

028



AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: Warren & Panzer Engineers, P.C.
LABORATORY ID #: T02-09-110
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.E.
AVERAGE G.O. AREA (μm^2): 0.013838

PROJECT: NYC DEP, W. Broadway/Murray/Warren
DATE OF REPORT: 09/29/02
DATE OF ANALYSIS: 09/29/02
EFFECTIVE FILTER AREA (mm^2): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (l)	G.O. % ANALYZED	AREA ANALYZED (mm^2)	ANALYT. SENSITIV. ($\mu\text{g}/\text{cm}^2$)	TOTAL ASBESTOS AIR CONC. ($\mu\text{g}/\text{cm}^3$)	TOTAL ASBESTOS FILTER CONC. ($\mu\text{g}/\text{mm}^2$)	AIR CONC. FOR STRUCT. 0.555-5 μm	AIR CONC. FOR STRUCT. 5-25.0 μm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST. TYPE SPECIFY
01	T02-09-110-2635	W. Broadway side	1440	4	0.0554	0.0048	<0.0048	<18.07	NA	NA	NA	NA
02	T02-09-110-2636	W. Broadway side - corner Murray	1440	4	0.0554	0.0048	<0.0048	<18.07	NA	NA	NA	NA
03	T02-09-110-2637	Warren St. - St. edge @ #62	1440	4	0.0554	0.0048	<0.0048	<18.07	NA	NA	NA	NA
04	T02-09-110-2638	Perimeter - to work area N	1440	4	0.0554	0.0048	<0.0048	<18.07	NA	NA	NA	NA
05	T02-09-110-2639	Perimeter - to work area W	1440	4	0.0554	0.0048	<0.0048	<18.07	NA	NA	NA	NA

E. Sioukri

ANALYST
E. Sioukri

[Signature] For S.D.
LABORATORY DIRECTOR
Spiro Dongaris

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.

08/30/2002 12:45 FAX 7187844085

029



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CLIENT #	LAB. ID #	LOCATION	VOLUME (ft)	G.O. 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. 0.5 ≤ S ≤ 5 μm	AIR CONC. FOR STRUCT. S ≥ 5.0 μm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST. TYPE SPECIFY
08	T02-09-110-2640	Perimeter -- corner 61 Warren % W. Broadway	1440	4	0.0554	0.0048	<0.0048	<18.07	NA	NA	NA	NA
09	T02-09-110-2641	St. -- 61 W. Broadway/Warren -- 75	1440	4	0.0554	0.0048	<0.0048	<18.07	NA	NA	NA	NA
10	T02-09-110-2642	73-71 W Broadway St. perimeter	1440	4	0.0554	0.0048	<0.0048	<18.07	NA	NA	NA	NA
11	T02-09-110-2643	73-71 W Broadway St. perimeter	1440	4	0.0554	0.0048	<0.0048	<18.07	NA	NA	NA	NA
12	T02-09-110-2644	73-71 W Broadway St. perimeter	1440	4	0.0554	0.0048	<0.0048	<18.07	NA	NA	NA	NA

E. Sioukri

ANALYST
E. Sioukri

[Signature] P.O. S.O.
LABORATORY DIRECTOR
Spiro Dongaris

LABORATORY CERTIFICATION NUMBERS: NVLAP 181958, ELAP 18955

- Athenica Environmental Services Inc. (AES), is responsible only for information pertaining to samples taken by its employees.
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09/30/2002 12:45 FAX 7187844085

225 East 45th Street
New York, NY 10017
(212) 922-6077
Fax (212) 922-0690

WARREN & PANZER ENGINEERS, P. C. AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

PAGE ____ OF ____

P.O. _____

CLIENT: NYC DEP.

W&P FILE #: 1079 0201

PROJECT: ROOF FANS

LABORATORY: ATHEJCA

CONTACT: MERENGA

LOCATION: BROADWAY / MURRAY

ANALYSIS METHOD: PCM TEM TEM
circle one 7400 AHERA EPA LEVEL II

TECHNICIAN: J. P. ...

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START STOP	TIME ON OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (lb./cc.)
01	W. BROADWAY SIDE - CURB	3	1	8	18:40 21:40	180	1440	
02	W. BROADWAY SIDE - CURB	3	1	8	18:42 21:42	180	1440	
03	W. BROADWAY ST - ST. EDGE - @ #61 -	3	1	8	18:43 21:43	180	1440	
04	PROMETER - TO WORK AREA - W -	3	1	8	18:45 21:45	180	1440	
05	PROMETER - TO UNIT AREA - W -	3	1	8	18:46 21:46	180	1440	
06	FIELD BLANK	1	1	—	—	—	—	—
07	FIELD BLANK	1	1	—	—	—	—	—

COMMENTS:

T02 09-110

SAMPLE BY: S. B... DATE: 09-27
SIGNATURE: S. B...
RELEASED BY: S. B... DATE: 09-27
SIGNATURE: S. B...
RECEIVED BY: A. CHISGAL DATE: 9/29/02
SIGNATURE: Alex Chisgal

SAMPLE TYPE CODES	
1 - Blank	5 - Final Clearance (inside)
2 - Pre-Abatement	6 - Final Clearance (outside)
3 - During Abatement	7 - Personal
4 - During Glove Bag Removal	8 - Background

SEE REVERSE RMP FOR ADDITIONAL INFORMATION

WARREN & PANZER ENGINEERS, P. C.
AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

P.O. _____

W&P FILE #: 1079 02 c1

LABORATORY: ATHLETIC

CONTACT: in abla.

ANALYSIS METHOD:	PCM	TEM	TEM
circle one	7400	AHERA	EPA LEVEL 1

TECHNICIAN - 1 *Benn*

[illegible]

COMMENTS:

T02-09-110

SAMPLE BY: <u>SB</u>	DATE: <u>09-27</u>
SIGNATURE: <u>[Signature]</u>	
RELEASED BY: <u>SB</u>	DATE: <u>09-27</u>
SIGNATURE: <u>[Signature]</u>	
RECEIVED BY: <u>A. CAGAN</u>	DATE: <u>9/29/0</u>
SIGNATURE: <u>[Signature]</u>	

SAMPLE TYPE CODES	
1 - Blank	5 - Final Clearance (inside)
2 - Pre-Abatement	6 - Final Clearance (outside)
3 - During Abatement	7 - Personal
4 - During Glove Bag Removal	8 - Background

SEE REVERSE SIDE FOR ANALYSIS

09/30/2002 12:46 FAX 7187814055