



CONSULTING & TESTING SERVICES, INC.

ASBESTOS AIR QUALITY MONITORING

AT

**115 BROADWAY
VARIOUS FLOORS
NEW YORK, NY**

September 2001
Project NY-402-01 (WTC)

Prepared for:

CAPITOL PROPERTIES
111/115 Broadway
New York, NY 10006
Attn.: Mr. Kevin Hoey

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Executive Summary

At the request of Mr. Kevin Hoey agent for **CAPITAL PROPERTIES, Consulting & Testing Services, Inc. (CTSI)** performed environmental testing at 115 Broadway. The purpose of the sampling was to evaluate the building's air quality and dust composition subsequent to the World Trade Center tragedy.

CTSI was requested to perform dust sampling of the subject building as well as performing air monitoring during the dust clean up.

Dust samples were collected on September 18th, 2001. Air samples were collected on September 20th, 2001 and continued to October 1st, 2001.

- **Air samples** were collected as part of building air quality/dust control evaluation and during clean up processes from the following floors: Basement, Main Lobby, Trinity Level, Ground, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd and rooftop. All samples collected were transported to an independent certified laboratory, **EMSL Analytical**, for analysis. Samples were analyzed utilizing Phase Contrast Microscopy (PCM) Methodology (Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issued 2, 8/15/94).

Air samples collected at conclusion of clean up phases on September 27th, 28th and October 1st were within New York State and City clearance criteria of <0.01 f/cc (fibers per cubic centimeter). Total of one hundred seventy four (174) samples were collected during clean up phases. Please see Section VI for locations and results.

- **Dust Samples** were collected from the following floors: Roof (west side), 21st, 22nd, 20th, 19th, 18th, 17th, 15th, 13th, 12th, 11th, 10th, 9th, 8th, 7th, 6th, 5th, 4th, 3rd, 2nd and C-Level (Concourse). Samples were collected from dust/debris from the locations. A total of twenty-three (23) dust samples were collected.

All samples collected were transported to an independent certified laboratory, **EMSL Analytical**, for analysis. Samples were analyzed utilizing Polarized Light Microscopy (PLM) Methodology via the NY State ELAP 198.1 method. Some dust sample results tested positive for presence of asbestos. Please see Section V for locations and results.

All surfaces such as but not limited to the air-handling units, passenger/freight elevators, main lobby, secondary lobbies, staircases and occupied floors were wet wiped and HEPA vacuumed by a licensed asbestos contractor. All air filters within the said fan units were removed and disposed of as asbestos waste. This project was filed with the New York City Department of Environmental Protection as an emergency clean up. Please see section VIII for stamped copy and filings.

In addition to the above, **CTSI** performed Dust Particulate testing from various areas of the building. Dust Particulates were collected utilizing a Nephelometric Laser Scatter Total Dust Measure method. This method utilizes the diffraction of laser beams to evaluate the density of dust in the beam path. It is sensitive to as little as one tenth of one microgram of dust per cubic meter of air (0.1 UG/M³). The test results were acceptable and within the established OSHA standards. Please see Section VII for locations and results.

Due to the outside air conditions with elevated dust levels and fumes from the World Trade Center clean up process, **CTSI** recommends that the outside fresh air louvers be kept closed and opened only when outside air has been checked by building engineering staff to be odor

and dust free. Lack of fresh outside air will result in elevated Carbon Dioxide levels during building full occupancy after 10:00 AM. Tenants may report an increase in symptoms such as but not limited to headaches, mild dizziness and fatigue.

CTSI also, recommends that the air filters on all fan units be inspected on a daily basis and if necessary, replaced during the outside clean up process. The cleaning contractor should utilize only **HEPA** filtered vacuums for building cleaning.

Furthermore, **CTSI** recommends periodic air quality monitoring during the outside clean up process.

Thank you for giving **CTSI** the opportunity to assist you on this project.





STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
 License and Certificate Unit
 BUILDING 12, Room 161
 STATE CAMPUS
 ALBANY, NY 12240
ASBESTOS HANDLING LICENSE

LICENSE NUMBER: 99-0617
 DATE OF ISSUE: 06/26/01
 EXPIRATION DATE: 06/31/02

Contractor: Consulting & Testing Services, Inc.

Address: 622 Georges Road, Suite 301
 North Brunswick, NJ 08902

Duly Authorized Representative: Farshad Salami

This license has been issued in accordance with applicable provisions of Article 80 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. The licensee verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Richard Cucola, Director
 FOR THE COMMISSIONER OF LABOR

SH 432 (10-00)



ACORD

CERTIFICATE OF LIABILITY INSURANCE

SP ID FK
CONS01N

DATE (MM/DD/YY)
09/06/01

PII

ACORD

CERTIFICATE OF LIABILITY INSURANCE

EP ID FK
CONS01N

DATE (MM/DD/YY)
09/06/01

PII





CTSI DAILY LOG FORM/INSPECTION

Date: 9/19/01 Start Time: 7:00 Finish Time: 2:00
 Technician (s) Name: S. Hamaoka / F. Azizov / B. Shamaoka Technician's License Number: AH 97-0833
 Project #: _____
 Project Client/Address: ~~2000 1st St~~ / 115 Broadway
 Project Location/Area: second, third, fourth floor
 Client Rep. (Signature): _____ Client Project Manager: _____
 Asbestos Contractor: Comco Supervisor: M. Bet
 Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.): Air Monitoring
 Work Area Size: _____ ACM Quantity Removed (specify LF or SF): _____
 Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.): _____ Yes or No
 If yes, state the name, badge #, type of inspection & conversation. _____

Summary of Work/Activities Performed:

7:00 On the job site. Met with superv. & crew from "Comco", discussed the scope of work. 8:30 Truck on site. 8:45 Security allowed crew on site. Workers started unload equipment. 10:00 Finished unloading equipment. Started generators. Checked licenses. All valid. the 2nd, 3rd & 4th floors. 10:00 ~~workers~~ F. Shamailov & F. Azizov on site. 10:20 Set up pumps for "AQ" test. 11:30 checked 2nd FL the crew continue clearing procedure. 13:00 the asbestos guys having lunch-break. 13:30 the guys finished having lunch-break the guys site up continue clearing. 14:30 checked 3rd Floor asbestos guys continue clearing procedure. 15:30 checked the pumps running good. 16:00 the asbestos guys continue clearing. 17:00 B. Shamailov on job site. Discuss scope of work with Surgey, F. Shamailov and F. Azizov. Signatures.

All workers' licenses inspected & valid: ☒ Yes or No

Type of samples (i.e. PCM, TCLP, PLM, etc.): PCM

of samples taken: 14

Supervisor's license #: AH-03-09833

Results:

Pass or Fail

(if failed, state corrections in above space)

Technician Signature: Ghan

Work Area Sketch:

Continued on next page





CTSI DAILY LOG FORM/INSPECTION

Date: 9/19-20/01 Start Time: 7⁰⁰ Finish Time: 2³⁰
Technician (s) Name: S. Manukov / F. Azizov Technician's License Number: BH9605251
B. Shumakov
Project #: _____
Project Client/Address: ~~Rodriguez & Company~~ / 115 B-way
Project Location/Area: second, third, fourth floors.
Client Rep. (Signature): _____ Client Project Manager: _____
Asbestos Contractor: Cornco Supervisor: M. Best
Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.): Air Monitoring
Work Area Size: _____ ACM Quantity Removed (specify LF or SF): _____
Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.): Yes or No
If yes, state the name, badge #, type of inspection & conversation.

