



February 7, 2002

Mr. Bernard P. Orlan
Director, Environmental Health & Safety
New York City Board of Education
28-11 Queens Plaza North
Long Island City, NY 11101-4008

Re: Summary of wipe and air sampling for asbestos, respirable particulates concentrations, Mercury, PCBs, Silica, Fiberglass, Hydrocarbons, Dioxins, Metals, and cyanide @ P.S. / I.S. 89M

Dear Mr. Orlan:

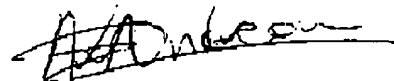
At your request, ATC Associates Inc. (ATC) is pleased to provide you with the summary of results for the wipe and air sampling performed at P.S. / I.S. 89 M. All the results were tabulated in the attached tables.

It is our pleasure to provide these wipe/air sampling services to the New York City Board of Education. If you have any questions about this report, please call (212) 353-8280, extension 261 or 298.

Sincerely,
ATC ASSOCIATES INC.


Arnel Jayal
Project Manager

Reviewed by:


Andreas C. Andreou
Senior Regional Manager

P.S. / I.S. 89M - AMBIENT AREA AIR TEM, SETTLED DUST & BULK SAMPLE RESULTS					
TEM Ambient Air Sampling (Structure / mm ²)			Settled Dust Bulk sampling for Asbestos		Bulk and Magic scotch tape sampling for asbestos (Playground and soil areas)
Date	# of Sample	Results of TEM Asbestos Analysis (structure/mm ²)	# of Sample	Results of Settled Dust Bulk Sample for Asbestos	
11/02/01			39	Trace or Non Detected	33 Bulk Samples = Trace or Non Detected 29 Scotch Magic Tape Samples = Trace or Non Detected
			6	>1% Asbestos (settled dust in soil found outside the building)	
11/05/01	23	One structure (22.24 Structure/mm ²) was found in each of the following locations: Room 502, room 402, 1 st Floor corridor, and corridor adj. to room 143.			
12/11/01			6	2 samples = Trace amount of Asbestos 4 Samples = No Asbestos Fibers found	
01/11/02					11 bulk samples = Non Detected 5 Scotch Magic Tape Sample = Non Detected
01/12/02	4	No Structures Detected			
01/16/02	12	One structure (22.24 Structure/mm ²) found in one sample in the north playground and another structure (22.24 structure/mm ²) found on the 3 rd floor hallway southside.			
01/17/02	12	No Structures Detected			
01/18/02	12	No Structures Detected			
01/19/02	6	No Structures Detected			
01/21/02	11	No Structures Detected			
01/22/02	16	No Structures Detected			
01/24/02	13	No Structures Detected			
01/25/02	16	One structure (22.24 Structure/mm ²) found in one sample in the cafet.			
01/26/02	16	No Structures Detected			
01/27/02	16	One structure (22.24 Structure/mm ²) found in one sample on the roof.			
01/28/02	16	No Structures Detected			
01/29/02	16	No Structures Detected			
01/30/02	16	No Structures Detected			
01/31/02	16	No Structures Detected			
02/01/02	16	No Structures Detected			
02/02/02	15	No Structures Detected			
02/03/02	16	No Structures Detected			
2/04/02	16	No Structures Detected			
2/05/02	16	No Structures Detected			
2/06/02	16	No Structures Detected			

PS/IS 89 M - RESPIRABLE PARTICULATES CONCENTRATIONS								
Date	Type of sampling	No. of readings	Number of indoor readings >40 to <65 µg/m³ (24 hrs average)	Number of indoor readings >65 µg/m³ (24 hrs average)	Range of indoor respirable particulates concentration (µg/m³)	Average indoor respirable particulates concentration (µg/m³)	Range of outdoor respirable particulates concentration (µg/m³)	Average outdoor respirable particulates concentration (µg/m³)
12/15-16/02	24-hour monitoring	24	0	0	10 - 34	20	7 - 40	15
1/11-12/02	24-hour monitoring using Dust-Trak & Gravimetric samplers	4			12 and 16 using Dust Trak <6.94 and 9.03 MEM			
1/11/02	Direct Readings	61	0	0	6 - 18	9	36	
1/15/02	Direct Readings	10	3	0	30 - 60	46	80 - 82	80
1/16/02	Direct Readings	30	0	0	4 - 11	8	10 - 13	11
1/17/02	Direct Readings	50	2	0	39 - 44	21	41 - 46	43
1/18/02	Direct Readings	50	0	0	18 - 32	24	35 and 36	
1/21/02	Direct Readings	61	17	0	29 - 61	40	70 and 71	
1/22/02	Direct Readings	73	0	0	8 - 38	20	19 - 61	39
1/23/02	Direct Readings	80	0	0	8 - 17	11	12 - 20	16
1/24/02	Direct Readings	80	44	0	21 - 63	42	54 - 83	66
1/25/02	Direct Readings	80	0	0	6 - 28	13	9 - 30	18
1/25-26/02	24-hour monitoring using Dust-Trak & Gravimetric samplers	4			12 and 18 using Dust Trak 5.4 and 10 MEM			
1/28/02	Direct Readings	93	28	1	21 - 85	42	30 - 106	91 (AM) 28 (PM)
1/29/02	Direct Readings	86	20	0	25 - 49	38	38 - 91	83 (AM) 45 (PM)
1/30/02	Direct Readings	82	28	0	30 - 60 (AM) 7 - 17 (PM)	44 (AM) 12 (PM)	63 - 90 (AM) 18 - 35 (PM)	73 (AM) 25 (PM)
1/30-31/02	24-hour monitoring using Gravimetric sampler	1			11.8 using a gravimetric sampler			

PS/IS 89 M - RESPIRABLE PARTICULATES CONCENTRATIONS								
Date	Type of sampling	No. of readings	Number of indoor readings >40 (in <65 µg/m ³ (24 hrs average)	Number of indoor readings >65 µg/m ³ (24 hrs average)	Range of indoor respirable particulates concentration (µg/m ³)	Average indoor respirable particulates concentration (µg/m ³)	Range of outdoor respirable particulates concentration (µg/m ³)	Average outdoor respirable particulates concentration (µg/m ³)
1/31/02	Direct Readings	82	0	0	13 - 23 (AM) 16 - 29 (PM)	18 (AM) 21 (PM)	23 - 39 (AM) 35 - 42 (PM)	29 (AM) 38 (PM)
2/01/02	Direct Readings	82	19	0	12 - 29 (AM) 46 - 59 (PM)	23 (AM) 49 (PM)	39 - 45 (AM) 88 - 91 (PM)	41 (AM) 90 (PM)
1/31/02 - 2/1/02	24-hour monitoring using Dust-Trak & Gravimetric samplers	4			18 and 25 using Dust Trak <0.0035 and 13.9 MEM			
2/04/02	Direct Readings	80	0	0	18 - 35(AM) 9 - 22 (PM)	27 (AM) 15 (AM)	48 - 52 (AM) 24 - 31 (PM)	50 (AM) 28 (PM)
2/1-2/02	24-hour monitoring using Gravimetric sampler	1			<0.00347 using a gravimetric sampler			
2/3-3/02	24-hour monitoring using Dust-Trak & Gravimetric samplers	4			12 and 12 using Dust Trak 6.25 and 6.94 MEM			
2/03/02	Direct Readings	80	0	0	6 - 19 (AM) 6 - 13 (PM)	12 (AM) 9 (PM)	13 - 28 (AM) 9 - 13 (PM)	23 (AM) 10 (PM)
2/06/02	Direct Readings	80	0	0	11 - 34 (AM) 17 - 30 (PM)	24 (AM) 23 (AM)	45 - 53 (AM) 38 - 44 (AM)	49 (AM) 42 (PM)

