



AIR SAMPLE ANALYSIS REPORT PHASE CONTRAST MICROSCOPY

CLIENT: WARREN & PANZER ENGINEERS, P.C.

TURNAROUND TIME 24HRS

WKP FILE # 501-01

SAMPLE DATE 4/11/02

WKP LOG I.D. # N020462, N020463, N020464

RECEIVED DATE 4/11/02

Contract #: WTC AR2

ANALYSIS DATE 4/12/02

REPORT DATE 4/12/02

CLIENT JOB: NYC Department of Environmental Protection

CLIENT JOB #: 1079.01.01

LOCATION WTC Sampling- NYC

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: Lawrence Baer, Benny Giambone, and J. Garcia

SUMMARY OF ANALYSIS

CLIENT SAMPLE #	Site #	SAMPLE LOCATION	VOLUME (LITERS)	FIBERS/ sq mm	FIBERS/ cc
1079.01.01	001	Field Blank	-	0.0	-
	002	Field Blank	-	0.0	-
	003	Getaway Plaza Park Area	675	0.0	<0.004
	004	South End Ave. and Albany Street	675	7.6	0.004
	005	West Street and Albany Place	675	1.8	<0.004
	006	33A Rector Place by the Park Place	675	4.5	<0.004
	007	W. Thomas Street - Along Waterfront	675	12.7	0.007
	008	West of Third Place	675	6.4	0.004
	009	West Street and Warren Street	675	5.1	<0.004
	010	River Terrace and Chambers Street	675	1.3	<0.004
	011	6A River Terrace Park Area Between Park Place and Warren Street	675	7.6	0.004
	012	9 River Terrace and Park Place West	675	7.6	0.004
	013	17 River Terrace and Vesey	675	10.2	0.006
	014	7 Warren Street and North End Avenue	675	5.1	<0.004
	015	10 North End Avenue Park place West	675	10.2	0.006
	016	29 Trinity Place and Thames Street	675	19.4	0.008
	017	21 Fulton and Church Street	675	14.6	0.008
	018	20A Vesey Street and West Broadway	675	15.3	0.008
	019	16 Park place and Church Street	675	5.1	<0.004
	020	12 Murray Street and Church Street	675	15.9	0.008
	021	15 Park Place and Greenwich Street	675	5.1	<0.004
	022	11 Murray Street and Greenwich Street	675	8.3	0.005

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. PCM air samples will be disposed of after 3 months unless otherwise directed by client in writing.

David Mullokandov

LABORATORY ANALYST

David Mullokandov

LABORATORY DIRECTOR

228 East 45th Street
New York, NY 10017
(212) 922-0077
Fax (212) 922-0630

WARREN & PANZER ENGINEERS, P. C.

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

PAGE 1 OF 1

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

P.O. _____

CLIENT: Nyc DEP
PROJECT: WIC-Sampling
LOCATION: Nyc

W&P FILE #: 1079.01.01

LABORATORY: W&P

CONTACT: M. Nolan

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

TECHNICIAN: Benny Giambrone

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START	FLOWRATE STOP	TIME ON	TIME OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (fib/cc.)
01	#8	8		15.0	15.0	8:00	8:45	45	675	<0.004
02	#4			15.0	15.0	8:55	9:40	45	675	<0.004
03	#6A			15.0	15.0	9:50	10:35	45	675	0.004
04	#9			15.0	15.0	10:40	11:25	45	675	0.004
05	#17			15.0	15.0	11:33	12:18	45	675	0.006
06	#7			15.0	15.0	12:30	13:15	45	675	<0.004
07	#10			15.0	15.0	13:20	14:05	45	675	0.006
	Blank	1								
	Blank	1								

COMMENTS:

SAMPLE BY: Benny Giambrone DATE: 4-11-02
SIGNATURE: Benny Giambrone
RELEASED BY: _____ DATE: _____
SIGNATURE: _____
RECEIVED BY: Abram Mullokov DATE: 04/11/02
SIGNATURE: Abram Mullokov