Summary of Work/Activities Performed:

17:30 First crew is leaving job site. 4. Steamer for on site. Discuss scheduled of work. 18:00 2nd Shift on site
 18:30 Crew starts cleaning on 2nd, 3rd & 4th floors.
 20:10 Check pumps draining well 22:00 lunch 22:30
 Resume cleaning 24:50 collected samples. Workers continued
 clean up. procedure: vacuum, wet wipe. 2:05 Workers started to
 take a shower. 2:30 Crew left the job site. Checked the area - secured.
 Went to the lab. 3:00 Dropped samples @ EMSL.

All workers' licenses inspected & valid: ☒ Yes or No

Type of samples (i.e. PCM, TCLP, PLM, etc.): PCM

of samples taken: 14

Supervisor's license #: A11 33-00054 (362)

Results: Pass or Fail

(if failed, state corrections in above space)

Technician Signature: G. Khan

Work Area Sketch:





CTSI DAILY LOG FORM/INSPECTION

Date: <u>9/20/01</u>	Start Time: <u>7:00</u>	Finish Time: <u>17:00</u>
Technician (s) Name: <u>G. Chamber / T. Azizov</u>		Technician's License Number: <u>H197-02833</u>
Project #: _____		
Project Client/Address: <u>115 Broome / 115 Broadway</u>		
Project Location/Area: <u>115 Broome bldg.</u>		
Client Rep. (Signature): _____ Client Project Manager: _____		
Asbestos Contractor: <u>Comco</u> Supervisor: <u>W. Bat</u>		
Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.): <u>Air Monitoring</u>		
Work Area Size: _____ ACM Quantity Removed (specify LF or SF): _____		
Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.): _____ Yes or No		
If yes, state the name, badge #, type of inspection & conversation.		

Summary of Work/Activities Performed:

7:00 On the job site with F. Arizon. 8:00 Crew of superv. from Conco on site. Started to go through the check point. Checked licenses. per verid. 8:30 set up pumps for "DUEING" test. Workers put the suits on & started clean up of the 3rd, 4th & 12th floor. 09:30 the asbestos crew continue cleaning procedure. 10:30 the asbestos guys completed 3rd FZ. we did visual inspection everything clear. 11:30 have of the crew started working on 14th FZ. 12:30 the crew continue cleaning on 4th FZ, 13th FZ, 14th FZ. 13:00 the asbestos guys having lunch-break. 14:00 the rights in the bldg. went out - no power. As a result, crew stopped cleaning. 15:30 still no power in the bldg. 15:40 According to superv. from Conco - there won't be any power for today. As a result this shift was going home & second shift was cancelled. 16:00 left the job site.

All workers' licenses inspected & valid: ☒ Yes or No

Type of samples (i.e. PCM, TCLP, PLM, etc.): PCM # of samples taken: 06 Results: Pass or Fail

Supervisor's license #: AH 93-0004 (ex/2)

Technician Signature: S. Khan

Work Area Sketch:

(if failed, state corrections in above space)

16:00 F. Arizon went to the lab. 17:00 Dropped samples @ EMSL.





CTSI DAILY LOG FORM/INSPECTION

Date: <u>9/21/01</u>	Start Time: <u>7:30</u>	Finish Time: <u>18:30</u>
Technician (s) Name: <u>Yury Phano.lov</u>		Technician's License Number: <u>HH93-03781</u>
Project #: <u>S. Manickov, A. Korenreich, / Oleg Berezinskiy</u>		
Project Client/Address: <u>115 Broadway / 111 Broadway</u>		
Project Location/Area: <u>14, 15, 16, 17, 18, 19, 20, 21</u>		
Client Rep. (Signature): _____ Client Project Manager: _____		
Asbestos Contractor: <u>Careco</u> Supervisor: <u>M. Bet</u>		
Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.): <u>Air Monitoring</u>		
Work Area Size: <u>clean up</u>		
Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.): <u>Yes</u> or <u>No</u>		
If yes, state the name, badge #, type of inspection & conversation.		
<u>14:20 NYC DEP on site Mr. Carlstrom Letchmedial.</u>		
<u>inspected air to for to DEP all air samples results.</u>		

Summary of Work/Activities Performed:

Regulids from Loh, sample # 2.3 for 9/25/91 J.H.H.