PUBLIC INTERMEDIATE SCHOOL 99M														
LEAD-IN-WIPE-DUST SAMPLE			MERCURY	PCB'S AND CYANIDE	SILICA (RESPIRABLE DUST)		FIBER GLASS	TVOC AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)			DIOXINS SAMPLES		METALS	
Date	# of Sample	Lead Conc. On Floor (ug/ft ²)	Lead Conc. On Window Sill (ug/ft ²)	Mercury Conc. (4-samples per day) (ng/m ³)	Concentration (3 samples per day) (ug/cm ²)	Range of Indoor Conc. (mg/m ³)	Range of Outdoor Conc. (mg/m ³)	Results	Indoor Readings	Outdoor Reading	Indoor Surfaces Range of Conc. (ug/m ²)	Air Plenum Conc. (ug/m ³)	Indoor Readings (ng/m ³)	Outdoor Readings (ng/m ³)
12/15/00				Non Detected at levels greater than detected in the blank.	3 PCB samples = Below Limit of Detection (0.5 ug/sample) 1 Cyanide sample = Non Detected				One Aromatic Hydrocarbon Sample: 2-Methyl-3-phthalone = 0.00015 mg/m ³ Naphthalene = 0.00033 mg/m ³	Two Aromatic Hydrocarbon Sample: 2-Methyl-3-phthalone = 0.00028 mg/m ³ Naphthalene = 0.00029 mg/m ³ OSHA PEL for PAHs = 0.2 mg/m ³	2 indoor air samples = 0.000013 to 0.000023	2 outdoor air samples = 0.0000099 to 0.0000093 (CLD/0.0000093)	Copper = 0.171 to 1.02 ng/m ³ in room 202 and cafeteria hallway	Copper = 0.221 ng/m ³ in east playground area
12/20/01					10 PCBs = below reporting limits of 2 micrograms per sample				2 TVOC Samples: Benzene = 1.9 ppb Ethylbenzene = 0.7 to 1.9 ppb 1,3-xylene = 0.9 ppb Methylchloride = ND Toluene = 1.7 to 10.4 ppb Xylenes = 12 ppb	1 TVOC Samples: Benzene = 0.6 ppb Ethylbenzene = 0.4 ppb 1,3-xylene = 0.9 ppb Methylchloride = ND Toluene = 0.9 to 1.5 ppb Xylenes = ND	10 indoor wipe samples = 0.0010 to 0.572		Detectable levels of 10 metals were found in the samples from 10 interior surfaces.	

02/07/2002 16:26 FAX 212 353 8308

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PUBLIC/INTERMEDIATE SCHOOL 49M														
LEAD-IN-WIPE-DUST SAMPLE				MERCURY	PCBS AND CYANIDE	SILICA (RESPIRABLE DUST)	FIBER GLASS		HYDROCARBONS (PAH)		DIOXINS SAMPLES		METALS	
Date	# of Sample	Lead Conc. On Floor (ug/ft ²)	Lead Conc. On Window Sill (ug/ft ²)	Mercury Conc. (4-samples per day) (ug/m ³)	Concentration (3 samples per day) (ug/cm ²)	Range of Indoor Conc. (ug/m ³)	Range of Outdoor Conc. (ug/m ³)	Results	Indoor Readings	Outdoor Reading	Indoor Surface Range of Conc. (ug/m ²)	Air Pleasum Conc. (ug/m ³)	Indoor Readings (ug/m ³)	Outdoor Reading (ug/m ³)
8/21/02	30	Below guideline level	Below guideline level			2 Air Samples = Below Detection Limit	1 Sample = 0.0159 (Above detection limit)	16 samples = 10 Not Detected	2 TVOC Samples Urethane = 0.49 and 0.51 ppb Ethylbenzene = 0.34 ppb Benzene = 0.02 Methylbenzene Chloride = 0.02 Toluene = 1.32 ppb Xylenes = 0.28 and 0.24 ppb	1 VOC Sample Benzene = 0.25 ppb Ethylbenzene = 0.34 ppb Methylbenzene Chloride = 0.02 Toluene = 1.32 ppb Xylenes = 0.28 and 0.24 ppb				Al = 18.3 ppb Pb = 20.4 ppb Cr = 0.24 ppb Cu = 1.22 ppb Zn = 2.44 ppb Fe = 5.89 ppb Mg = 32.1 ppb Ni = 1.82 ppb Mn = 3.75 ppb Zn = 3.22 ppb Ba = 11.6 ppb
8/23/02	10	Below guideline level	Below guideline level	Non detected above detection limit	PCBs = Below reporting limits of 2.0 ug/sample			1 sample along South side of floor Hallway = 2% fibers less. 4 samples = less than 1% fibers less	Non detected above detection limit	Non detected above detection limit			Al = 1.24 (1st floor hallway) Cr = 0.89 (4th floor hallway) Ba = 0.39 (1st floor hallway)	
8/23/02	30	Below guideline level	Below guideline level					8 samples = 4% fibers less						

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor - New York, NY 10010 - Phone (212) 353-8280, FAX (212) 353-3599 or 8306

NYLAP 60167
ELAP 10070
Microscopic OLVP 84-2

Client / Project NYC-BOE / P.S. 89M Project No. 14584-0819
Analysis Date 11/02/01 Analyst Reya Batch No. 19693

1	Field No. <u>21</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (JOB) Results %
		Color	Texture	Morphology	Extinction	Chrysotile	Cellulose	Mineral Fiber	Organic
		Homogeneity		RI	RI II	Anatase	Fiberglass	Organic Binders	Residue
		# of Layers	Asbestos	DS Color	Color/Pho	Other	Other	Vermiculite	Carbonate
		Color of Layer	Detected	Yes No	Sign			Other	Other
		Comments:							Asbestos
		Method: ☐ OLVP ☐ OLVP ☐ OLVP ☐ OLVP ☐ OLVP	Scanning Electron: OLVP (10-15 mm)		First 4 prep. Asbestos = 0				

2	Field No. <u>22</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (JOB) Results %
		Color	Texture	Morphology	Extinction	Chrysotile	Cellulose	Mineral Fiber	Organic
		Homogeneity		RI	RI II	Anatase	Fiberglass	Organic Binders	Residue
		# of Layers	Asbestos	DS Color	Color/Pho	Other	Other	Vermiculite	Carbonate
		Color of Layer	Detected	Yes No	Sign			Other	Other
		Comments:							Asbestos
		Method: ☐ OLVP ☐ OLVP ☐ OLVP ☐ OLVP ☐ OLVP	Scanning Electron: OLVP (10-15 mm)		First 4 prep. Asbestos = 0				

3	Field No. <u>23</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (JOB) Results %
		Color	Texture	Morphology	Extinction	Chrysotile	Cellulose	Mineral Fiber	Organic
		Homogeneity		RI	RI II	Anatase	Fiberglass	Organic Binders	Residue
		# of Layers	Asbestos	DS Color	Color/Pho	Other	Other	Vermiculite	Carbonate
		Color of Layer	Detected	Yes No	Sign			Other	Other
		Comments:							Asbestos
		Method: ☐ OLVP ☐ OLVP ☐ OLVP ☐ OLVP ☐ OLVP	Scanning Electron: OLVP (10-15 mm)		First 4 prep. Asbestos = 0				

4	Field No. <u>24</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (JOB) Results %
		Color	Texture	Morphology	Extinction	Chrysotile	Cellulose	Mineral Fiber	Organic
		Homogeneity		RI	RI II	Anatase	Fiberglass	Organic Binders	Residue
		# of Layers	Asbestos	DS Color	Color/Pho	Other	Other	Vermiculite	Carbonate
		Color of Layer	Detected	Yes No	Sign			Other	Other
		Comments:							Asbestos
		Method: ☐ OLVP ☐ OLVP ☐ OLVP ☐ OLVP ☐ OLVP	Scanning Electron: OLVP (10-15 mm)		First 4 prep. Asbestos = 0				

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor - New York, NY 10010 - Phone (212) 353-8280, FAX (212) 353-3589 or 0303

INCLAP 005107

ELAP 10019

Stereoscopic 02.17.001-2

Client/Project NYC-BOE/PS 89M, 201 Warren St, NY, NY 10282 Project No. 14584-0819Analysis Date 11/02/01 Analyst E. A. Cunniff Batch No. 19694

