NYC 9/11 Public Portal Document

NYC Response

Asbestos Air Sampling Results at Fixed Locations

Sampling Date and Time: 16.00 (9/21/01) to 04.00 (9/22/01)

					PCM by NIOSH 7400		TEM by NIOSH 7402		TEM (AHERA)			
Sampling Date	Sample No.	Sampling Location	Sample Volume	Matrix	f/mm²	f/cc	AF/NAF	Adjusted TEM f/cc	Structures (#) <5μ	Structures (#) >5μ	S/mm²	S~f/cc
9/22/2001	17231	A	720	Air	17.2	0.009	1/6	<0.004	0	0	0	0
9/22/2001	17232	B	720	Air	8.28	0.004	0/8	<0.004	0	0	0	0
9/22/2001	17233	C	720	Air	<7.0	<0.004	0/2	<0.004	3	0	26.87	0.0143
9/22/2001	17236	D	720	Air	12.1	0.006	1/6	<0.004	0	0	<8.89	<0.0048
9/22/2001	17238	E	428	Air	15.29	0.014	0/5	<0.006	1	0	8.89	0..0081
9/22/2001	17239	F	720	Air	8.92	0.005	0/6	<0.004	0	0	<8.89	<0.0048
9/22/2001	17240	F DUP	720	Air	<7.0	<0.004	0/4	<0.004	0	1	8.89	0.0048
9/22/2001	NS	G										
9/22/2001	17234	H	720	Air	<7.0	<0.004	0/2	<0.004	0	0	<8.89	<0.0048
9/22/2001	17235	I	720	Air	<7.0	<0.004	0/7	<0.004	1	1	17.78	0.0095
9/22/2001	17230	J	720	Air	<7.0	<0.004	0/1	<0.004	0	0	<8.89	<0.0048
9/22/2001	17237	K	720	Air	<7.0	<0.004	0/3	<0.004	2	0	17.78	0.0095
9/22/2001	NS	L										
9/22/2001	NS	N										
9/22/2001	NS	M										
9/22/2001	17242	O	720	Air	<7.0	<0.004	0/0	<0.004	0	0	<8.89	<0.0048
9/22/2001	17241	P	720	Air	<7.0	<0.004	0/2	<0.004	0	0	<8.89	<0.0048

Sampling Locations:
A: Intersection of Barclay+West Broadway
B: Intersection of Church+Dey St.
C: Intersection of Liberty+Trinity
D: Intersection of Greenwich+Albany
E: Intersection of Liberty+South End Ave
F: Intersection of Vesey+West St. F DUP
G: Intersection of Church and Duane
H: One Chase Plaza
I: Wall Street+Broadway
J: Corner of West and Warren
K: Corner of Albany and West
N: West Side Highway/ near community college
M: Intersection of Liberty + Broad
O: Pier 25
P: Intersection of Harrison + West

NS: Not sampled
AF/ANF: Asbestos fibers/Non asbestos fibers
Sample volume is below recommended limit of the method
*Structure (S) Roughly equivalent to Fiber (F)
NA: not analyzed due to overloading of particulates
NR: Analysis not requested

ERT: 09/23/01 9.50 AM

NIOSH 7400: Fiber Analysis of Air samples Via NIOSH 7400, Revision 3, Issue 2, 8/15/94

NIOSH 7402: Asbestos Analysis of air samples by Transmission Electron Microscopy

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

Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm2, volume 1200L, for 25MM filter (TEM)

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NYC-WTC_000186259

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NYC Emergency Response
Asbestos Air Sampling Results NYC ER/NJ DEP