7:30 All crew on site. Alberto's crew on site. 8:00 Crew start work on 14, 15, 16, 17, 18. General clean up. Approx 10-12 men per floor. Discussed the situation on the site. 9:00 R. Shanahan on site. 11:00 Checked pumps - running OK! Workers continued on site. Forwarded Solami on site. S. Manawaker started inspection, dirt samples on 11 Broadway 12:00 X. Monahan checked all floor. At this time. 1:08 floor complete clean up 17, 18 clean up complete. 80%. After change samples, and set up pump on 20th floor. 13:00 All crew going to lunch. Set up additional pumps 14, 15, 16, 17, 18. 13:30 Alberto Oley 19, 20, 21 and 24 fls. 18:00 Oley check pumps. All many well. 17:30 S. Manawaker completed samples (dirt and G.L.) on 11 Broadway 18:00 Crew collected all sample. All workers' licenses inspected & valid: ☒ Yes or No

Type of samples (i.e. PCM, TCLP, PLM, etc.): PCM # of samples taken: _____ Results: _____ Pass or Fail

Supervisor's license #: AH 93-00054 (or) _____

Technician Signature: S. Shanahan (if failed, state corrections in above space)

Work Area Sketch: _____

18:00 R. Shanahan and R. Alvarez on site work with guys all floor. 14, 15, 16, 17, 18, 19, 20, 21, 22 floor complete. 12, 17, 18, 21 complete 80%. 18:30 Shift on site. 18:30 Our crew left job site drive to Lab. 19:30 Dropped samples to Lab.





CTSI DAILY LOG FORM/INSPECTION

Date: 9/21/01 Start Time: 1800 Finish Time: 300

Technician (s) Name: B. Stamenov Technician's License Number: 26-05251

Project #: F. Acirac

Project Client/Address: 115 - Broadway

Project Location/Area: 11th Flr 12th Flr

Client Rep. (Signature): _____

Client Project Manager: _____

Asbestos Contractor: Comco

Supervisor: Abel Nedel'guet

Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.): IAQ

Work Area Size: _____

ACM Quantity Removed (specify LF or SF): _____

Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.):

Yes or No

If yes, state the name, badge #, type of inspection & conversation.

Summary of Work/Activities Performed:

8:00 Arrived on site. met. Yarky + Frank (CRSI). Also super + crew of 16 handymen planning to clean 11th + 12th floors.
 10:50 Boris and Frank set up pumps around 11th 12th fls.
 Crew suite up + help face. Start clean up procedure.
 20:10 crew continue clean up procedure on those floors. 22:00 the asbestos guys having lunch-break the crew suite up and start clean up procedure continue 24:00 my self and Boris checked the w/a the guys working O.K. 01:00 checked the pump's running O.K.
 2:50 Crew complete cleaning on 11th fl. Also complete about 80% of 12th fl. Crew did not finish cleaning on west side of 12th fl. We collected samples. 300 Shop samples.
 at EMS!

All workers' licenses inspected & valid: ☒ Yes or No

Type of samples (i.e. PCM, TCLP, PLM, etc.): P.C.M. # of samples taken: _____

Supervisor's license #: RODRIGUEZ M302

Results: _____ Pass or Fail 79150

(if failed, state corrections in above space)

Technician Signature: Boris Shamailov / E. H21200

Work Area Sketch:





CTSI DAILY LOG FORM/INSPECTION

Date: <u>9/22/94</u>	Start Time: <u>7:30</u>	Finish Time: <u>18:30</u>
Technician (s) Name: <u>S. Chambers / S. Chernomir</u>		Technician's License Number: <u>AH97-08833</u>
Project #: _____		
Project Client/Address: <u>115 Broadway</u>		
Project Location/Area: <u>Entire bldg.</u>		
Client Rep. (Signature): _____		
Asbestos Contractor: <u>Comcep</u>		Client Project Manager: _____
Supervisor: _____		Supervisor: <u>M. Rest</u>
Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.): <u>Air Monitoring</u>		
Work Area Size: _____		
ACM Quantity Removed (specify LF or SF): _____		Yes or No
Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.): _____		
If yes, state the name, badge #, type of inspection & conversation. _____		

Summary of Work/Activities Performed:

7:30 On the job site. Met with superv. of crew from "Conoco". Discussed the scope of work for today. 8:00 Workers started to put the suits on. Checked licenses. Re valid. 8:30 set up pumps for "Duck 116" test. Workers started clean up in designated areas. 9:30 Checked Roof level. Notice to sup. to every worker need setting. 11:00 Crew continue clean up 19, 10, 9, 8 Fls. and Roof. 12:00 Alex change location pumps. 13:00 Crew took break. At this time 19 and 10 Floor completed clean up. 13:40 Crew continue work on 7, 8, 9, 10 Fls. and had lunch. 14:30 S. Manna and J. Pham started pump running on 111 Broadway. 16:00 Workers continued clean up. Crew completed work on the roof. 16:20 Frank Salas on 5th. State collected sample. 18:00 Boss Pham on 1st / O. Becerra on 8th. All workers' licenses inspected & valid: ☒ Yes or No

Type of samples (i.e. PCM, TCLP, PLM, etc.): PCM # of samples taken: 18 Results: Pass or Fail

Supervisor's license #: AM 93-00054 (05/02)

Technician Signature: 

Work Area Sketch:

18:30 Every one left job site. 2nd shift started work, continue cleaning on 7 Floor. Drive to Lab



NYC-WTC_000132901

Summary of Work/Activities Performed:

1800 ARRIVED on site Met Yudy + Subgey (C752)
 Discuss scope of work - planning to finish 7th floor
 completely 1800 Oleg Belerzinsky (E752) on site. Also
 2nd Shift on site Crew + handoffs - Check all needs
 1830 wet set up pumps around on 7th fl.
 Crew start wet wipe and vacuume 8th floor
 20:00 The crew continues cleaning on the 7th floor. We checked
 our pumps, all are running 2200 lunch Break 2230
 Resume work. Continue cleaning 7th floor. 2330 Crew
 vacuuming North corridor for the crew continues
 with the cleanup on the 7th floor. 230 Collected samples.
 300 Drop samples at EMSL. Crew complete cleaning on 7th FL

All workers' licenses inspected & valid: ☒ Yes or No

Supervisor's license #:

Type of samples (i.e. PCM, TCLP, PLM, etc.): PCN

of samples taken: 12

Results:

Pass or Fail

(if failed, state corrections in above space)

Technician Signature:

B. Zimmerman

Work Area Sketch:



CTSI DAILY LOG FORM/INSPECTION

Date: 9/22/01 Start Time: 7:20 Finish Time: 19:30
 Technician (s) Name: S. Mamukha / Y. Shama, Coi Technician's License Number: Alt 27-02832
 Project #: _____
 Project Client/Address: 115 Broadway
 Project Location/Area: Turtre Bldg.
 Client Rep. (Signature): _____ Client Project Manager: _____
 Asbestos Contractor: Comco Supervisor: M. Pelt
 Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.): Air Monitoring
 Work Area Size: _____ ACM Quantity Removed (specify LF or SF): _____
 Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.): Yes or No
 If yes, state the name, badge #, type of inspection & conversation.

