



AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: Warren & Panzer Engineers. P. C.
LABORATORY ID #: T02-08-010
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.E.
AVERAGE G.O. AREA (mm²): 0.012422

PROJECT: NYC DEP, 97 Chambers
DATE OF REPORT: 08/03/02
DATE OF ANALYSIS: 08/03/02
EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (lt)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIV. (struct./cm ³)	TOTAL ASBESTOS AIR CONC. (struc./cm ³)	TOTAL ASBESTOS FILTER CONC. (str./mm ³)	AIR CONC. FOR STRUCT. 0.5≤S<5μm	AIR CONC. FOR STRUCT. S≥5.0μm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST TYPE SPECIFY
001A	T02-08-010-1249	Entrance to roof	1650	4	0.0497	0.0047	<0.0047	<20.13	NA	NA	NA	NA
002A	T02-08-010-1250	Center area of roof	1650	4	0.0497	0.0047	<0.0047	<20.13	NA	NA	NA	NA
003A	T02-08-010-1251	East side of roof	1650	4	0.0497	0.0047	<0.0047	<20.13	NA	NA	NA	NA
004A	T02-08-010-1252	North end of roof	1650	4	0.0497	0.0047	<0.0047	<20.13	NA	NA	NA	NA
005A	T02-08-010-1253	South end of roof	1650	4	0.0497	0.0047	<0.0047	<20.13	NA	NA	NA	NA

E. Sioukri

ANALYST
 E. Sioukri

Spiro Dongaris

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.

ENVIRONMENTAL SERVICES INC.

Tel. (718) 764-7400
Fax (718) 764-4085

TEM AHERA COUNTSHEET

TEM AHERA COUNTSHEET 1	
CLIENT: Warren & Ponzar	DATE: 8/3/02
PROJECT: MYCDEP/97 Chambers	ANALYST: E-S.
BATCH #: 702-08-010	CLIENT ID #: 001A
SAMPLE ID #: 702-08-010-1249	VOLUME (l): 1650
G.O. AREA (mm ²): 0.012422	GO's TO ANALYZE: 4
MAGNIFICATION: 194	ACC. VOLTAGE (KeV): 100
INSTRUMENT: JEOL 100CX II	FILTER AREA (mm ²): 385
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

[illegible]

Analytical Sensitivity (str/cm ²):	0.0047	Bucentricity check:	
Concentration (str/cm ²):	< 0.0047	*Grid acceptance criteria check: (A) ☒ (B) ☒	
Concentration (str/mm ²):	< 20.13	**CHR. # STRUCT.: F	M C B
Number of Asbestos Structures: 0.55 ≤ S < 5 μm ...	0	**AMPH. # STRUCT.: F	M C B
S ≥ 5 μm ...	0	Specify AMPH. Type: AM.	ACT. TRE.
Number of Non-asbestos Structures: ...	0	CRO.	ANTH.

*Replica covers >50% at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

** CHR = chrysotile, AMPH = amphibole, AM = amosite, ACT = actinolite, TRE = tremolite, CRO = crocidolite, ANTH = anthophyllite

NYC-WTC_000205971

Tel. (718) 784-7400
Fax (718) 784-4088

TEM DEPARTMENT

TEM AHRA COUNTSHEET	
CLIENT: Warren & Ponzar	DATE: 8/3/02
PROJECT: MCDOP/97 Chambers	ANALYST: E.S.
BATCH #: 702-08-010	CLIENT ID #: 003A
SAMPLE ID #: 702-08-010-1251	VOLUME (10): 1650
G.O. AREA (mm ²): 0.012422	GO's TO ANALYZE: 4
MAGNIFICATION: 194	ACC. VOLTAGE (KeV): 100
INSTRUMENT: JEOL 100CX II	FILTER AREA (mm ²): 385
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART B	

[illegible]

Analytical Sensitivity (str/cm ²):	0.0047	Eucentricity check:	
Concentration (str/cm ²):	<0.0047	*Grid acceptance criteria check:	(A)..... (B).....
Concentration (str/mm ²):	12013	**CHR. # STRUCT.:	F M C B
Number of Asbestos Structures:	0.5 ≤ S ≤ 5 μm 0.....	**AMPH. # STRUCT.:	F M C B
	S ≥ 5 μm 0.....	Specify AMPH. Type:	AM. ACT. TRE.
Number of Non-asbestos Structures:	 0.....	CRO. ANTH.	

* Replia covers >50% at least 20 OO's with no overlapping or folded replica, intact OO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

** CHR.=chrysotile, AMPH.=amphibole, AM.=amosite, ACT.=actinolite, TRB.=tremolite, CRO.=crocidolite, ANTH.=anthophyllite

