

**ATHENICA**

ENVIRONMENTAL SERVICES INC.

Tel. (718) 784-7490

Fax. (718) 784-4085

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: Warren & Panzer Engineers, P.C.

LABORATORY ID #: T02-11-060

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

AVERAGE G.O. AREA (mm²): 0.013433

PROJECT: NYC DEP, 100 Church Street

DATE OF REPORT: 11/12/02

DATE OF ANALYSIS: 11/12/02

EFFECTIVE FILTER AREA (mm²): 385**LABORATORY RESULTS**

CLIENT #	LAB. ID #	LOCATION	VOLUME (ft)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIV. (struct./cm ²)	TOTAL ASBESTOS AIR CONC. (struct./cm ³)	TOTAL ASBESTOS FILTER CONC. (air./mm ²)	AIR CONC. FOR STRUCT. 0.555-5.0µm	AIR CONC. FOR STRUCT. 5.25-10µm	ASBEST. TYPE CMNYS.	AMPHIB. ASBEST. TYPE SPECIFY
01	T02-11-060-4005	On set back by entrance	1800	4	0.0537	0.0040	<0.0040	<18.61	NA	NA	NA	NA
02	T02-11-060-4006	On set back north	1800	4	0.0537	0.0040	<0.0040	<18.61	NA	NA	NA	NA
03	T02-11-060-4007	On set back east	1800	4	0.0537	0.0040	<0.0040	<18.61	NA	NA	NA	NA
04	T02-11-060-4008	On set back west	1800	4	0.0537	0.0040	<0.0040	<18.61	NA	NA	NA	NA
05	T02-11-060-4009	On set back south	1800	4	0.0537	0.0040	<0.0040	<18.61	NA	NA	NA	NA

ANALYST

E. Sioukri

LABORATORY DIRECTOR

Spiro Dugaris

LABORATORY CERTIFICATION NUMBERS: 2711-101550, 2711-101551

- 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.

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AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: Warren & Paezer Engineers, P.C.

LABORATORY ID #: T02-11-070

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

AVERAGE G.O. AREA (mm²): 0.013433

PROJECT: NYC DEP, 100 Church Street

DATE OF REPORT: 11/14/02

DATE OF ANALYSIS: 11/14/02

EFFECTIVE FILTER AREA (mm²): 385**LABORATORY RESULTS**

CLIENT #	LAB. ID #	LOCATION	VOLUME (l)	G.O.S ANAL YZER	AREA ANALY ZED (mm ²)	ANALYT. SENSITIV. (struct./cm ²)	TOTAL ASBESTOS AIR CONC. (struct./cm ²)	TOTAL ASBESTOS FILTER CONC. (str./mm ²)	AIR CONC. FOR STRUCT. 0.5<S<5µm	AIR CONC. FOR STRUCT. S≥5.0µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST TYPE SPECIFY
01	T02-11-070-4055	Decon	1491	4	0.0537	0.0048	<0.0048	<18.61	NA	NA	NA	NA
02	T02-11-070-4056	Entrance to roof	1455	4	0.0537	0.0049	<0.0049	<18.61	NA	NA	NA	NA
03	T02-11-070-4057	On roof west side	1455	4	0.0537	0.0049	0.0049	18.61	0.0049	<0.0049	Chrys.	NA
04	T02-11-070-4058	On roof south east	1431	4	0.0537	0.0050	<0.0050	<18.61	NA	NA	NA	NA
05	T02-11-070-4059	On roof south east	1431	4	0.0537	0.0050	<0.0050	<18.61	NA	NA	NA	NA

ANALYST

E. Sioukri

LABORATORY DIRECTOR

Spiro Dougiris

ATHENICA ENVIRONMENTAL SERVICES INC. IS AN EQUAL OPPORTUNITY EMPLOYER.

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228, East 45th Street
New York, NY 10017
(212) 922-0077
Fax (212) 922-0830

WARREN & PANZER ENGINEERS, P. C.

