


ATHENICA

 ENVIRONMENTAL SERVICES INC.
 Tel. (718) 784-7400
 Fax. (718) 784-1085

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

 CLIENT: Warren & Packer Engineers, P.C.
 LABORATORY ID #: T02-10-082
 ANALYT. METHODOLOGY: AHERA
 FILTER TYPE: M.C.E.
 AVERAGE G.O. AREA (μm^2): 0.013838

 PROJECT: NYC DEP, NYU Down town Hospital Building
 DATE OF REPORT: 10/14/02
 DATE OF ANALYSIS: 10/14/02
 EFFECTIVE FILTER AREA (mm^2): 385

52 Beekman Street

LABORATORY RESULTS

CLIENT #	LAB ID #	LOCATION	VOLUME (ft ³)	G.O. % ANALYZED	AREA ANALYZED (mm^2)	ANALYT. SENSITIVITY (femtograms)	TOTAL ASBESTOS AIR CONC. (femtograms)	TOTAL ASBESTOS FILTER CONC. (femtograms)	AIR CONC. FOR STRUCT. 0.555-3 μm	AIR CONC. FOR STRUCT. $\geq 5.0 \mu\text{m}$	ASBEST. TYPE CURYS.	AMPHIB. ASBEST. TYPE SPECIFY
01	T02-10-082-3096	On emergency room roof, right side	1490	4	0.0554	0.0047	<0.0047	<18.07	NA	NA	NA	NA
02	T02-10-082-3097	On emergency room roof, right	1485	4	0.0554	0.0047	<0.0047	<18.07	NA	NA	NA	NA
03	T02-10-082-3098	On emergency room roof, middle	1480	4	0.0554	0.0047	<0.0047	<18.07	NA	NA	NA	NA
04	T02-10-082-3099	On emergency room roof, left side	1470	4	0.0554	0.0047	<0.0047	<18.07	NA	NA	NA	NA
05	T02-10-082-3100	On emergency room roof, left side	1470	4	0.0554	0.0047	<0.0047	<18.07	NA	NA	NA	NA

ANALYST

E. Dimitrakas

LABORATORY DIRECTOR

Spino Dongaris

LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

- Athenica Environmental Services Inc. (AESI) is responsible only for information pertaining to samples taken by its employees.
- Air sampling sessions will be scored for sixty (60) days. AESI Inc. should be notified within this time frame for a true duplicate analysis.
- If AESI 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 listed. 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 AESI Inc.
- The liability of Athenica Environmental Services Inc. with respect to the services charged, shall in no event exceed the amount of the invoice.

10/15/2002 17:44 FAX

030

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(212) 922-0827
Fax (212) 922-0630

WARREN & PANZER ENGINEERS, P. C.

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

PAGE ____ OF ____
P.O. _____

CLIENT: DEP
PROJECT: NYC cleanup station Hospital St. WTC
LOCATION: Gold Street elevation

W&P FILE #: _____
LABORATORY: _____
ANALYSIS METHOD: PCM TEM
circle one 7400 LAHERA EPA LEVEL II
TECHNICIAN: _____

CONTACT: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START	FLOWRATE STOP	ON	TIME OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (lb./cc.)
01	on Emergency room roof, right side	3		5	5	0650	1148	278	1490	
02	on Emergency room roof, right side	3		5	5	0652	1149	257	1485	
03	on Emergency room roof, middle	3		5	5	0654	1150	256	1480	
04	on Emergency room roof left side	3		5	5	0657	1151	254	1470	
05	on Emergency room roof left side	3		5	5	0658	1152	244	1470	
06	P-B	1								
07	P-B	1								
08	P-B / Close	1								

COMMENTS:

T02-10-082

SAMPLE BY: off Abatement DATE: 10-13-02
SIGNATURE: _____
RELEASED BY: _____ DATE: _____
SIGNATURE: _____
RECEIVED BY: C. S. Cohen DATE: 10/14/02
SIGNATURE: [Signature]

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

SEE REVERSE SIDE FOR ANALYSIS INFORMATION



ATHENICA

ENVIRONMENTAL SERVICES INC.

