



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

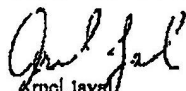
Re: Summary of Wipe and Air Sampling @
Public School 150 M
334 Greenwich Street
New York, New York 10013
ATC Project No. 15-19125-0289

Dear Mr. Orlan:

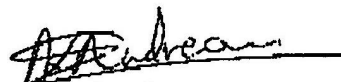
At your request, ATC Associates Inc. (ATC) is pleased to provide you with the general summary of results for the wipe and air sampling performed at PS 150M. All the results were tabulated in the attached tables.

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 Javal
Project Manager

Reviewed by:


Andreas C. Andreou
Senior Project Manager

PUBLIC SCHOOL 150M ASBESTOS SAMPLING					
Date Collected	TEM AMBIENT AIR TESTING (Structure/mm ³)		SETTLED DUST BULK SAMPLING FOR ASBESTOS		BULK SAMPLING FOR ASBESTOS
	# of Sample	Results of TEM Asbestos Analysis (structure/mm ³)	# of Sample	Results of Settled Dust Bulk Sample for Asbestos	
09/21/01	9	No structures detected	21	Settled dust samples were collected using 3M scotch tape and a glass slide. Two (2) out of the collected twenty-one (21) dust samples were found to contain chrysotile asbestos fibers.	
11/29/01	15	No structures detected			
11/30/01	15	No structures detected			
12/01/01	15	No structures detected			
12/02/01	15	No structures detected			
01/21/02	9	No structures detected			
01/22/02	9	No structures detected			
01/23/02	7	No structures detected			
01/24/02	7	No structures detected			
01/25/02	7	No structures detected			
01/26/02	7	No structures detected			
01/27/02	7	No structures detected			
01/28/02	7	No structures detected			
01/29/02	7	No structures detected			
01/30/02	7	No structures detected			
01/31/02	7	No structures detected			
02/01/02	7	No structures detected			
02/02/02	7	No structures detected			
02/03/02	7	No structures detected			
02/04/02	7	No structures detected			
02/05/02	7	No structures detected			
02/06/02	7	No structures detected			

PUBLIC SCHOOL 150 M RESPIRABLE PARTICULATES TESTING

Date	Type of sampling	No. of readings	Number of indoor readings >40 to <65 $\mu\text{g}/\text{m}^3$ (24 hrs average)	Number of indoor readings >65 $\mu\text{g}/\text{m}^3$ (24 hrs average)	Range of indoor respirable particulates concentration ($\mu\text{g}/\text{m}^3$)	Average indoor respirable particulates concentration ($\mu\text{g}/\text{m}^3$)	Range of outdoor respirable particulates concentration ($\mu\text{g}/\text{m}^3$)	Average outdoor respirable particulates concentration ($\mu\text{g}/\text{m}^3$)
11/29/01	Direct Readings	30	8	0	15 - 47	30	45	45
11/30/01	Direct Readings	31	2	28	61 - 84	73	85 - 89	88
12/01/01	Direct Readings	34	25	0	16 - 50	45	28 - 42	35
12/02/01	Direct Readings	34	17	0	36 - 62	44	48 - 50	49
12/13/02	Direct Readings	35	0	0	19 - 37	24	32 - 35	34
01/16/02	Direct Readings	23	9	0	12 - 59	34	19 & 58	38
01/17/02	Direct Readings	22	2	0	12 - 44	28	51	51
01/18/02	Direct Readings	26	12	0	32 - 59	41	38 - 42	40
01/15/02 to 01/16/02	MEM 124-hour Data				9.72 and 13.2			
01/20/02 to 01/21/02	Dust Trk (24-hour Data)				19 and 32			
01/22/02	(24-hour Data)				12.5 and 16.7			
01/23/02 - 01/24/02	Dust-Trk (24-hours Data)				17 and 29			
01/25/02 - 01/26/02	MEM				4.61 and 9.19			
01/27/02	(24-hours Data)				18 - 56	44	69	69
01/28/02	Direct Readings	28	18	0	21 - 75	29	25	25
01/29/02	Direct Readings	38	0	0	15 - 41	29	10	10
01/30/02	Direct Readings	37	1	0	30 - 46	40	31 - 40	36
01/31/02	Direct Readings	40	19	0	25 - 100	58	81 - 100	65
02/01/02	Direct Readings	40	20	11	29 - 46	33	37 - 76	61
02/02/02	Direct Readings	40	7	0	23 - 58	41	28 - 54	31
02/03/02	Direct Readings	40	13	0	30 - 44	35	17 - 49	28
02/04/02	Direct Readings	40	1	0	20 - 42	31	28 - 44	41
02/05/02	Direct Readings	40	2	0	28 - 51	41	38 - 45	41
02/06/02	Direct Readings	40	17	0	4 - 33	9	4 - 6	5
02/07/02	Direct Readings	40	0	0	4 - 29	8	4 - 6	4
02/08/02	Direct Readings	40	0	0	12 - 32	23	16 - 44	25
02/09/02	Direct Readings	40	0	0	6 - 23	15	7 - 19	12
02/10/02	Direct Readings	40	0	0	16 - 37	24	30 - 42	32