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

PAGE ____ OF ____

24 hr⁺/a 12 hr⁺/a 6 hr⁺/a 3 hr⁺/a Immediate ⁺/a

P.O. _____

CLIENT: DEP
PROJECT: 100 CHURCH
LOCATION: ROOF

W&P FILE #: 1079-01-02
LABORATORY: ATHERICA
ANALYSIS METHOD: PCM TEM TEM
circle one 7400 ATHERICA EPA LEVEL II
TECHNICIAN: S. Garcia

CONTACT: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START STOP	TIME ON OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (lb./cc.)
1	DECON	3		3 3	06:11 14:28	497	1491	
2	ENTRANCE TO ROOF	1		1 1	06:20 14:25	485	1455	
3	on roof west side	1		1 1	06:20 14:25	485	1455	
4	" " SOUTHEAST	1		1 1	06:30 14:27	477	1431	
5	" " SOUTHEAST	3		3 3	06:30 14:27	477	1431	
6	F - B	1		1 1				
7	F - B	1		1 1				
8	F - B	1		1 1				

COMMENTS:

702-11-070

SAMPLE BY: <u>S. Garcia</u>	DATE: <u>1/13/02</u>
SIGNATURE: <u>[Signature]</u>	
RELEASED BY: <u>S. Garcia</u>	DATE: <u>1/13/02</u>
SIGNATURE: <u>[Signature]</u>	
RECEIVED BY: <u>E. Stappin</u>	DATE: <u>1/14/02</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 INFORMATION



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ENVIRONMENTAL SERVICES INC.

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AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: Warren & Panzer Engineers, P.C.

LABORATORY ID #: T02-11-074

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

AVERAGE G.O. AREA (mm²): 0.013433

PROJECT: NYC DEP, 100 Church Street

DATE OF REPORT: 11/15/02

DATE OF ANALYSIS: 11/15/02

EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (l)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIV. (struct./cm ³)	TOTAL ASBESTOS AIR CONC. (struct./cm ³)	TOTAL ASBESTOS FILTER CONC. (struct./mm ²)	AIR CONC. FOR STRUCT. 0.5 <= < 5.0 µm	AIR CONC. FOR STRUCT. >= 5.0 µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST. TYPE SPECIFY
01	T02-11-074-4075	Entrance to roof	1395	5	0.0672	0.0041	0.0041	14.89	0.0041	<0.0041	Chrys.	NA
02	T02-11-074-4076	On roof west side	1395	5	0.0672	0.0041	<0.0041	<14.89	NA	NA	NA	NA
03	T02-11-074-4077	On roof south east	1386	5	0.0672	0.0041	<0.0041	<14.89	NA	NA	NA	NA
04	T02-11-074-4078	On roof south	1386	5	0.0672	0.0041	<0.0041	<14.89	NA	NA	NA	NA
05	T02-11-074-4079	On roof west	1386	5	0.0672	0.0041	<0.0041	<14.89	NA	NA	NA	NA

ANALYST
E. Sioukri

LABORATORY DIRECTOR
Spiro Dongaris

LABORATORY CERTIFICATION ATTRIBUTES: NYS LAB 101059, NYS LAB 10055

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WARREN & PANZER ENGINEERS, P. C.

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

PAGE ____ OF ____

24 hr⁺/a 12 hr⁺/a 6 hr⁺/a 3 hr⁺/a Immediate ⁺/a

P.O. _____

CLIENT: DEP
PROJECT: 100 CHURCH ST
LOCATION: ROOF

W&P FILE #: 1079-01-02
LABORATORY: ATHENICA
ANALYSIS METHOD: PCM TEM TEM
circle one 7400 NIHRA EPA LEVEL II
TECHNICIAN: S. GACCIA

CONTACT: A/A
LLW#: A/A
SCA JOB#: A/A

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE		TIME		TOTAL TIME	VOLUME (liters)	CONCENTR. (fib./cc.)
				START	STOP	ON	OFF			
1	ENTRANCE TO ROOF	3		3	3	06:15	14:00	465	1395	
2	On roof WEST SIDE	1		1	1	06:15	14:00	465	1385	
3	" " SOUTH EAST	1		1	1	06:18	14:02	462	1386	
4	" " SOUTH	1		1	1	06:18	14:02	462	1386	
5	" " WEST	3		3	3	06:19	14:03	462	1386	
6	F - B	1	—	—	—	—	—	—	—	
7	F - B	1	—	—	—	—	—	—	—	
8	F - B	1	—	—	—	—	—	—	—	

COMMENTS:

SAMPLE BY: S. GACCIA DATE: 11/14/02
SIGNATURE: [Signature]
RELEASED BY: [Signature] DATE: 11/14/02
SIGNATURE: [Signature]
RECEIVED BY: [Signature] DATE: 11/15/02
SIGNATURE: [Signature]

102-11074

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

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