

NYC Response
Asbestos Air Sampling Results at Fixed Locations
Sampling Date and Time: 11/08/01 1201 to 2400

Data Validation Date: 11/10/01

Sampling Date	Sample No.	Sampling Location	Sample Volume*	Matrix	PCM by NIOSH 7400		TEM (AHERA)			
					f/mm ²	f/cc	Structures (#)		S/mm ²	S-f/cc**
							0.5 μ - 5 μ	5 μ		
11/08/01	RST-00434	L	720	Air	11.46	0.006	0	0	<8.82	<0.0047
11/08/01	RST-00435	M1	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/08/01	RST-00436	N	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/08/01	RST-00437	J	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/08/01	RST-00448	F	720	Air	11.46	0.006	0	0	<8.82	<0.0047
11/08/01	RST-00439	Q	720	Air	7.64	0.004	0	0	<8.82	<0.0047
11/08/01	RST-00440	A	720	Air	11.46	0.006	0	0	<8.82	<0.0047
11/08/01	RST-00441	B	720	Air	19.11	0.010	0	0	<8.82	<0.0047
11/08/01	RST-00442	C1	720	Air	7.64	0.004	0	0	<8.82	<0.0047
11/08/01	RST-00443	H	41	Air	<7.0	<0.066	0	0	<7.94	<0.0745
11/08/01	RST-00444	I	720	Air	12.74	0.007	0	0	<8.82	<0.0047
11/08/01	RST-00445	I-Duplicate	720	Air	15.29	0.008	0	0	<8.82	<0.0047
11/08/01	RST-00447	K	720	Air	10.19	0.005	0	0	<8.82	<0.0047
11/08/01	RST-00448	T	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/08/01	RST-00449	U	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/08/01	RST-00450	V	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/08/01	RST-00451	S	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/08/01	RST-00452	P	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/08/01	RST-00453	E	720	Air	10.19	0.005	0	0	<8.82	<0.0047
11/08/01	RST-00446	D	720	Air	7.64	0.004	0	0	<8.82	<0.0047
11/08/01	FB110901	Field Blank	0	Air	<7.0	n/a	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
11/08/01	TB110901	Trip Blank	0	Air	<7.0	n/a	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾

Sampling Locations:

A: NE corner of West Broadway & Barclay
 B: SE corner of Church & Dey St.
 C: Trinity (a.k.a. Church) & Liberty
 C1: SW corner of Broadway & Liberty St.
 D: East end of Albany St. at Greenwich St.
 E: Western end of Liberty St. at South End Ave
 F: Northern median strip of Vesey & West St
 G: Church and Duane St.
 H: South side of Chase Manhattan Plaza at Pine St.
 I: SE corner of Wall St. & Broadway
 J: NE corner of Warren & West St.
 K: West St. & Albany in median strip
 L: On walkway toward North Park rec area (north side of Suyvesant High), access to TAGA bus area

M: Western end of Harrison St. at West St.
 (on tree next to bulkhead)
 M1 : West St. - 50 yards south of Harrison St. at bulkhead
 N: South side of Pier 25 (next to volleyball ct)
 P: NE corner of South End Ave. & Albany
 Q: Barclay & West St. (center island) in proximity to USCG command post
 R: TAGA Bus Location
 S: Rector & South End
 T: Pier 6 Heliport
 U: Pier 6 Exit 2
 V: Pier 6 Bus Sign

Key:

* Sample volume (liters) is below recommended limit for the TEM method; volume is based on pump reading
 ** Structure (S) is roughly equivalent to fiber (f)
 *** Chrysotile
 NA⁽¹⁾ - Not analyzed due to overloading of particulates
 NA⁽²⁾ - Not analyzed for TEM
 n/a - Not applicable
 NR - Not requested
 NS - Sample not submitted