1	Field No. <u>13</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Color <u>Brown</u>	Texture <u>F</u>	Morphology <u>Long</u>	Extraction RI II <u>1.549</u>	Chrysotile <u>0.35</u>	Cellulose <u>13.75</u>	Mineral Fiber <u>26</u>	Organic Residue	
	Homogeneity <u>Y</u>	Asbestos <u>X</u>	RI I <u>1.549</u>	Amosite		Fiberglass <u>60</u>	Organic Binders		
	# of Layers	Detected Yes No	US Color <u>6.14</u>	Other		Other	Vermiculite		
	Color of Layer		Blot <u>L</u>	Sign <u>+</u>			Other		
	Comments:								
	Method: ☒ 10x/10x ☐ 10x/20x ☐ 20x/20x ☐ 20x/40x ☐ 40x/40x ☐ 40x/60x ☐ 60x/60x ☐ 60x/80x ☐ 80x/80x ☐ 80x/100x ☐ 100x/100x ☐ 100x/120x ☐ 120x/120x ☐ 120x/150x ☐ 150x/150x ☐ 150x/200x ☐ 200x/200x ☐ 200x/250x ☐ 250x/250x ☐ 250x/300x ☐ 300x/300x ☐ 300x/400x ☐ 400x/400x ☐ 400x/500x ☐ 500x/500x ☐ 500x/600x ☐ 600x/600x ☐ 600x/800x ☐ 800x/800x ☐ 800x/1000x ☐ 1000x/1000x ☐ 1000x/1200x ☐ 1200x/1200x ☐ 1200x/1500x ☐ 1500x/1500x ☐ 1500x/2000x ☐ 2000x/2000x ☐ 2000x/2500x ☐ 2500x/2500x ☐ 2500x/3000x ☐ 3000x/3000x ☐ 3000x/4000x ☐ 4000x/4000x ☐ 4000x/5000x ☐ 5000x/5000x ☐ 5000x/6000x ☐ 6000x/6000x ☐ 6000x/8000x ☐ 8000x/8000x ☐ 8000x/10000x ☐ 10000x/10000x ☐ 10000x/12000x ☐ 12000x/12000x ☐ 12000x/15000x ☐ 15000x/15000x ☐ 15000x/20000x ☐ 20000x/20000x ☐ 20000x/25000x ☐ 25000x/25000x ☐ 25000x/30000x ☐ 30000x/30000x ☐ 30000x/40000x ☐ 40000x/40000x ☐ 40000x/50000x ☐ 50000x/50000x ☐ 50000x/60000x ☐ 60000x/60000x ☐ 60000x/80000x ☐ 80000x/80000x ☐ 80000x/100000x ☐ 100000x/100000x ☐ 100000x/120000x ☐ 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250000000000000x/250000000000000x ☐ 250000000000000x/300000000000000x ☐ 300000000000000x/300000000000000x ☐ 300000000000000x/400000000000000x ☐ 400000000000000x/400000000000000x ☐ 400000000000000x/500000000000000x ☐ 500000000000000x/500000000000000x ☐ 500000000000000x/600000000000000x ☐ 600000000000000x/600000000000000x ☐ 600000000000000x/800000000000000x ☐ 800000000000000x/800000000000000x ☐ 800000000000000x/1000000000000000x ☐ 1000000000000000x/1000000000000000x ☐ 1000000000000000x/1200000000000000x ☐ 1200000000000000x/1200000000000000x ☐ 1200000000000000x/1500000000000000x ☐ 1500000000000000x/1500000000000000x ☐ 1500000000000000x/2000000000000000x ☐ 2000000000000000x/2000000000000000x ☐ 2000000000000000x/2500000000000000x ☐ 2500000000000000x/2500000000000000x ☐ 2500000000000000x/3000000000000000x ☐ 3000000000000000x/3000000000000000x ☐ 3000000000000000x/4000000000000000x ☐ 4000000000000000x/4000000000000000x ☐ 4000000000000000x/5000000000000000x ☐ 5000000000000000x/5000000000000000x 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100000000000000000x/100000000000000000x ☐ 100000000000000000x/120000000000000000x ☐ 120000000000000000x/120000000000000000x ☐ 120000000000000000x/150000000000000000x ☐ 150000000000000000x/150000000000000000x ☐ 150000000000000000x/200000000000000000x ☐ 200000000000000000x/200000000000000000x ☐ 200000000000000000x/250000000000000000x ☐ 250000000000000000x/250000000000000000x ☐ 250000000000000000x/300000000000000000x ☐ 300000000000000000x/300000000000000000x ☐ 300000000000000000x/400000000000000000x ☐ 400000000000000000x/400000000000000000x ☐ 400000000000000000x/500000000000000000x ☐ 500000000000000000x/500000000000000000x ☐ 500000000000000000x/600000000000000000x ☐ 600000000000000000x/600000000000000000x ☐ 600000000000000000x/800000000000000000x ☐ 800000000000000000x/800000000000000000x ☐ 800000000000000000x/1000000000000000000x ☐ 1000000000000000000x/1000000000000000000x ☐ 1000000000000000000x/1200000000000000000x ☐ 1200000000000000000x/1200000000000000000x ☐ 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04881 4V7E
281601 4V7A

Client / Project NYC-BOE / P.S. 89M

Project No. 14584-0819

Batch No. 19693

Analysis Date 11/02/01 Analyst KReye

Flash No. 28		Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Holt Fibrous %	Greefflastic (HOB) Results %
		Color _____ Homogeneity _____ # of Layers _____ Color of Layer _____	Morphology _____ RII _____ DS Color _____ Sign _____	Calyssolia _____ Amosite _____ Other _____	☒ Cellulose ☒ Fiberglass Other _____	☒ Mineral Fiber Organic Dispers _____ Verminicide _____ Oiler _____	Organic _____ Residue _____ Carbonate _____ Oiler _____ Asbestos _____
		Comments:					
		Mention: ☐ Lat + Sm ☐ Gm ☐ Gm ☒ Gm	Estimated cotton = 0.07% c.c. / gm ³				
GSA Form 1-68 (Rev. 1-68)		Form L prep. Replaces - B					

01/21/2002 14:19 FAX 212 353 8306

ATC

048

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor, New York, NY 10010. Phone: (212) 353-8280, FAX (212) 353-3599 or 3105

HVALAP 101487

FL-28 10079

2.11.18 д/гд одобрено

Project No: 14584-0819

Batch No. 19693

Client / Project NYC-BOE / P.S. 89M

Analysis Date: 11/02/01 Analyst: *VR*

[illegible]



104 East 25th Street
New York, New York 10010
212.353.8280
Fax 212.353.8306

January 11th, 2002

Mr. Donald Santo
NYC School Construction Authority
IEH Department
30-30 Thomson Avenue
Long Island City, NY 11101

Re: I.S. 89-M
201 Warren Street
NY, NY 10007

Dear Mr. Santo:

ATC Associates Inc has conducted aggressive air sampling on the 1st, 2nd, 3rd, 4th, 5th floors and the 6th floor mechanical room, at the above referenced school on January 10th, 2002. A total of 49 TEM Air Samples were collected. The analysis was performed in strict conformance with the methodology of the AHERA Final Rule (40 CFR Part 763, October 30th, 1987).

Therefore, based upon the visual inspection and TEM sample results, the aforementioned locations are safe for re-occupancy.

If any questions should arise, feel free to contact us (212) 353-8280 ext. 273.

Sincerely,

ATC ASSOCIATES, INC.


Remi Sanchez
Senior Project Manager

Cc: Alex Lempert



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

January 11, 2002

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

15-21203-0089

Attn: Mr. Don Santo
Re: Report of TEM Analysis

Dear Mr. Santo:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 6303:

Project Name: I.S. 89M, 201 Warren St., NY, NY
Location: Floors 1-6
Samples received: 01/10/02

These results will confirm and document the data transmitted today to Mr. Michael Parpounas, Director of Asbestos Services, of our office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR 763, Appendix A to Subpart E, October 30, 1987) for clearance of abatement sites.

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

Copies of the bench sheets are also included as stipulated by AHERA. MM1 TEM cassettes, Lot No. 1358, were used. 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. If post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

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,

A handwritten signature in cursive script, appearing to read 'Michael A. Gorycki'.