N020462

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

228 East 45th Street
New York, NY 10017
(212) 922-0077
Fax (212) 922-0630

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

P.O. _____

CLIENT: N.Y.C.D.E.P.
PROJECT: WORLD TRADE CTR / AIR MONITORING
LOCATION: S.W. SECTOR / SITE M-1

W&P FILE #: 1079-01-01
TURN AROUND: 24 HR
TECHNICIAN: LAWRENCE BAER

Analysis Method: PCM - 7400
(circle one) TEM - AHERA
TEM - EPA LEVEL II

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE		TIME		TOTAL TIME	VOLUME (liters)	CONCENTR. (lb./cc.)
				START	STOP	ON	OFF			
-01	FIELD Blank	1	—	—	—	0750	—	—	—	—
-02	FIELD Blank	1	—	—	—	0751	—	—	—	—
-03	GATEWAY PLAZA PARK (27)	8	02	15.0	15.0	0805	0850	45.	675.	<0.004
-04	SOUTH END AVE & ALBANY ST. (31)	8	02	15.0	15.0	0915	1000	45.	675.	0.004
-05	WEST STREET & ALBANY ST. (32)	8	02	15.0	15.0	1020	1105	45.	675.	<0.004
-06	RECTOR PLACE BY THE PARK (33A)	8	02	15.0	15.0	1130	1215	45.	675.	<0.004
-07	W. THAMES ST BY WATERFRONT (34)	8	02	15.0	15.0	1245	1330	45.	675.	0.007
-08	WEST OF THIRD PLACE (37)	8	02	15.0	15.0	1430	1515	45.	675.	0.004

SAMPLED BY: LAWRENCE BAER DATE: 4/11/02
SIGNATURE: Lawrence Baer THURSDAY
RELEASED BY: _____ DATE: _____
SIGNATURE: _____
RECEIVED BY: Abram Muellekander DATE: 04/11/02
SIGNATURE: Abram Muellekander

N020464

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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AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

PAGE 6

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

P.O. _____

CLIENT: DEPW&P FILE #: 1079.01.01

LABORATORY: _____

CONTACT: _____

PROJECT: _____

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

LOCATION: _____

TECHNICIAN: J. Garcia

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE		TIME		TOTAL TIME	VOLUME (liters)	CONCENTR. (lb./cc.)
				START	STOP	ON	OFF			
1	Location 11	8		15	15	08:08	08:53	45	675	0.005
2	" 15	↓		↓	15	08:56	09:41	45	675	<0.004
3	" 20A	↓		↓	15	14:07	14:52	45	675	0.009
4	" 16	↓		↓	15	09:45	10:30	45	675	<0.004
5	" 12	↓		↓	15	10:35	11:20	45	675	0.009
6	" 21	↓		↓	15	11:36	12:21	45	675	0.008
7	" 29	8		15	15	12:31	13:16	45	675	0.008

COMMENTS:

SAMPLE BY: J. Garcia DATE: 4.11.02
SIGNATURE: [Signature]
RELEASED BY: _____ DATE: _____
SIGNATURE: _____
RECEIVED BY: Abram Mullekanov DATE: 01/11/02
SIGNATURE: [Signature]

N020463

SAMPLE TYPE CODES

- | | |
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SEE REVERSE SIDE FOR ANALYSIS INFORMATION



228 East 45th Street
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Tel: (212) 922-0077

FACSIMILE COVER SHEET

DATE: 4/12/02

SENDER: Lox

FACSIMILE PHONE NUMBER: (212) 922-0630

RECEIVER: Barbara Raffo

COMPANY NAME: _____

FACSIMILE NUMBER: 718-595-3744

NUMBER OF PAGES (INCLUDING COVER SHEET): 5

NOTES: PCN results for 4/11/02

IF THERE ARE ANY PROBLEMS WITH THIS TRANSMISSION, PLEASE NOTIFY
THE SENDER IMMEDIATELY AT (212) 922-0077.

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