Tel: (718) 784-7490
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AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: Warren & Panzer Engineers, P.C.
LABORATORY ID #: T02-10-065

ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.R.
AVERAGE G.O. AREA (mm²): 0.013838

PROJECT: NYC DEP, 170 Williams Street, NY
DATE OF REPORT: 10/11/02
DATE OF ANALYSIS: 10/11/02
EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB ID #	LOCATION	VOLUME (M)	G.O. % ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITV. (microgram)	TOTAL ASBESTOS AIR CONC. (microgram)	TOTAL ASBESTOS FILTER CONC. (microgram)	AIR CONC. FOR STRUCT. 0.45-5.0um	AIR CONC. FOR STRUCT. >5.0um	ASBEST. TYPE CHRS.	ADDFIB. ASBEST. TYPE SPECIFY
01	T02-10-065-3013	IWA right side of W/A	1575	4	0.0554	0.0044	<0.0044	<18.07	NA	NA	NA	NA
02	T02-10-065-3014	IWA 1 st middle of W/A	1575	4	0.0554	0.0044	<0.0044	<18.07	NA	NA	NA	NA
03	T02-10-065-3015	IWA 2 nd middle of W/A	1575	4	0.0554	0.0044	<0.0044	<18.07	NA	NA	NA	NA
04	T02-10-065-3016	IWA 3 rd middle of W/A	1575	4	0.0554	0.0044	<0.0044	<18.07	NA	NA	NA	NA
05	T02-10-065-3017	IWA left side of W/A	1575	4	0.0554	0.0044	<0.0044	<18.07	NA	NA	NA	NA

E. Siouky

ANALYST
E. Siouky

Spio Dongaris

LABORATORY DIRECTOR
Spio 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 cassette 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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WARREN & PANZER ENGINEERS, P.C.
AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM
24 hr⁺/a
12 hr⁺/a 6 hr⁺/a 3 hr⁺/a Immediate⁺/a

PAGE 1 OF 1
P.O. _____

CLIENT: NYC DEP
PROJECT: CELEBRATING
LOCATION: 170 William St NYC

W&P FILE #: 1079-0102
LABORATORY: NYE
ANALYSIS METHOD: PCM TEM
CIRCLE ONE 7400 AHERA EPA LEVEL II
TECHNICIAN: Dipa C. Srinivas

CONTACT: _____

702-10-065

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START	FLOWRATE STOP	TIME ON	TIME OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (fib./cc.)
02	1st middle of wt	3		04	06	0945	1500	315	1675	
03	2nd middle of wt	3		04	06	0946	1501	315	1575	
04	3rd middle of wt	3		04	06	0947	1502	315	1575	
05	left side of wa	3		04	06	0948	1503	315	1575	
06	field blank	1		04	06	0950	1504	315	1575	
07	Sealed blank	1								
08	Sealed blank	1								

COMMENTS: Start flow rate 04
stop flow rate 06

$$\frac{4+6}{2} = \frac{10}{2} = 5$$

SAMPLE BY: Dipa C. Srinivas
SIGNATURE: Dipa C. Srinivas
DATE: 10/10/02
RELEASED BY: Dipa C. Srinivas
SIGNATURE: Dipa C. Srinivas
DATE: 10/10/02
RECEIVED BY: A.C. Srinivas
SIGNATURE: A.C. Srinivas
DATE: 10/10/02

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

**ATHENICA**

ENVIRONMENTAL SERVICES INC.

Tel. (212) 794-7490
Fax. (212) 794-1085**AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY**

CLIENT: Warren & Panzer Engineers, P.C.

LABORATORY ID #: T02-10-069

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

AVERAGE G.O. AREA (mm²): 0.013838

PROJECT: NYC DEP, 170 Williams Street

DATE OF REPORT: 10/12/02

DATE OF ANALYSIS: 10/12/02

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

CLIENT #	LAB. ID #	LOCATION	VOLUME (l)	G.O.'s ANAL. (VZED)	AREA ANALY ZED (mm ²)	ANALYT. SENSITIV. (picogram)	TOTAL ASBESTOS AIR CONC. (picogram)	TOTAL ASBESTOS FILTER CONC. (picogram)	AIR CONC. FOR STRUCT. 0.453-5µm	AIR CONC. FOR STRUCT. 5-4.0µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST. TYPE SPECIES
01	T02-10-069-3033	IWA NYU hospital entrance	1575	4	0.0554	0.0044	<0.0044	<18.07	NA	NA	NA	NA
02	T02-10-069-3034	IWA right side (NYU entrance)	1575	4	0.0554	0.0044	<0.0044	<18.07	NA	NA	NA	NA
03	T02-10-069-3035	IWA 1 st middle (NYU entrance)	1575	4	0.0554	0.0044	<0.0044	<18.07	NA	NA	NA	NA
04	T02-10-069-3036	IWA 2 nd middle (NYU entrance)	1575	4	0.0554	0.0044	0.0044	18.07	<0.0044	0.0044	Chrys.	NA
05	T02-10-069-3037	IWA left side (NYU entrance)	1575	4	0.0554	0.0044	<0.0044	<18.07	NA	NA	NA	NA

E. Siwicki

ANALYST
E. SiwickiLABORATORY DIRECTOR
Spino Doughty

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 thirty (30) days. AES Inc., should be notified within this time frame for a time 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.
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WARREN & PANZER ENGINEERS, P.C.