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

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280

Fax: (212) 353-8306

**Attn:**

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City NY 11101

Received: 1/11/02 5:30:00 AM

ATC Group #: 6303

Analysis Date: 1/11/02

Fax:**Phone:**

Project: I.S. 89M

201 Warren Street, New York, NY

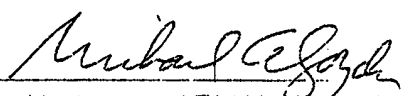
**Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed
by EPA 40 CFR Part 763 Final Rule (AHERA)**

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5 µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	Notes
03 6303 -1	1890.00	0.0450	0	None Detected	0	0	0.0045 <22.24	<0.0045
04 6303 -2	1890.00	0.0450	0	None Detected	0	0	0.0045 <22.24	<0.0045
05 6303 -3	1899.00	0.0450	0	None Detected	0	0	0.0045 <22.24	<0.0045
06 6303 -4	1899.00	0.0450	0	None Detected	0	0	0.0045 <22.24	<0.0045
07 6303 -5	1908.00	0.0450	0	None Detected	0	0	0.0045 <22.24	<0.0045
08 6303 -6	1881.00	0.0450	0	None Detected	0	0	0.0046 <22.24	<0.0046
09 6303 -7	1881.00	0.0450	0	None Detected	0	0	0.0046 <22.24	<0.0046
10 6303 -8	1872.00	0.0450	0	None Detected	0	0	0.0046 <22.24	<0.0046

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 #101187-0, NY State ELAP #10879

Attn:

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City NY 11101

Received: 1/11/02 5:30:00 AM

ATC Group #: 6303

Analysis Date: 1/11/02

Fax:

Phone:

Project: I.S. 89M

201 Warren 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 µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)	Notes
11 6303 -9	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
12 6303 -10	1881.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
12A 6303 -11	1881.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
13 6303 -12	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
14 6303 -13	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
15 6303 -14	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
16 6303 -15	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
17 6303 -16	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
18 6303 -17	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
19 6303 -18	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046

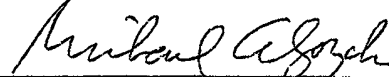
ROMAN PEYSAKHOV

Analyzed by:



MICHAEL A. GORYCKI, Ph.D.

Approved by:



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

Attn:

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City NY 11101

Received: 1/11/02 5:30:00 AM

ATC Group #: 6303

Analysis Date: 1/11/02

Fax:

Phone:

Project: I.S. 89M

201 Warren 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 µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)	Notes
20 6303 -19	1854.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
21 6303 -20	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
22 6303 -21	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
23 6303 -22	1836.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047
24 6303 -23	1836.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047
25 6303 -24	1836.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047
26 6303 -25	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
27 6303 -26	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
28 6303 -27	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046
29 6303 -28	1827.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047

ROMAN PEYSAKHOV

Analyzed by:



MICHAEL A. GORYCKI, Ph.D.

Approved by:



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

Attn: N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City NY 11101

Received: 1/11/02 5:30:00 AM

ATC Group #: 6303

Analysis Date: 1/11/02

Fax: Phone:

Project: I.S. 89M
201 Warren 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 µ		Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²) (S/cc)		Notes
30 6303 -29	1827.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
31 6303 -30	1836.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
32 6303 -31	1836.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
33 6303 -32	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
34 6303 -33	1854.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
35 6303 -34	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
36 6303 -35	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
37 6303 -36	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
38 6303 -37	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
39 6303 -38	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	

ROMAN PEYSAKHOV

Analyzed by:

RP

MICHAEL A. GORYCKI, Ph.D.

Approved by:

Michael A. Gorycki

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

Attn: N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City NY 11101

Received: 1/11/02 5:30:00 AM

ATC Group #: 6303

Analysis Date: 1/11/02

Fax: Phone:

Project: I.S. 89M
201 Warren 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 µ		Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²) (S/cc)		Notes
40 6303 -39	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
41 6303 -40	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
42 6303 -41	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
43 6303 -42	1881.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
44 6303 -43	1881.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
45 6303 -44	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
46 6303 -45	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	

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



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 7

PROJECT INFORMATION

1. Client: NYCSCA	2. Project Name: 15. 89-W.	3. Project # 21303-054	4. Project Monitor: 2. E. W. H. S. K. / T. C. H. S. K.	4c. Rotameter Number: 7100
5. Date: 1-10-02	6. Abatement Location: 6th. FLOOR	7. ☐ PCM (0.8 micron MCS) Cassette/Filter Manufacture Lot # 1350	8. ☒ TEM (0.45 micron MCS) Cassette/Filter Manufacture Lot # 1350	9. Type: a. ☐ Abatement b. ☐ Background c. ☐ Post-Abate d. ☐ OSHA e. ☐ Environmental f. ☐ Ambient g. ☐ Other
2a. Project Address: 201 Warren St.	3a. Task # 01	4a. Air Sampler: 2. E. W. H. S. K. / T. C. H. S. K.		

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	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	
01										
02										
03										
04										
05										
06										
07										

CHAIN OF CUSTODY

18. Relinquished By: [Signature]	19. Received By: [Signature]	20. Date: 1-10-02	21. Time: 5:30am
II. [Signature]			
III. [Signature]			

26. ATC Project Manager:

27. Result To: Remediation	27. Result To: Remediation
Beeper/Phone #s 606-279-27	Beeper/Phone #s 606-279-27

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

22. Lab Name: ATC-TEMA	23. Date: 1-10-02	24. Time: 8:30
a. Analyzed By: [Signature]		
b. QC By: [Signature]		
c. Lab Batch #:		
25. Microscope Make/Serial #: ☐ 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)



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

6303

PROJECT INFORMATION

1. Client: NYC SCA	2. Project Name: FC PGM	3. Project #: 21203087	4. Project Monitor: 2610001111 / T. Scarsella	4c. Rotameter Number: 411100
5. Date: 1-10-02	6. Abatement Location: 5th Floor	7. PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot # 1358	8. TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot # 1358	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other
10. Sample I.D. Number	11. Pump Number	12. Sample Location	13. Time (24 hrs clock)	14. Flow Rate (L/min.)
		12a. IWA	13a. Start	14a. Start
		12b. OWA	13b. End	14b. End
		12c. Sample Coordinates	13c. Total	14c. Total
		Field Blank		
		Field Blank		

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
			13a. Start	14a. Start	14b. Avg		
08			1545	1914	209	9.0	1681
09		Inside Room 501	1546	1915	209	9.0	1681
10		For Corridor outside Room 506 Elevator	1547	1917	209	9.0	1681
11		Inside Room 510	1548	1918	208	9.0	1672
12		For Corridor by Room 526	1549	1920	209	9.0	1681
12A		Inside Room 506	1552	1921	209	9.0	1681

CHAIN OF CUSTODY

18. Relinquished By: [Signature]	19. Received By: [Signature]	20. Date: 1-10-02	21. Time: 11:00
I			
II			
III			
26. ATC Project Manager: [Signature]	27. Result To: [Signature]	28. Comments:	29. Lab Batch #:
25. Microscope Make/Serial #: ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079		Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA	



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: NYCSCA 2. Project Name: PS 59M 3. Project # 3103-089 4. Project Monitor: SA KENNEDY / J. Kennedy 4c. Rotameter Number: 1700

5. Date: 1-10-02 6. Abatement Location: 4th Floor 7. PCM (0.8 micron MCE) Lot # 135B 8. TEM (0.45 micron MCE) Lot # 135B 9. Type: ☒ Abatement ☐ Post-Abate ☐ OSHA ☐ Environmental ☐ Ambient ☐ Other

10. Sample I.D. Number 15 11. Pump Number 1 12. Sample Location Inside Room # 402 13. Time (24 hrs clock) 1600 14. Flow Rate (L/min.) 9.0 15. Total Air Vol. (liters) 1845 16. # Fibers/Fields Minus Blank 1845 17. Fiber Conc. F/CC 1845