		Sampling	Sample		PCM by NIOSH 7400		TEM by NIOSH 7402		TEM (AHERA)			
Date	Sample No.	Location	Volume	Matrix	f/mm^2	f/cc	AF/NAF	Adjusted	<5µ	>5µ	S/mm^2	S-f/cc
								TEM f/cc	S (#)			
9/20/2001	01931	A	480	Air	<7.00	<0.006	0/0	<0.006	0	0	<0.75	<0.0062
9/20/2001	01932	B	480	Air	<7.00	<0.006	0/0	<0.006	0	0	<0.75	<0.0062
9/20/2001	01933	D	432	Air	<7.00	<0.006	0/0	<0.004	0	0	<0.76	<0.0069
9/20/2001	01934	C	720	Air	<7.00	<0.004	0/0	<0.004	0	0	<8.61	<0.0046

coc#04118

PCM: Phase Contrast Microscopy by NIOSH 7400
TEM: Transmission Electron Microscopy (TEM) EPA 40CFR Part 763 (AHERA). Sample volume is below recommended limit of the method.
*Structure (S) Roughly equilvalent to Fiber (F)
Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm^2, Volume 1200L, for 25mm filter (TEM)

Sampling Location	Sampling Times
A: Liberty Park	11:00 (9/20/01)-19.00 (9/20/01)
B: CITGO terminal	12:45 (9/20/01)-20.45 (9/20/01)
C: FMC Terminal	11.50 (9/20/01)-19.50 (9/20/01)
D: Shell Terminal	13.15 (9/20/01) - 01:15 (9/21/01)

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NYC Response
Asbestos Bulk Sample Analysis Results

Date Sampled	Sample No.	Sampling Location	Matrix	PLM Results % Asbestos	Comments
9/21/2001	01736	I-Beam Tower 2	Dust	ND	
PLM Polarized Light Microscope by Method NY State ELAP 198.1					

ND: Not Detected

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NYC Response

Asbestos Air Sampling Results for Freshkill Landfill

Sampling Date and Time:

					PCM by NIOSH 7400		TEM by NIOSH 7402		TEM (AHERA)			
Sampling		Sampling	Sample		f/mm²	f/cc	AF/NAF	Adjusted	Structures (#)		S/mm²	S~f/cc
Date	Sample No.	Location	Volume	Matrix				TEM f/cc	<5µ	>5µ		
9/22/2001	01611	#1	599	Air	<7	<0.004	0/0	<0.004	0	0	<7.75	<0.005
9/22/2001	01612	#2	666	Air	<7	<0.004	0/0	<0.004	0	0	<7.75	<0.0045
9/22/2001	01613	#3	373	Air	<7	<0.007	0/0	<0.007	0	0	<7.75	<0.008
9/22/2001	01614	#4	679	Air	<7	<0.004	0/0	<0.004	0	0	<7.75	<0.0044
9/22/2001	01615	#5	676	Air	<7	<0.004	0/0	<0.004	0	0	<7.75	<0.0044
9/22/2001	01616	#6	679	Air	<7	<0.004	0/0	<0.004	0	0	<7.75	<0.0044
9/22/2001	01617	#7	681	Air	<7	<0.004	0/0	<0.004	0	0	<7.75	<0.0044
9/22/2001	01618	#8	677	Air	<7	<0.004	0/0	<0.004	0	0	<7.75	<0.0044
9/22/2001	01619	#9	451	Air	<7	<0.006	0/0	<0.006	0	0	<7.75	<0.0066
9/22/2001	01620	#10	393	Air	<7	<0.007	0/0	<0.007	0	0	<7.75	<0.0076

NS: Not sampled
AF/ANF: Asbesos fibers/Non asbesos fibers
Sample volume is below recommended limit of the method:
*Structure (S) Roughly equilvalent to Fiber (F)
NA: not analyzed due to overloading of particulates

NIOSH 7400: Fiber Analysis of Air samples Via NIOSH 7400, Revision 3, Issue 2, 8/15/94
NIOSH 7402: Asbestos Analysis of air samples by Transmission Electron Microscopy
Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) EPA 40CFR Part 763 (AHERA)
Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm2, volume 1200L, for 25MM filter (TEM)

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