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

FL-11-08-01-pm

NYC Response

Asbestos Air Sampling Results at Fixed Locations

Sampling Date and Time: 11/09/01 0001 to 1200

Data Validation Date: 11/10/01

Sampling Date	Sample No.	Sampling Location	Sample Volume*	Matrix	PCM by NIOSH 7400		TEM (AHERA)			
					f/mm ²	f/cc	Structures (#)		S/mm ²	S-f/cc**
							0.5μ - 5μ	5μ		
11/09/01	RST-00454	L	720	Air	8.92	0.005	0	0	<8.82	<0.0047
11/09/01	RST-00455	M1	708	Air	<7.0	<0.004	0	0	<8.82	<0.0048
11/09/01	RST-00456	N	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00457	J	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00458	F	720	Air	8.28	0.004	0	0	<8.82	<0.0047
11/09/01	RST-00459	A	720	Air	8.92	0.005	0	0	<8.82	<0.0047
11/09/01	RST-00460	B	720	Air	17.83	0.0095	1***	0	8.82	0.0047
11/09/01	RST-00461	C1	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00462	H	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00463	I	720	Air	11.46	0.006	0	0	<8.82	<0.0047
11/09/01	RST-00464	D	684	Air	<7.0	<0.004	1***	0	8.82	0.0050
11/09/01	RST-00465	K	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00466	T	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00467	T-Duplicate	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00468	U	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00469	V	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00470	S	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00471	P	720	Air	<7.0	<0.004	0	0	<8.82	<0.0047
11/09/01	RST-00472	E	720	Air	7.64	0.004	0	0	<8.82	<0.0047
11/09/01	RST-00473	Q	720	Air	7.64	0.004	0	0	<8.82	<0.0047
11/09/01	FB110901	Field Blank	0	Air	<7.0	n/a	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
11/09/01	TB110901	Trip Blank	0	Air	<7.0	n/a	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾

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Key:

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

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

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

FL-11-09-01-am

NYC Response

Asbestos Air Sampling Results for Staten Island Landfill

Sampling Date and Times: 11/08/01 0657 to 11/08/01 1948

Data Validation Date: 11/10/2001

Sampling Date	Sample No.	Sampling Location	Sample Volume*	Matrix	PCM by NIOSH 7400		TEM (AHERA)			
					f/mm ²	f/cc	Structures (#)		S/mm ²	S-f/cc**
11/08/01	LF00398	P-1	730	Air	<7.0	<0.004	0	0	<8.89	<0.0047
11/08/01	LF00399	P-2	720	Air	<7.0	<0.004	0	0	<8.89	<0.0048
11/08/01	LF00400	P-3	720	Air	<7.0	<0.004	0	0	<8.89	<0.0048
11/08/01	LF00401	P-4	717	Air	<7.0	<0.004	2***	0	17.78	0.0095
11/08/01	LF00402	P-5	720	Air	<7.0	<0.004	2***	1***	26.67	0.0143
11/08/01	LF00403	P-6	720	Air	<7.0	<0.004	0	0	<8.89	<0.0048
11/08/01	LF00404	P-7	720	Air	<7.0	<0.004	0	0	<8.89	<0.0048
11/08/01	LF00405	P-8	674	Air	<7.0	<0.004	0	0	<8.00	<0.0046
11/08/01	LF00406	S-9A	720	Air	<7.0	<0.004	1***	0	8.89	0.0048
11/08/01	LF00407	S-9B	728	Air	<7.0	<0.004	0	0	<8.89	<0.0047
11/08/01	LF00408	S-10A	720	Air	<7.0	<0.004	0	0	<8.89	<0.0048
11/08/01	LF00409	S-10B	720	Air	<7.0	<0.004	1***	0	8.89	0.0048
11/08/01	LF00410	W-11	720	Air	14.01	0.007	1***	0	8.89	0.0048
11/08/01	LF00411	W-12A	542	Air	<7.0	<0.005	1***	0	8.00	0.0057
11/08/01	LF00412	W-12B	800	Air	<7.0	<0.003	0	0	<10.00	<0.0048
11/08/01	LF00413	B-13	720	Air	<7.0	<0.004	0	0	<8.89	<0.0048
11/08/01	LF00414	B-14	720	Air	<7.0	<0.004	1***	0	8.89	0.0048
11/08/01	LF00415	T15	727	Air	<7.0	<0.004	0	0	<8.89	<0.0047
11/08/01	LF00416	T16	722	Air	<7.0	<0.004	5***	0	44.44	0.0237
11/08/01	LF00417	Lot Blank	0	Air	<7.0	n/a	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
11/08/01	LF00418	Trip Blank	0	Air	<7.0	n/a	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾

