



250 E 38th Street
10th Floor
New York, NY 10017
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AIR SAMPLE ANALYSIS REPORT
PHASE CONTRAST MICROSCOPY

CLIENT: WARREN & PANZER ENGINEERS, P.C.

TURNAROUND TIME 24HRS

WKP FILE # 501-01

SAMPLE DATE 4/6/2002

WKP LOG I.D. # N020436

RECEIVE DATE 4/6/2002

Contract #: WTC AR2

ANALYSIS DATE 4/6/2002

REPORT DATE 4/7/2002

CLIENT JOB: NYC Department of Environmental Protection

CLIENT JOB #: 1079.01.01

LOCATION WTC Sampling

ANALYSIS: AIRBORNE FIBER COUNTING, PHASE CONTRAST MICROSCOPY, NIOSH 7400. NIOSH PAT Lab NO. 07186; NY STATE ELAP Lab NO. 11251.

COLLECTION DEVICE: 25 mm MCE Filter Cassette, Collection Area = 385 sq mm;
Field Area = 0.00785 sq mm.

SAMPLE WERE COLLECTED BY: Festy Osemwegie

SUMMARY OF ANALYSIS

CLIENT SAMPLE #	Site #	SAMPLE LOCATION	VOLUME (LITERS)	FIBERS/ sq mm	FIBERS/ cc
1079.01.01	001	Field Blank	-	0.000	-
	002	Field Blank	-	0.000	-
	003	29 Trinity Place and Thames Street	675	0.000	<0.004
	004	21 Fulton and Church Street	675	0.000	<0.004
	005	20A Vesey Street and West Broadway	675	0.000	<0.004
	006	16 Park place and Church Street	675	0.000	<0.004
	007	12 Murray Street and Church Street	675	0.000	<0.004
	008	15 Park Place and Greenwich Street	675	0.000	<0.004
	009	11 Murray Street and Greenwich Street	675	0.000	<0.004

- NOTES:
1. 5.5 fibers/100 fields was used to calculate the limit of detection (LOD). Results below the LOD have no statistical validity.
 2. Samples were not collected by WKP Laboratories, Inc.
 3. The Federal EPA Clearance Critical following an asbestos abatement project is 0.010 fibers/cc.
 4. PCM air samples will be disposed of after 3 months unless otherwise directed by client in writing.

Chris Pepino

LABORATORY ANALYST

Louis Lombardi

LABORATORY DIRECTOR

228 East 45th Street
New York, NY 10017
(212) 922-0077
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WARREN & PANZER ENGINEERS, P.C.

PAGE OF

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

24 hr^{+/a} 12 hr^{+/a} 6 hr^{+/a} 3 hr^{+/a} Immediate ^{+/a}

P.O. _____

CLIENT: NYC DEP
PROJECT: WTC Sampling
LOCATION: _____

W&P FILE #: 1079-01-01
LABORATORY: WKP
ANALYSIS METHOD: PCM TEM TEM
circle one 7400 AHERA EPA LEVEL II
TECHNICIAN: FESTI POSEINWELER

CONTACT: MIKE

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE		TIME		TOTAL TIME	VOLUME (liters)	CONCENTR. (fib./cc.)
				START	STOP	ON	OFF			
01	FIELD BLANK	1								-
02	" "	1								-
03	29	8		15	15	0920	1005	45	675	<0.004
04	21	8		15	15	1020	1105	45	675	<0.004
05	20	8		15	15	1120	1205	45	675	<0.004
06	16	8		15	15	1220	1305	45	675	<0.004
07	12	8		15	15	1315	1400	45	675	<0.004
08	15	8		15	15	1405	1450	45	675	<0.004
09	11	8		15	15	1510	1555	45	675	<0.004

COMMENTS:

SAMPLE BY: FESTI POSEINWELER DATE: 04-06-02
SIGNATURE: [Signature]
RELEASED BY: _____ DATE: _____
SIGNATURE: _____
RECEIVED BY: Chris Pepino DATE: 04/06/02
SIGNATURE: [Signature]