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
15	1	Inside Room # 402	1600	1925	205	9.0	9.0	9.0	1845		
16	1	Corridor by Room # 402	1601	1926	205	9.0	9.0	9.0	1845		
17	1	Inside Room # 406	1602	1927	205	9.0	9.0	9.0	1845		
18	1	Corridor in Front of Room # 26	1603	1928	205	9.0	9.0	9.0	1845		
19	1	Inside Room # 428	1604	1929	205	9.0	9.0	9.0	1845		
20	1	Inside Stairwell # 1	1606	1931	206	9.0	9.0	9.0	1851		

CHAIN OF CUSTODY

18. Relinquished By: [Signature] 19. Received By: [Signature] 20. Date: 1-10-02 21. Time: 1600

22. Lab Name: ATC - TEM 23. Date: 1-10-02 24. Time: 1600

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

26. ATC Project Manager: Ron. Harty 27. Result To: Ron. Harty 28. Comments: Beeper/Phone # 9028 07 9532 # 1412

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

22. Lab Name: ATC - TEM 23. Date: 1-10-02 24. Time: 1600

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

26. ATC Project Manager: Ron. Harty 27. Result To: Ron. Harty 28. Comments: Beeper/Phone # 9028 07 9532 # 1412

WHITE - File YELLOW - Client/Report

PINK - Lab GOLDENROD - Field

NY-1 (1/01)

PROJECT INFORMATION

1. Client: NWC SCA	2. Project Name 7189M	3. Project # 8225-09	4. Project Monitor FORWARD / SANCHEZ	4c. Rotameter Number: 112112
	2a. Project Address 221 WARREN ST. N4404	3a. Task #	4a. Air Sampler FORWARD / SANCHEZ	
5. Date: 1-10-02	6. Abatement Location: 3rd Floor	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # _____	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture _____ Lot # 1358	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			13. Time (24 hrs clock)			14. Flow Rate (L/min.)			15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/C
		12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
				Field Blank									
				Field Blank									
21	0			Inside Room # 301	1610	1935	205	9.0	9.0	9.0	1845		
22	0			Inside Stairwell # 3	1611	1936	205	9.0	9.0	9.0	1845		
23	0			Inside Room # 304	1613	1937	204	9.0	9.0	9.0	1836		
24	0			Corridor Adj To Room # 304	1614	1938	204	9.0	9.0	9.0	1836		
25	0			Inside Gym, North side	1616	1940	204	9.0	9.0	9.0	1830		
26	X			Inside Gym, South side	1617	1942	205	9.0	9.0	9.0	1845		
27	0			Inside Room # 326	1617	1943	205	9.0	9.0	9.0	1845		

CHAIN OF CUSTODY

25. Microscope Make/Serial #:	☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079		
Analysis Methodology			
PCM - NIOSH 7400A			
TEM - AHERA			

22. Lab Name:	ATC - JFH	23. Date:	1/1/02	24. Time:	8:00
a. Analyzed By:	RRy				
b. QC By:					
c. Lab Batch #:					

28. Comments:					
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19. Received By:	20. Date:	21. Time:
	1/1/02	5:30
	1/1/02	

26. ATC Project Manager:	27. Result To:
P. SANCHEZ	P. SANCHEZ
	Beeper/Phone #'s



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: ATC	2. Project Name PS F9M	3. Project # 21203-069	4. Project Monitor: 263 Kew-Forest / TSC + 145	4c. Rotameter Number:
5. Date: 1-10-02	6. Abatement Location: 3rd Floor - 2nd Floor	7. PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot #	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot # 135B	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other
2a. Project Address 201 Warren St.		3a. Task # 01	4a. Air Sampler: 38. Kew-Forest / TSC + 145	

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	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14c. Avg			
28						1619	1944	205	9.0	9.0	1545	
29						1626	1949	203	9.0	9.0	1527	
30						1627	1950	203	9.0	9.0	1577	
31						1628	1952	204	9.0	9.0	1536	
32						1629	1953	204	9.0	9.0	1536	
33						1630	1955	205	9.0	9.0	1550	

CHAIN OF CUSTODY

18. Relinquished By: 	19. Received By: 	20. Date: 1-10-02	21. Time: 1:00 PM
I			
II			
III			

26. ATC Project Manager: Rami Samir	27. Result To: Rami Samir
Beeper/Phone #s: 400-607-1714	

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

22. Lab Name: ATC - F9M	23. Date: 1-10-02
24. Time: 8:00	
a. Analyzed By: RLY	
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 (1/01)



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 7 of 7

TURNAROUND TIME

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

PROJECT INFORMATION

1. Client: NYC DOA	2. Project Name: 3300 W	3. Project #: 2283-69	4. Project Monitor: James P. Serrano	4c. Rotameter Number: 11740
5. Date: 1-10-02	6. Abatement Location: 2nd Floor	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot #	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot # 1373	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
2a. Project Address: 101 WARREN ST. NY NY		3a. Task #		

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump			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												
34			Auditorium - East side				1631	1957	206	9.0	9.0	9.0	1857		
35			STAIRWELL #2				1632	1959	207	9.0	9.0	9.0	1863		
36			CORRIDOR Adj. To ROOM 228				1633	2000	207	9.0	9.0	9.0	1863		

CHAIN OF CUSTODY

18. Relinquished By: [Signature]	19. Received By: [Signature]	20. Date: 1-10-02	21. Time: 5:30 PM
I			
II			
III			
26. ATC Project Manager: P. SANCHEZ			
27. Result To: P. SANCHEZ Beeper/Phone #s			

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

22. Lab Name: ATC-TEM	23. Date: 1-10-02	24. Time: 8:00	25. Microscope Make/Serial #: ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079
28. Comments:			Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA

WHITE - File YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY-1 (1/01)



AIR MONITORING DATA
AND
CHAIN OF CUSTODY FORM

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TURNAROUND TIME

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

PROJECT INFORMATION

1. Client: NYC DEP	2. Project Name PI 8911	3. Project # 2003-89	4. Project Monitor GOLDENROD	5c. Rotameter Number: 10010
5. Date: 1-10-02	6. Abatement Location: 155 FLOCH	7. PCM (0.8 micron MCE) Lot #	8. TEM (0.45 micron MCE) Cassette/Fiber Manufacture Lot # 1318	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
2a. Project Address 201 WARREN ST NY 100		3a. Task #	4a. Air Sampler	

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	13a. Start	13b. End	13c. Total	14a. Start	14b. End			
37											
38				1635	2002	207	9.0	9.0	1663		
39				1634	2003	207	9.0	9.0	1663		
40				1637	2005	208	9.0	9.0	1672		
41				1638	2006	208	9.0	9.0	1672		
42				1639	2007	208	9.0	9.0	1672		
				1640	2008	208	9.0	9.0	1672		

CHAIN OF CUSTODY

18. Relinquished By: I. [Signature]	19. Received By: II. [Signature]	20. Date: 1-10-02	21. Time: 11:00
26. ATC Project Manager: P. SANCHEZ		27. Result To: Beeper/Phone #15	

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

22. Lab Name: ATC - TEM	23. Date: 1-10-02	24. Time: 8:00
a. Analyzed By: RKly	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 (1/01)



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

Client: <u>NYC SCA</u>		2. Project Name: <u>93 BQ 10</u>		3. Project # <u>93-89</u>		4. Project Monitor: <u>Ex Kenneth J. Sanchez</u>		4c. Rotameter Number: <u>44-110</u>	
Date: <u>1-10-02</u>		6. Abatement Location: <u>150 Floor</u>		7. ☐ PCM (0.8 micron MCE) Cassette/Filtr. Manufacture _____ Lot # _____		8. ☒ TEM (0.45 micron MCE) Cassette/Filtr. Manufacture <u>3580</u> Lot # _____		9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other	
2a. Project Address: <u>6303 BILWADEN ST, NY 100</u>		3a. Task # _____		4a. Air Sampler: <u>Ex Kenneth J. Sanchez</u>					

DAILY AIR 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	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
43												
44												
45												
46												
47												
48												
49												

CHAIN OF CUSTODY

8. Relinquished By: <u>[Signature]</u>	19. Received By: <u>[Signature]</u>	20. Date: <u>1-10-02</u>	21. Time: _____
I			
II			
III			
16. ATC Project Manager: <u>P. Sanchez</u>		27. Result To: <u>P. Sanchez</u> Beeper/Phone #'s _____	
28. Comments: _____			