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

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

WTC FK-11-08-01am

NYC Response

Asbestos Air Sampling Results for Staten Island Landfill

Sampling Date and Times: 11/08/01 1900 to 11/09/01 0828

Data Validation Date: 11/10/01

Sampling Date	Sample No.	Sampling Location	Sample Volume*	Matrix	PCM by NIOSH 7400		TEM (AHERA)			
					f/mm ²	f/cc	Structures (#)		S/mm ²	S-f/cc**
11/08/01	LF00419	P-1	720	Air	<7.0	<0.004	2***	0	17.5	0.0094
11/08/01	LF00420	P-2	720	Air	<7.0	<0.004	0	0	<8.75	<0.0047
11/08/01	LF00421	P-3	720	Air	<7.0	<0.004	0	0	<8.75	<0.0047
11/08/01	LF00422	P-4	720	Air	<7.0	<0.004	0	0	<8.75	<0.0047
11/08/01	LF00423	P-5	720	Air	<7.0	<0.004	0	0	<8.75	<0.0047
11/08/01	LF00424	P-6	720	Air	<7.0	<0.004	0	0	<8.75	<0.0047
11/08/01	LF00425	P-7	720	Air	<7.0	<0.004	0	0	<8.75	<0.0047
11/08/01	LF00426	P-8	720	Air	<7.0	<0.004	0	0	<8.75	<0.0047
11/08/01	LF00427	S-9A	720	Air	<7.0	<0.004	1***	1***	17.5	0.0094
11/08/01	LF00428	S-9B	720	Air	<7.0	<0.004	2***	0	17.5	0.0094
11/08/01	LF00429	S-10A	720	Air	<7.0	<0.004	0	0	<8.75	<0.0047
11/08/01	LF00430	S-10B	720	Air	<7.0	<0.004	2***	0	17.5	0.0094
11/08/01	LF00431	W-11	720	Air	25.48	0.014	0	0	<8.75	<0.0047
11/08/01	LF00432	W-12A	720	Air	15.29	0.008	NA ⁽¹⁾	NA ⁽¹⁾	NA ⁽¹⁾	NA ⁽¹⁾
11/08/01	LF00433	W-12B	720	Air	<7.0	<0.004	0	0	<8.75	<0.0047
11/08/01	LF00434	B-13	720	Air	<7.0	<0.004	1***	0	8.75	0.0047
11/08/01	LF00435	B-14	720	Air	<7.0	<0.004	0	0	<8.75	<0.0047
11/08/01	LF00436	T15	720	Air	10.19	0.005	3***	1***	35	0.0187
11/08/01	LF00437	T16	720	Air	<7.0	<0.004	NA ⁽¹⁾	NA ⁽¹⁾	NA ⁽¹⁾	NA ⁽¹⁾
11/08/01	LF00438	Lot Blank	0	Air	<7.0	n/a	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
11/08/01	LF00439	Trip Blank	0	Air	<7.0	n/a	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾

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

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

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

FK-11-08-01pm

NYC Response

Asbestos Air Sampling Results for Staten Island Landfill

Sampling Date and Times: 11/09/01 0719 to 2012

Data Validation Date: 11/10/01

Sampling Date	Sample No.	Sampling Location	Sample Volume*	Matrix	PCM by NIOSH 7400		TEM (AHERA)			
					f/mm ²	f/cc	Structures (#)		S/mm ²	S-f/cc**
11/09/01	LF00440	P-1	720	Air	<7.0	<0.004	1***	0	8.89	0.0048
11/09/01	LF00441	P-2	697	Air	<7.0	<0.004	0	0	<8.89	<0.0049
11/09/01	LF00442	P-3	698	Air	<7.0	<0.004	0	0	<8.89	<0.0049
11/09/01	LF00443	P-4	692	Air	<7.0	<0.004	0	0	<8.89	<0.0049
11/09/01	LF00444	P-5	696	Air	<7.0	<0.004	0	0	<8.89	<0.0049
11/09/01	LF00445	P-6	698	Air	<7.0	<0.004	0	0	<8.89	<0.0049
11/09/01	LF00446	P-7	679	Air	<7.0	<0.004	0	0	<8.00	<0.0045
11/09/01	LF00447	P-8	698	Air	<7.0	<0.004	1***	0	8.89	0.0049
11/09/01	LF00448	S-9A	720	Air	<7.0	<0.004	5***	2***	62.22	0.0333
11/09/01	LF00449	S-9B	720	Air	<7.0	<0.004	2***	0	17.78	0.0095
11/09/01	LF00450	S-10A	705	Air	8.28	0.0045	0	0	<8.89	<0.0049
11/09/01	LF00451	S-10B	703	Air	<7.0	<0.004	2***	1***	26.67	0.0146
11/09/01	LF00452	W-11	694	Air	<7.0	<0.004	6***	0	53.33	0.0296
11/09/01	LF00453	W-12A	720	Air	8.92	0.005	NA ⁽¹⁾	NA ⁽¹⁾	NA ⁽¹⁾	NA ⁽¹⁾
11/09/01	LF00454	W-12B	670	Air	<7.0	<0.004	2***	1***	24	0.0138
11/09/01	LF00455	B-13	694	Air	<7.0	<0.004	0	0	<8.89	<0.0049
11/09/01	LF00456	B-14	694	Air	<7.0	<0.004	1***	0	8.89	0.0049
11/09/01	LF00457	T15	720	Air	<7.0	<0.004	NA ⁽¹⁾	NA ⁽¹⁾	NA ⁽¹⁾	NA ⁽¹⁾
11/09/01	LF00458	T16	296	Air	<7.0	<0.009	10***	0	80	0.1041
11/09/01	LF00459	Lot Blank	0	Air	<7.0	n/a	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
11/09/01	LF00460	Trip Blank	0	Air	<7.0	n/a	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾

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WTC FK-11-09-01am