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

N020436



228 East 45th Street
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AIR SAMPLE ANALYSIS REPORT PHASE CONTRAST MICROSCOPY

CLIENT:	WARREN & PANZER ENGINEERS, P.C.	TURNAROUND TIME	24HRS
WKP FILE #	501-01	SAMPLE DATE	4/8/2002
WKP LOG I.D. #	N020434	RECEIVE DATE	4/6/2002
Contract #:	WTC AR2	ANALYSIS DATE	4/6/2002
		REPORT DATE	4/7/2002
CLIENT JOB:	NYC Department of Environmental Protection		
CLIENT JOB #:	1079.01.01		
LOCATION	S.W. Area, Adj. WTC "Ground 0"		
ANALYSIS:	AIRBORNE FIBER COUNTING, PHASE CONTRAST MICROSCOPY, NIOSH 7400. NIOSH PAT Lab NO. 07188; NY STATE ELAP Lab NO. 11251.		
COLLECTION DEVICE:	25 mm MCE Filter Cassette; Collection Area = 365 sq mm; Field Area = 0.00785 sq mm.		

SAMPLE WERE COLLECTED BY: Lawrence Baer

SUMMARY OF ANALYSIS

CLIENT SAMPLE #	Site #	SAMPLE LOCATION	VOLUME (LITERS)	FIBERS/ sq mm	FIBERS/ cc
1079 01 01	001	Field Blank	-	0.000	-
	002	Field Blank	-	0.000	-
	003	27 Gateway Plaza Park Area	675	0.000	<0.004
	004	31 South End Ave. and Albany Street	675	0.000	<0.004
	005	32 West Street and Albany Place	675	0.000	<0.004
	006	33A Rector Place by the Park Place	675	0.000	<0.004
	007	34 W. Thames Street - Along Waterfront	675	0.000	<0.004
	008	37 West of Third Place	675	9.600	0.005

- NOTES:
- 5.5 fibers/100 fields was used to calculate the limit of detection (LOD). Results below the LOD have no statistical validity.
 - Samples were not collected by WKP Laboratories, Inc.
 - The Federal EPA Clearance Critical following an asbestos abatement project is 0.010 fibers/cc.
 - PCM air samples will be disposed of after 3 months unless otherwise directed by client in writing.

Chris Pepino
LABORATORY ANALYST

Louis Lombardi 
LABORATORY DIRECTOR

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WARREN & PANZER ENGINEERS, P.C.

PAGE 1 OF 1

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

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

P.O. _____

CLIENT: N.Y.C.D.E.P.PROJECT: WORLD TRADE CENTER - AIR SAMPLELOCATION: S.W. AREA - INT. WTC - GROUND 0"W&P FILE #: 1079-01-01LABORATORY: WMP LABCONTACT: MR. MIKE NOLANANALYSIS METHOD: PCM TEM TEM
circle one 7400 AHERA EPA LEVEL IITECHNICIAN: LAURENCE BAER

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE		TIME		TOTAL TIME	VOLUME (liters)	CONCENTR. (fib./cc.)
				START	STOP	ON	OFF			
-01	FIELD BLANK	1	—	—	—	0802	—	—	—	—
-02	FIELD BLANK	1	—	—	—	0805	—	—	—	—
-03	GATEWAY PARK PARK AREA SITE # 27	8		15.0	15.0	0840	0925	45.0	675	<0.004
-04	SOUTH END AVE & ALBANY STREET # 31	8		15.0	15.0	0930	1015	45.0	675	<0.004
-05	WEST STREET & ALBANY STREET # 32	8		15.0	15.0	1030	1115	45.0	675	<0.004
-06	RECTOR PLACE BY THE PARK PLACE # 33A	8		15.0	15.0	1145	1230	45.0	675	<0.004
-07	W. THAMES STREET - WATERFRONT # 34	8		15.0	15.0	1245	1330	45.0	675	<0.004
-08	WEST OF THIRD PLACE # 37	8		15.0	15.0	1345	1430	45.0	675	0.005

COMMENTS:

SAMPLE BY: LAURENCE BAER DATE: 4/6/02SIGNATURE: Jimmy Boy SAMUEL

RELEASED BY: _____ DATE: _____

SIGNATURE: _____

RECEIVED BY: Chris Pepina DATE: 04/06/02SIGNATURE: Chris Pepina

N 020434

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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PAGE 1 OF 1

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

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

P.O. _____

CLIENT: NYC D.A.P.