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

22. Lab Name: <u>ATC - TEM</u>	23. Date: <u>1-10-02</u>	24. Time: <u>8:00</u>
a. Analyzed By: <u>APM</u>	b. QC By: _____	c. Lab Batch #: _____
25. Microscope Make/Serial #: ☐ Nikon Labphot 238913 ☐ Nikon Labphot 238917 ☐ Nikon Labphot 239079		
Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA		

PINK - Lab

YELLOW - Client/Report

WHITE - File

GOLDENROD - Field

NY-1 (1/01)



AIR MONITORING DATA
AND
CHAIN OF CUSTODY FORM

Page

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TURNAROUND TIME

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

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
NYC - SCA	P.S. BGM	D1203-089	J. Sparrella	HP-59
5. Date:	6. Abatement Location:	7. PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot #	8. TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot #	9. Type:
11.29.01	5th floor	Multi-METRICS - 915		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	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	
01										
02										
03	✓			09.33	11.38	125	14.5	14.5	14.5	2.5/100 <0.003
04	✓			09.35	11.40	125	14.5	14.5	14.5	1/100 <0.003
05	✓			09.36	11.41	125	14.5	14.5	14.5	6.5/100 <0.003
06	✓			09.38	11.43	125	14.5	14.5	14.5	1/100 <0.003
07	✓			09.39	11.44	125	14.5	14.5	14.5	1/100 <0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I M. Balota	A. Florent	11.29.01	13.30
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Florent	11.29.01	14.30
b. QC By:		
c. Lab Batch #:	98123	
25. Microscope Make/Serial #:	26. Comments:	
☒ Nikon Labophot 238913		
☐ Nikon Labophot 238917		
☐ Nikon Labophot 239079		
Analysis Methodology		
PCM-NIOSH 7400A		
TEM - AHERA		

28. ATC Project Manager:

27. Result To:	27. Result To:
R. Sanchez	Demi Sanchez
Beeper/Phone #s	ATC-ext 243

WHITE - File YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY-1 (1/00)



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 2 of 5

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:
NYC-SCA	P.S. 89 M	21203-089	J. Sanchez	442-33
5. Date:	6. Abatement Location:	7. PCM (0.8 micron MCE)	8. TEM (0.45 micron MCE)	9. Type:
11.29.01	4th floor	MULTI	Lot # 15121213-815	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	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
08		✓		09:44	11:49	125	14.5	14.5	14.5	1812.5	1/100	20.003
09		✓		09:46	11:51	125	14.5	14.5	14.5	1812.5	2/100	20.003
10		✓		09:48	11:53	125	14.5	14.5	14.5	1812.5	1/100	20.003
11		✓		09:49	11:54	125	14.5	14.5	14.5	1812.5	1.5/100	20.003
12		✓		09:50	11:55	125	14.5	14.5	14.5	1812.5	2/100	20.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I M. Balch	A. Elbert	11.29.01	13:30
II			
III			
26. ATC Project Manager:	27. Result To:	28. Comments:	
Remi Sanchez	R. Sanchez	98123	
	Beeper/Phone #s	ATC ext 273	
LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)			
22. Lab Name:	23. Date:	24. Time:	25. Microscope Make/Serial #:
A. Elbert	11/23/01	14:30	Nikon Labophot 238913
b. QC By:			☐ Nikon Labophot 238917
c. Lab Batch #:			☐ Nikon Labophot 239079
			Analysis Methodology
			PCM - NIOSH 7400A
			TEM - AHERA



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
NYC-SCA	P.S. 89M	21203-029	J. Sanchez	HP-99
5. Date:	6. Abatement Location:	7. PCM (0.8 micron MCE)	8. TEM (0.45 micron MCE)	9. Type:
11.29.01	3rd floor	Metrics - DIS	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	13a. Start	13b. End	13c. Total	14a. Start	14b. End			
13		✓									
14		✓									
15		✓									
16		✓									
17		✓									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I M. P. L. L.	A. Elbert	11/29/01	13:00
II			
III			
26. ATC Project Manager:	27. Result To:	28. Comments:	29. Microscope Make/Serial #:
Remi Sanchez	Remi Sanchez	AT ext 275	Elbert 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)



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
NYC - SCA	P.S. 89 M	21203-089	J. SCARCELLA	HP. 50
5. Date:	6. Abatement Location:	7. PCM (0.8 micron MCE)	8. TEM (0.45 micron MCE)	9. Type:
4/12/01	End floor	201 WARREN STR.	21203-089	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
		7. ☒ PCM (0.8 micron MCE)		
		Cassette/Fiber Manufacture		
		Lot #		

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	13a. Start	13b. End	13c. Total	14a. Start	14b. End			
		Field Blank									
		Field Blank									
18		End floor - corridor		10:05	12:10	12:5	14.5	14.5	14.5	1/100	10.003
19		Next to Room # 202		10:06	12:11	12:5	14.5	14.5	14.5	1/100	10.003
20		End floor - Room # 201		10:06	12:13	12:5	14.5	14.5	14.5	2/100	10.003
		End floor - corridor		10:06	12:13	12:5	14.5	14.5	14.5	1.5/100	10.003
21		Across Room # 326		10:10	12:15	12:5	14.5	14.5	14.5	1/100	10.003
		2nd floor - Audit. Stage									
		In the middle									
22		2nd floor - Staircase # 3		10:11	12:16	12:5	14.5	14.5	14.5	1/100	10.003
		Landing									

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:	22. Lab Name:	23. Date:	24. Time:
I. M. Balch	A. Elbert	4/12/01	13:00	a. Analyzed By:	4/12/01	14:00
II.				b. QC By:		
III.				c. Lab Batch #:	98123	
26. ATC Project Manager:	27. Result To:	28. Comments:				
Remi Sanchez	Remi Sanchez	Beeper/Phone #s	516 ext 273			

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

25. Microscope Make/Serial #:	26. Analysis Methodology:
Nikon Labophot 238917	PCM - NIOSH 7400A TEM - AHERA
☐ Nikon Labophot 238917	
☐ Nikon Labophot 239079	



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 5 of 5

TURNAROUND TIME

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

PROJECT INFORMATION

1. Client: NYC-SCA	2. Project Name: P.S. BGM	3. Project #	4. Project Monitor: J. Senevella	4c. Rotameter Number: HP 09
5. Date: 11/28/01	2a. Project Address: 201 WARREN ST.	7. ☒ TEM (0.3 micron MCE) Cassette/Filter Manufacture: METRICS - 915 Lot #: 11/28/01	4a. Air Sampler: M. Balota	
6. Abatement Location: 1st floor	7. ☒ PCM (0.3 micron MCE) Cassette/Filter Manufacture: METRICS - 915 Lot #: 11/28/01	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	

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	13a. Start	13b. End	14a. Start	14b. End			
23										
24										
25										
26										
27										
28										

CHAIN OF CUSTODY

18. Relinquished By: I. M. Balota	19. Received By: H. Elbert	20. Date: 11/29/01	21. Time: 13:00
II			
III			

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

22. Lab Name:	23. Date: 11/29/01	24. Time: 14:00
a. Analyzed By: H. Elbert		
b. QC By:		
c. Lab Batch #: 98123		
25. Microscope Make/Serial #: Nikon Labophot 238913		
26. ATC Project Manager: Remi Sanchez	27. Result To: Remi Sanchez	28. Comments:
	Beeper/Phone #'s: ATC ext 213	

WHITE - File YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY-1 (1/00)

NEW YORK CITY SCHOOL
CONSTRUCTION AUTHORITY

Nov 20, 2001

Monitor Proceed Order

Date: November 20, 2001

ATC Environmental
104 E. 25th Street
New York, NY 10010

Program: WTC PROGRAM Contract #: 0018710 Job #: 14528
BOE Work Order #(s): N/A
LLW#(s): 028804

This document shall serve as notice that ATC Environmental is directed to proceed immediately to:

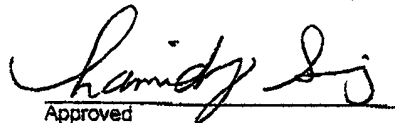
Facility: M089
School: P.S./I.S. 89
Address: 201 WAREEN STREET
District: 02
Borough of: Manhattan

and perform all necessary environmental health and safety work in accordance with SCA specifications and as directed by the Industrial and Environmental Hygiene Division. See the attachment to this document for detailed instructions.