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

24 hr⁺/a

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

P.O.

PAGE 1 OF 1

CLIENT: NYC DEP

PROJECT: Cleaning

LOCATION: 170 Williams St NYC

NYU Hospital

W&P FILE #: 1079-01-02

LABORATORY: W&P

ANALYSIS METHOD: PCM (TEM) TEM

circle one 7400 (AMER) EPA LEVEL II

TECHNICIAN: Dipa Eleno

CONTACT: Michael Moran

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START STOP	ON	TIME OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (lb./cc.)
01	11th Flr Hospital entrance	3		03 03	0800	1645	575	1035	
02	Right side (nyu entrance)	3		03 03	0801	1646	525	1575	
03	1st middle (nyu entrance)	3		03 03	0802	1647	525	1575	
04	2nd middle (nyu entrance)	3		03 03	0803	1648	525	1575	
05	Left side (nyu entrance)	3		03 03	0805	1650	525	1575	
06	Field blank	1					NA		
07	Field blank	1					NA		
08	Sealed blank	1					NA		

COMMENTS:

102-10-069

SAMPLE BY: Dipa Eleno DATE: 10/11/02

SIGNATURE: Dipa Eleno

RELEASED BY: Dipa Eleno DATE: 10/11/02

SIGNATURE: Dipa Eleno

RECEIVED BY: A. C. Allen DATE: 10/24/02

SIGNATURE: A. C. Allen

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



ATHENICA

ENVIRONMENTAL SERVICES INC.
Tel. (718) 784-7190
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AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: Warren & Panzer Engineers, P.C.
LABORATORY ID #: T02-10-079
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.H.
AVERAGE G.O. AREA (mm²): 0.01383

PROJECT: NYC DEP, 170 Williams Street,
DATE OF REPORT: 10/13/02
DATE OF ANALYSIS: 10/13/02
EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (l)	G.O.'s ANAL. VZED	AREA ANALY ZED (mm ²)	ANALYT. SENSITIV. (fwh/cm ²)	TOTAL ASBESTOS AIR CONC. (fwh/cm ²)	TOTAL ASBESTOS FILTER CONC. (fwh/mm ²)	AIR CONC. FOR STRICT. 0.55-5µm	AIR CONC. FOR STRICT. 825.0µm	ASBEST. TYPE GRNVS.	ANALYT. ASBEST. TYPE SPECIF.
01	T02-10-079-3081	IWA right side of W/A	1350	5	0.0692	0.0041	<0.0041	<14.45	NA	NA	NA	NA
02	T02-10-079-3082	IWA 1 st middle of W/A	1350	5	0.0692	0.0041	<0.0041	<14.45	NA	NA	NA	NA
03	T02-10-079-3083	IWA 2 nd middle of W/A	1350	5	0.0692	0.0041	<0.0041	<14.45	NA	NA	NA	NA
04	T02-10-079-3084	IWA 3 rd middle of W/A	1350	5	0.0692	0.0041	<0.0041	<14.45	NA	NA	NA	NA
05	T02-10-079-3085	IWA left side of W/A	1350	5	0.0692	0.0041	<0.0041	<14.45	NA	NA	NA	NA

E. Stoukri

ANALYST
E. Stoukri

S. Dongaris

LABORATORY DIRECTOR
Spiro Dongaris

LABORATORY CERTIFICATION NUMBERS: NVLAP 101358, ELAP 10955

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WARREN & PANZER ENGINEERS, P.C.

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

24 hr +/a

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

P.O.

PAGE 1 OF 1

CLIENT: NYC DEP
PROJECT: Cleaning
LOCATION: 170 Boulevard ST
Wulu Hospital

W&P FILE #: 1079-01-02
LABORATORY: W&P
ANALYSIS METHOD: PCM TEM
circle one 7400 HERA EPA LEVEL II
TECHNICIAN: 110A 110A

CONTACT:

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START	FLOWRATE STOP	TIME ON	TIME OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (lb./cc)
01	1st light side of lot	3		03	03	0730	1500	450	1350	
02	1st middle	3		03	03	0731	1501	450	1350	
03	2nd middle	3		03	03	0732	1502	450	1350	
04	3rd middle - lot	3		03	03	0733	1503	450	1350	
05	4th side of lot	3		03	03	0735	1505	450	1350	
06	field blank	1								
07	-	1								
08	Sealed blank	1								

COMMENTS:

T02-10-079

SAMPLE BY: Dyos ELSMO DATE: 10/12/02
SIGNATURE: Dyos
RELEASED BY: Dyos ELSMO DATE: 10/12/02
SIGNATURE: Dyos
RECEIVED BY: A. C. G. G. G. DATE: 10/12/02
SIGNATURE: A. C. G. G. G.

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