PUBLIC SCHOOL 150 N																
LEAD-IN-DUST-WIPE SAMPLE			MERCURY		PCB'S AND CYANIDE		SILICA (RESPIRABLE DUST)		FIBER GLASS AND FUNGAL SPORES		TOXIC ORGANIC COMPOUND (TYOC), AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)		DIOXINS SAMPLES		HYDROCARBONS (HC) AND METALS	
Date	# of Sample	Lead Conc. On Floor (ug/ft ²)	Lead Conc. On Window Sill (ug/ft ²)	Mercury Conc. (ng/m ³)	Concentration	Range of Indoor Conc.	Range of Outdoor Conc.	Results	Indoor Readings	Outdoor Reading	Indoor Surfaces Range of Conc.	Air Plenum Conc.	Indoor Readings	Outdoor Reading	Indoor Readings	Outdoor Reading
11/27/01	58	Readings above guidance level found in the 1st floor corridor (6' window), and 1st floor (over 1st window)	Readings above guidance level found in the 1st floor corridor (6' window), and 1st floor (over 1st window)													
11/27/01	59	Below Guidance Level	Below Guidance Level													
12/01/01	4	Below Guidance Level	Below Guidance Level													

PUBLIC SCHOOL 150 N														
LEAD-IN-DUST-WIPE SAMPLE				MERCURY	PCB'S AND CYANIDE	SILICA (RESPIRABLE DUST)	FIBER GLASS AND FUNGAL SPORES	TOXIC ORGANIC COMPOUND (TVOC), AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)		DOXINS SAMPLES		HYDROCARBONS (HC) AND METALS		
Date	# of Sample	Lead Cont. On Floor (ug/ft ²)	Lead Cont. On Window Sill (ug/ft ²)	Mercury Cont. (ng/m ³)	Concentration	Range of Indoor Conc.	Range of Outdoor Conc.	Results	Indoor Readings	Outdoor Reading	Indoor Surfaces Range of Cont.	Air Plenum Cont.	Indoor Readings	Outdoor Reading
12/02/01														4 air samples (3 indoor and 1 outdoor) for metals were collected. The only metal present in concentrations greater than the limit of detection is chromium (indoor range = 0.0382 - 0.1183 ug/m ³ and outdoor 0.0003 ug/m ³)
12/07/02														3 air samples for hydrocarbons. None of the HCs in the peak were present above the limits of detection.
12/13/04					The PCB wipe results of all 3 samples were below the reporting limits of 7.0 micrograms per sample.						The concentrations on 3 indoor wipe sample for dioxin ranged from 0.00053 to 0.004 ng/m ³ .			
12/15/04				Mercury was not detected in 3 air samples at levels greater than that detected in the limit.										

PUBLIC SCHOOL 150 M													
LEAD-IN-DUST-WIPE SAMPLE				MERCURY	PCB ₁ AND CYANIDE	SILICA (RESPIRABLE DUST)	FIBER GLASS AND FUNGAL SPORES	TOXIC ORGANIC COMPOUND (TVOC), AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)	DIOXINS SAMPLES		HYDROCARBONS (HC) AND METALS		
Date	# of Sample	Lead Conc. On Floor (ug/l ²)	Lead Conc. On Window Sill (ug/l ²)	Mercury Conc. (mg/m ³)	Concentration	Range of Indoor Conc.	Range of Outdoor Conc.	Indoor Readings	Outdoor Reading	Indoor Surfaces Range of Conc.	Air Plenum Conc.	Indoor Readings	Outdoor Reading
8/17/02						2 different samples were collected. Silica was not detected.	Silica = 12.3 micrograms per cubic meter of air. (Outside the Main Entrance)	2 air samples of TVOCs were collected. TVOCs found were: Methylene Chloride (0.0063 to 0.0090 mg/m ³) and Toluene (0.0020 to 0.0026 mg/m ³)	1 air sample of TVOCs was collected. TVOC found was Methylene Chloride (0.0063 mg/m ³)				3 metals were detected in all 3 outdoor air samples.
9/27/02	4	Below Guidance Level	Below Guidance Level	Mercury air samples were not detected in any of the samples at a level greater than in the blank.	The PCB wipe results for the sample and the blank were reported to be below the reporting limit of 2.0 micrograms per sample	Silica was detected in the 2 of the 4 samples. They were found in Room 403 (0.0117 mg/m ³) and Room 402 (0.0147 mg/m ³).	4 sealed dust bulk samples for fiberglass were collected. No fiberglass fiber was detected in all samples.					3 metals: The only metals present at concentrations greater than the limits of detection were chromium, copper, and lead. In all the sample studied and inspections obtained from the outdoor plaza.	11C in None of the 3 air sample for hydrocarbons were present above the limits of detection for the analyses except for benzene (0.24 mg/m ³) found in the 1 st floor lobby.
9/28/02	4	Below Guidance Level	Below Guidance Level		The PCB wipe results for the main sample and the blank sample were below the reporting limit of 2.0 micrograms per sample.			4 sealed dust bulk samples for fiberglass were collected. No fiberglass fiber was detected in all samples.					
9/29/02	4	Below Guidance Level	Below Guidance Level										
9/29/02	7	Below Guidance Level	Below Guidance Level										