Payment requests for work performed shall be prepared and submitted in accordance with the requirements specified within contract documents for contract 0018710 by and between New York City School Construction Authority and ATC Environmental. Payments will be approved only after receipt of a completed Request for Payment form and all appropriate documentation.

NOTE: NO WORK SHALL BE PERFORMED WHILE SCHOOL IS OCCUPIED.

All work designated for student areas shall be performed during non-school hours (on school days) or on Saturdays, Sundays or school holidays. No work shall commence without prior notification to the SCA representative and the school custodian.


Approved

11/20/01
Date

Copy To: Active Job Folder

Custodian:

Custodian Phone:

SCA Inspector: Donald Santo

Phone: (718)472-8514

Industrial and Environmental
Hygiene Division

**New York City
School Construction Authority
Industrial and Environmental Hygiene**

Monitor Job Scope

Page 1 of 1

Facility: M089**School: P.S./I.S. 89****Contract No: 0018710****Job #: 14528****District: 02****Consultant: ATC Environmental**

Consultant/Contractor shall furnish the services described in the areas identified below in accordance with the terms of the contract, and will follow current legal requirements.

Floor	Room	Quantity	Unit Price	Item Price
entir	entire	1	30,000.00	30,000.00
Description: Provide Monitor + Air Sampling Services				
			Total Price:	\$30,000.00

TOTAL P.03

NEW YORK ENVIRONMENTAL & MATERIAL TESTING LABORATORIES, INC.

AN INDEPENDENT FULL SERVICE TESTING AND CONSULTING FIRM

88 HARBOR ROAD
PORT WASHINGTON, N.Y. 11050
(516) 944-9510 • FAX (516) 944-9507

January 15, 2001

Mr. Don Santo
New York City School Construction Authority
Industrial and Environmental Hygiene
30-30 Thomson Avenue
Long Island City, New York 11011

Re: Public School 89M (WTC Program)
201 Warren Street New York, New York
Job Number: M089-14528
LLW Number: 028804

Dear Mr. Santo,

New York Environmental and Material Testing Laboratories, NYE & MTL, performed quality control air sampling at the above referenced site on January 10, 2002. NYE & MTL project monitors Mr. Al Palermo and Mr. Maher Abraham collected the quality control air samples throughout the project. Athenica Environmental Services, Inc., a third party independent laboratory, performed the transmission electron microscopy (TEM) for the project.

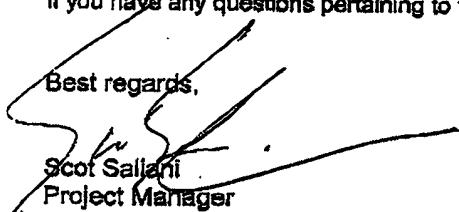
NYE & MTL was directed by the New York City School Construction Authority's Industrial and Environmental Hygiene department to collect 25% of the total number of air samples collected by ATC Associates, Inc. NYE & MTL collected a total of twenty-four (24) TEM samples on January 10, 2002. The samples were collected simultaneously, in the same locations as samples being collected by ATC Associates. NYE & MTL collected the TEM air samples in accordance with AHERA protocol using high-volume sampling pumps that were calibrated before, during and after each sample collected.

The samples were transported to Athenica Environmental Services, Inc. on January 10, 2002. Athenica performed the TEM air sample analysis in accordance with AHERA protocol on January 11, 2002. The sample results were reported to SCA Industrial and Environmental Hygiene via facsimile, followed by a hard copy delivered by NYE & MTL on January 11, 2002.

All environmental consulting services performed throughout this project were conducted in strict accordance with New York State ICR 56, New York City Title 15, AHERA, NYC SCA requirements and all other applicable federal, state and local guidelines.

If you have any questions pertaining to this project, please do not hesitate to contact me.

Best regards,


Scot Sallani
Project Manager


ATHENICA
 ENVIRONMENTAL SERVICES INC.

 Tel. (718) 764-7400
 Fax. (718) 764-4955

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

 CLIENT: New York Environmental
 LABORATORY ID #: T02-01-002
 ANALYT. METHODOLOGY: AHERA
 FILTER TYPE: M.C.E.
 AVERAGE G.O. AREA (mm²): 0.009936

 PROJECT: P.S. 89M
 DATE OF REPORT: 01/11/02
 DATE OF ANALYSIS: 01/11/02
 EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (ft ³)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIV. (struct./cm ³)	TOTAL ASBESTOS AIR CONC. (struct./cm ³)	TOTAL ASBESTOS FILTER CONC. (str./mm ²)	AIR CONC. FOR STRUCT. 0.553-5µm	AIR CONC. FOR STRUCT. ≥2.5µm	ASBEST. TYPE CHYRS.	AMPHIB. ASBEST. TYPE SPECIFY
A-1	T02-01-002-004	6 th floor in stair #3	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-2	T02-01-002-005	6 th floor in boiler room	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-3	T02-01-002-006	6 th floor elevator room	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-4	T02-01-002-007	6 th floor fan room	1800	5	0.0497	0.0043	0.0043	20.13	0.0043	<0.0043	Chrys.	NA
A-5	T02-01-002-008	In room 506	1800	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-6	T02-01-002-009	5 th floor hall, o/s room 507	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA

ANALYST

LABORATORY DIRECTOR

LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

- Athenica Environmental Services Inc. (AES), is responsible only for information pertaining to samples taken by its employees.
- Air sampling cassettes will be stored for sixty (60) days. AES Inc., should be notified within this time frame for a true duplicate analysis.
- If AES Inc., did not conduct the sampling, the reported airborne concentration was derived based on information provided by the client. Under these circumstances, the air concentration data is supplied solely for the convenience of the client.
- The report relates only to items tested. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of AES Inc.
- The liability of Athenica Environmental Services Inc. with respect to the services charged, shall in no event exceed the amount of the invoice.


ATHENICA

ENVIRONMENTAL SERVICES INC.

TEL (718) 764-7490

FAX (718) 764-4885

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: New York Environmental

LABORATORY ID #: T02-01-002

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

 AVERAGE G.O. AREA (mm²): 0.009936

PROJECT: P.S. 89M

DATE OF REPORT: 01/11/02

DATE OF ANALYSIS: 01/11/02

 EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (l)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIVITY (struct./cm ³)	TOTAL ASBESTOS AIR CONC. (struct./cm ³)	TOTAL ASBESTOS FILTER CONC. (struct./mm ²)	AIR CONC. FOR 0.5<S<5µm	AIR CONC. FOR S≥5.0µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST. TYPE SPECIFY
A-7	T02-01-002-010	5 th floor hall o/s room 527	1809	5	0.0497	0.0043	0.0043	20.13	0.0043	<0.0043	Chrys.	NA
A-8	T02-01-002-011	5 th floor in stair #2	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-9	T02-01-002-012	4 th floor in stair #1	1809	5	0.0497	0.0043	0.0086	40.26	0.0086	<0.0043	Chrys.	NA
A-10	T02-01-002-013	In room 428	1800	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-11	T02-01-002-014	In room 406	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-12	T02-01-002-015	4 th floor hall o/s room 415	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA

ANALYST

LABORATORY DIRECTOR

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ATHENICA
ENVIRONMENTAL SERVICES INC.

