMPLE	FROM WINDOW SILL IN ROOM # 316/ SE SIDE WINDOW			
	-43	DUST SAMPLE	FROM THE FLOOR OF ROOM # 318, NE SIDE			
	-44	DUST SAMPLE	FROM A BOOKCASE IN ROOM # 320 NORTH SIDE			
	-45	DUST SAMPLE	FROM WINDOW SILL @ NE SIDE IN ROOM # 322			
	-46	DUST SAMPLE	FROM INSIDE AH-4 BY LOUVER		ROOF	
	-47	DUST SAMPLE	FROM INSIDE AH-1, FROM THE FLOOR			
	-48	DUST SAMPLE	FROM INSIDE AH-2, FROM THE FLOOR			
	-49	DUST SAMPLE	FROM THE FLOOR INSIDE AH-5			
	-50	DUST SAMPLE	FROM A LOUVER @ NORTHEAST SIDE OF FAN ROOM			

HAIN OF CUSTODY

Relinquished By	18 Date	19 Time	20 Received By	21 Date	22 Time	23 Method of Submittal	
[signature]	10/2		[signature]	10/02/01	2:50pm	FIELD	
						WALK IN	
						US MAIL	
						FED-X	
						OTHER	

AB INFORMATION

	25 Date	26 Time	27 Comments (Lab)
Name and Signature			
3a. Analyzed By: E. A. Cuarteros	10/2/01	[signature]	
3b. Analyzed By:			
4c. QC By:			

Filename: P:\USERS\DATA\WP96\WP\FORMS\NY-13.XLS

Form NY-13

CITY_21MC100_003208724

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ATC ENVIRONMENTAL, INC.
104 East 25th Street
New York, NY 10010

APPROVED NY STATE DOH ELAP # 10879
ACCREDITED NVLAP Lab Code # 1187

Summary of TEM Results

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

DATE: 10/02/01

Project/Site Identification: P.S. 234M, 292 Greenwich St., NY, NY
Entire School

CONCLUSION:

STATISTICAL SUMMARY

1) Inside Samples

TEM#	Project #	Volume(l)	Asbestos Concentration S/mm^2	S/cc	nqm/m^3
		Average=	N/A	N/A	N/A

2) Outside Samples

TEM#	Project #	Volume(l)	Asbestos Concentration S/mm^2	S/cc	nqm/m^3
5592- 59895	PS234M-ES-10/2-01	1820	0.0	0.0047 *	
5592- 59896	PS234M-ES-10/2-02	1820	0.0	0.0047 *	
5592- 59897	PS234M-ES-10/2-03	1820	0.0	0.0047 *	
5592- 59898	PS234M-ES-10/2-04	1810	0.0	0.0047 *	
5592- 59899	PS234M-ES-10/2-05	1810	0.0	0.0047 *	
5592- 59900	PS234M-ES-10/2-06	1810	0.0	0.0047 *	
5592- 59901	PS234M-ES-10/2-07	1820	0.0	0.0047 *	
5592- 59902	PS234M-ES-10/2-08	1820	0.0	0.0047 *	
5592- 59903	PS234M-ES-10/2-09	1820	0.0	0.0047 *	
5592- 59904	PS234M-ES-10/2-10	1820	0.0	0.0047 *	
5592- 59905	PS234M-ES-10/2-11	1820	0.0	0.0047 *	
5592- 59906	PS234M-ES-10/2-12	1820	0.0	0.0047 *	
5592- 59907	PS234M-ES-10/2-13	1820	0.0	0.0047 *	
5592- 59908	PS234M-ES-10/2-14	1830	0.0	0.0047 *	
5592- 59909	PS234M-ES-10/2-15	1820	0.0	0.0047 *	
5592- 59910	PS234M-ES-10/2-16	1820	0.0	0.0047 *	
5592- 59911	PS234M-ES-10/2-17	1810	0.0	0.0047 *	
5592- 59912	PS234M-ES-10/2-18	1810	0.0	0.0047 *	
5592- 59913	PS234M-ES-10/2-19	1820	0.0	0.0047 *	
5592- 59914	PS234M-ES-10/2-20	1820	0.0	0.0047 *	
		Average=	0.0	0.0047	0

AMBIENT AIR

3) Blanks

TEM#	Project #	Asbestos Concentration S/mm^2	S/cc	nqm/m^3
5592- 59915	PS234M-ES-10/2-21	- - - - - - - - -	Not Analyzed - - - - - - - - -	
5592- 59916	PS234M-ES-10/2-22	- - - - - - - - -	Not Analyzed - - - - - - - - -	
5592- 59917	PS234M-ES-10/2-23	- - - - - - - - -	Not Analyzed - - - - - - - - -	
	Average=	N/A	N/A	N/A

4) Value of T - Statistic : N/A

* None detected; concentration equivalent to analytical sensitivity assigned.

This test report relates only to the specific items cited in the analysis.
The analysis was carried out according to the approved TEM method. The laboratory is in compliance with the quality specified for the method.

This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

RP

NYC-WTC_000419752

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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BATCH NO. 19567

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client:	2. Project Name: BULK SAMPLING	3. Project No:	4. Project Manager: A. Andrean
NYC-BoE	2a. Project Address: 292 Greenwich street, NY, NY	K1584-0789	4a. Investigator: A. Andrean / H. Epstein

5. Date:	6. Building Name: PS 234M	8. Turnaround Time:	9. Comments (Field)
10/2/01	7. Sampling Areas: ROOF	☐ STAT ☐ 24 HRS ☐ 72 HRS ☒ OTHER ☒ RUSH ☐ 6 HRS ☐ 48 HRS ☐ NORMAL	Analyze then call

BULK SAMPLE LOCATION

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location: Floor	14. Sample Location: Sample Coordinates	15. Material Total Quantity (LF, SF, PCS)	16. Asbestos Content (Type & %)
1	PS234-BULK 10/2-01	DEBRIS		ROOF	SOUTH EAST SIDE OF ROOF		ND
1	-02	〃		↓	FROM TOP OF STORAGE SHED @ EAST SIDE		TR CHR
1	-03	〃		↓	EAST SIDE OF ROOF BY ENTRANCE TO ROOF		TR CHR

CHAIN OF CUSTODY

17. Relinquished By:	18. Date:	19. Time:	20. Received By:	21. Date:	22. Time:
I A. Andrean	10/2			10/2/01	2pm
II					
III					

23. Method of Submittal	
FIELD	
WALK IN	
US MAIL	
FED EX	
OTHER	

LAB INFORMATION

24. Name and Signature	25. Date:	26. Time:
24a. Analyzed By:	10/2/01	3pm
24b. Analyzed By:		
24c. QC By:		

27. Comments (Lab): 3 pm

NY-13 (3/99)