W&P FILE #: 1079.01.01.

PROJECT: WTC - Sampling

LABORATORY: LOPF

CONTACT: M. Moran

LOCATION: NYC

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

TECHNICIAN: Renny Giambone

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE		TIME		TOTAL TIME	VOLUME (liters)	CONCENTR. (fib./cc.)
				START	STOP	ON	OFF			
01	8	E		15.0	15.0	11:30	11:45	45	675	0.006
02	4	-		15.0	15.0	10:30	11:15	45	675	<0.004
03	9			15.0	15.0	11:15	12:00	45	675	<0.004
04	6A			15.0	15.0	12:05	12:50	45	675	<0.004
05	17			15.0	15.0	12:55	13:40	45	675	<0.004
06	7			15.0	15.0	14:15	15:00	45	675	<0.004
07	10	V		15.0	15.0	15:05	5:50	45	675	<0.004
	BLANK									-
	BLANK									-

COMMENTS:

SAMPLE BY: Renny Giambone DATE: 4-6-02

SIGNATURE: Renny Giambone

RELEASED BY: _____ DATE: _____

SIGNATURE: _____

RECEIVED BY: Chris Pepine DATE: 04/06/02

SIGNATURE: Chris Pepine

SAMPLE TYPE CODES

1 - Blank	5 - Final Clearance (inside)
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NO 20435

WKP

LABORATORIES, INC

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**AIR SAMPLE ANALYSIS REPORT
PHASE CONTRAST MICROSCOPY**

CLIENT: WARREN & PANZER ENGINEERS, P.C.

TURNAROUND TIME 24HRS

WKP FILE # 501-01

SAMPLE DATE 4/6/2002

WKP LOG I.D. # N020435

RECEIVE DATE 4/6/2002

Contract #: WTC AR2

ANALYSIS DATE 4/6/2002

REPORT DATE 4/7/2002

CLIENT JOB: NYC Department of Environmental Protection

CLIENT JOB #: 1079.01.01

LOCATION WTC Sampling

ANALYSIS: AIRBORNE FIBER COUNTING, PHASE CONTRAST MICROSCOPY, NIOSH 7400. NIOSH PAT Lab NO. 07186; NY STATE ELAP Lab NO. 11251.

COLLECTION DEVICE: 25 mm MCE Filter Cassette, Collection Area = 385 sq mm;
Field Area = 0.00785 sq mm.

SAMPLE WERE COLLECTED BY: Benny Glambrone

SUMMARY OF ANALYSIS

CLIENT SAMPLE #	Site #	SAMPLE LOCATION	VOLUME (LITERS)	FIBERS/ sq mm	FIBERS/ cc
1079 01 01	001	8 West Street and Warren Street	675	10.200	0.006
	002	4 River Terrace and Chambers Street	675	0.000	<0.004
	003	9 River Terrace and Park Place West	675	0.000	<0.004
	004	6A River Terrace Park Area Between Park Place and Warren Street	675	0.000	<0.004
	005	17 River Terrace and Vesey	675	0.000	<0.004
	006	7 Warren Street and North End Avenue	675	0.000	<0.004
	007	10 North End Avenue Park place West	675	0.000	<0.004
		Blank	-	0.000	-
		Blank	-	0.000	-

- NOTES:
1. 5.5 fibers/100 fields was used to calculate the limit of detection (LOD). Results below the LOD have no statistical validity.
 2. Samples were not collected by WKP Laboratories, Inc.
 3. The Federal EPA Clearance Critical following an asbestos abatement project is 0.010 fibers/cc.
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