Tel. (718) 784-7499
Fax. (718) 784-8825

CLIENT: New York Environmental

LABORATORY ID #: T02-01-002

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

AVERAGE G.O. AREA (mm²): 0.009936

PROJECT: P.S. 89M

DATE OF REPORT: 01/11/02

DATE OF ANALYSIS: 01/11/02

EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (l)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIV. (attocg/cm ³)	TOTAL ASBESTOS AIR CONC. (attocg/cm ³)	TOTAL ASBESTOS FILTER CONC. (attocg/cm ³)	AIR CONC. FOR STRUCT. 0.5SS < 5µm	AIR CONC. FOR STRUCT. ≥ 5.0µm	ASBEST. TYPE CHRVS.	AMPHIB. ASBEST. TYPE SPECIFY
A-13	T02-01-002-016	3 rd floor in stair #3	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-14	T02-01-002-017	3 rd floor hall o/s room 301	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-15	T02-01-002-018	3 rd floor in Gym	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-16	T02-01-002-019	3 rd floor hall o/s Gym	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-17	T02-01-002-020	2 nd floor hall o/s room 201	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-18	T02-01-002-021	In room 204	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA

Emilia A. Hesse

ANALYST

Emilia A. Hesse

LABORATORY DIRECTOR

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ATHENICA

ENVIRONMENTAL SERVICES INC.

 Tel. (718) 784-7400
 Fax. (718) 784-4085

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: New York Environmental

LABORATORY ID #: T02-01-002

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

 AVERAGE G.O. AREA (mm²): 0.009936

PROJECT: P.S. 89M

DATE OF REPORT: 01/11/02

DATE OF ANALYSIS: 01/11/02

 EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (ft ³)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIVITY (struct./cm ³)	TOTAL ASBESTOS AIR CONC. (struct./cm ³)	TOTAL ASBESTOS FILTER CONC. (air./mm ²)	AIR CONC. FOR STRUCT. 0.55S-5µm	AIR CONC. FOR STRUCT. ≥5.0µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST. TYPE SPECIFY
A-19	T02-01-002-022	2 nd floor hall o/s room 226	1800	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-20	T02-01-002-023	2 nd floor in stair #2	1800	5	0.0497	0.0043	0.0086	40.26	0.0086	<0.0043	Chrys.	NA
A-21	T02-01-002-024	1 st floor hall o/s room 127	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-22	T02-01-002-025	In cafeteria	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-23	T02-01-002-026	1 st floor hall o/s stair #3	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-24	T02-01-002-027	1 st floor in stair #3	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA

ANALYST

LABORATORY DIRECTOR

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NEW YORK ENVIRONMENTAL

AIR MONITORING & CHAIN OF CUSTODY RECORD

PAGE 1 OF 3

CLIENT		PROJECT NO.		DATE		PCM		CASSSETTE MFG. & LOT		TEM		BACKGROUND		PRE-ABATE		TURNAROUND		TIME	
NYCSCA - PS 89M		2089-14528		1-10-02		NO. 2089-410FKA		OTHER		DURING-ABATE		POST-ABATE		IMMEDIATE		6 HR			
ADDRESS		201 Warren St. NY. N.Y.		1st Floor to 6th Fl.		WORK AREA		ROTOMETER NO.		FLOW		BEGIN TIME		END TIME		TOTAL MINUTES		TOTAL VOL (L)	
SAMPLE NO.		SAMPLE LOCATION		FLOW B/E (L)		FLOW AVG (L)		FIBERS/100		FIBERS (FICC)									
A-1	6th Fl. in stair #3	9	9	1535	1857	202	1818	<20.13	<0.0043										
A-2	6th Fl. in boiler RM	9	9	1536	1858	202	1818	<20.13	<0.0043										
A-3	6th Fl. elevator RM	9	9	1538	1859	201	1809	<20.13	<0.0043										
A-4	6th Fl Fan RM	9	9	1540	1900	200	1800	20.13	0.0043										
A-5	in room 506	9	9	1542	1902	200	1800	<20.13	<0.0043										
A-6	5th Fl. hall o/s RM 507	9	9	1543	1904	201	1809	<20.13	<0.0043										
A-7	5th Fl. hall o/s RM 527	9	9	1544	1905	201	1809	20.13	0.0043										
A-8	5th Fl. in stair #2	9	9	1545	1906	201	1809	<20.13	<0.0043										
A-9	4th Fl. in stair #1	9	9	1547	1908	201	1809	40.26	0.0086										
A-10	in room 428	9	9	1549	1909	200	1800	<20.13	<0.0043										
A-11	in room 406	9	9	1550	1911	201	1809	<20.13	<0.0043										
A-12	4th Fl. hall o/s RM 415	9	9	1551	1912	201	1809	<20.13	<0.0043										
A-13	3rd Fl. in stair #3	9	9	1552	1914	202	1818	<20.13	<0.0043										

RELINQUISHED (PRINT)	SIGNATURE	DATE	TIME	RECEIVED (PRINT)	SIGNATURE	DATE	TIME
A. P. G. W. C.	<i>[Signature]</i>	1-10	2000	E. S. S.	<i>[Signature]</i>	01/10/02	21:00
M. Abraham	<i>[Signature]</i>	1-10-02	2100				
ANALYST (PRINT)		DATE	TIME	COMMENTS			
E.S.		04/11/02	05:30	FAX (516) 944-9507			

TWO n no

NEW YORK ENVIRONMENTAL

AIR MONITORING & CHAIN OF CUSTODY RECORD

PAGE 2 OF 3

CLIENT		PROJECT NO.		DATE		PCIM		CASSETTE MFG. & LOT NO.		OTHER		BACKGROUND		PRE-ABATE		TURNAROUND		TIME	
NYCSCA - PS89M		1089-14528		1-10-02				NO. ENVEP. 410RKA											
ADDRESS		201 Warren St. NY. NY.		1st Fl. to 6th Floor		WORK AREA		ROTO METER NO.		Ambient									
NYE QC		SAMPLE NO.		SAMPLE LOCATION		FLOW		FLOW		FLOW		BEGIN		END		TOTAL		FIBERS/100	
NO		AP (1-10-02)		3rd Fl. hall o/s Am 301		9/9		9/9		9/9		1553		1915		1818		<0.0043	
A-14		A-15		3rd Fl. hall o/s Gym		9/9		9/9		9/9		1555		1916		1809		<0.0043	
A-16		A-17		3rd Fl. in Gym		9/9		9/9		9/9		1557		1918		1809		<0.0043	
A-18		A-19		2nd Fl. hall o/s Am 201		9/9		9/9		9/9		1559		1920		1809		<0.0043	
A-20		A-21		1st Room 204		9/9		9/9		9/9		1600		1921		1809		<0.0043	
A-22		A-23		2nd Fl. hall o/s Am 226		9/9		9/9		9/9		1602		1922		1800		<0.0043	
A-24		FBC-1		2nd Fl. in stair #2		9/9		9/9		9/9		1603		1923		1800		40.26	
FBC-2		FBC-3		1st Fl. hall o/s Am 127		9/9		9/9		9/9		1606		1927		1809		<0.0043	
FBC-4		FBC-5		in cafeteria		9/9		9/9		9/9		1607		1928		1809		<0.0043	
FBC-6		FBC-7		1st Fl. hall o/s stair #3		9/9		9/9		9/9		1608		1930		1818		<0.0043	
FBC-8		FBC-9		1st Fl. in stair #3		9/9		9/9		9/9		1609		1931		1818		<0.0043	
FBC-10		FBC-11		Field Blank-1		---		---		---		---		---		---		---	
FBC-12		FBC-13		Field Blank-2		---		---		---		---		---		---		---	

RELINQUISHED (PRINT)		SIGNATURE		DATE		TIME		RECEIVED (PRINT)		SIGNATURE		DATE		TIME	
M. P. P. P.		[Signature]		1-10		2000		E. Siadig		[Signature]		01/10/02		21:00	
M. A. Abraham		[Signature]		1-10-02		2100		RECEIVED (PRINT)		[Signature]		DATE		TIME	
ANALYST (PRINT)		[Signature]		DATE		TIME		COMMENTS		[Signature]		DATE		TIME	
E.S.		[Signature]		01/11/02		09:30		[Signature]		[Signature]		DATE		TIME	
FIBERS/100		FIBERS/100		FIBERS/100		FIBERS/100		FIBERS/100		FIBERS/100		FIBERS/100		FIBERS/100	

NY ENVIRONMENTAL

5169449507

15:15

01/11/2002

NEW YORK ENVIRONMENTAL

AIR MONITORING & CHAIN OF CUSTODY RECORD

PAGE 3 OF 3

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