Samuel Nebedun nyc/dep

Summary of Work/Activities Performed:

7:20 On the job site. Met with supervisor of crew from "Comco". Discussed the scope of work for today. Crew starts work on 8, 6 and 5th fls. Legal Alcos set up pumps 2 1/2", 8, 7, 6 and 5th fls. 8:30 Discussed with sup. to clean up the 4th floor. 9:30 Crew starts to clean all floors beginning from up level. 11:00 Y. Hanaoka left the job site. Checked pumps. All running OK. Workers continued clean up. 12:00 Workers took a break for lunch. Collected samples. 12:10 Two DEP reprs. on site. Discussed the situation on the site. 12:45 DEP left the area. 14:00 Workers came back from lunch & resumed previous activities. Set up second set of samples for "AQ" test. 16:20 Continued clean up. 16:40 Clean up of 7, 8, 5 & 2nd complete. Continued clean up of the 6th fl & started clean up of lobby. 17:40 Workers started to take a shower. Only 6th floor All workers' licenses inspected & valid: ☒ Yes or No

Supervisor's license #: AM 93-00054 (Ox)
 Type of samples (i.e. PCM, TCLP, PLM, etc.): PCM # of samples taken: 13 Results: Pass or Fail

(if failed, state corrections in above space)

Technician Signature: S. Hanaoka

Work Area Sketch:

was incomplete. 18:00 Workers left the job site. Went to the Lab.





CTSI DAILY LOG FORM/INSPECTION

Date: 9/24/01 Start Time: 7:30 Finish Time: 17:30
 Technician (s) Name: S. Taylor, L. Shannon, F. Harrison Technician's License Number: AK 98-09196
 Project #: _____
 Project Client/Address: 115 BROADWAY
 Project Location/Area: Entire Building
 Client Rep. (Signature): _____ Client Project Manager: _____
 Asbestos Contractor: COMCO Supervisor: Michael Beff
 Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.): Air Monitoring
 Work Area Size: _____ ACM Quantity Removed (specify LF or SF): _____
 Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.): Yes or No
 If yes, state the name, badge #, type of inspection & conversation.

Summary of Work/Activities Performed:

7:30. Y. Sharafkhan, L. Sharon, F. Azizov and S. Fezzyer on job site.
 7:50 Asbestos crew of 22 (including 3 supervisors) on job site.
 8:00 Crew suit up and began clean up on 6th floor, basement and
 Jan rooms on 21st and 20th floor. Set up pumps for Air Quality test.
 F. Azizov set up 1 more pump on 17th FZ. Discussed with super scope of
 work. Don Crew continue clean up. 11:00 the asbestos crew continue clean up procedure.
 12:00 the asbestos crew having lunch-break. big area joined the crew for lunch.
 12:30 the crew finished having lunch-break. the guys suite up entered w/A.
 F. Azizov. ~~Sebebe~~ 2 change cables for 2nd set. the continue same. 13:30
 Foxhoad SKLAMI on job site discussed scope of work. 14:00 Set up pumps in 20th
 Blat #11. 15:00 Crew continue clean up in both buildings. 15:00 crew finished job
 in basement. Bldg #11. 15:40 walk through the bldg 111 Broadway.

All workers' licenses inspected & valid: ☒ Yes or NoType of samples (i.e. PCM, TCLP, PLM, etc.): PCM# of samples taken: 13

Results:

Pass or Fail

Supervisor's license #: 80213/AR93-00054Technician Signature: F. Azizov, L. Sharon, S. Fezzyer.
 (if failed, state corrections in above space)

Work Area Sketch:

Found on 4th and 17th Fls 2 other very cloudy.
 Call Bldg manager. to discuss. 16:21 Collected samples. Bldg #111
 16:40 went to EMSL. 17:30 Dropped samples to Lab.



CTSI DAILY LOG FORM/INSPECTION



Date: <u>9/27/01</u>	Start Time: <u>7:30</u>	Finish Time: <u>15:30</u>
Technician (s) Name: <u>S. Tegelyar, A. Kosenovich</u>		Technician's License Number: <u>AK98-09196</u>
Project #: _____		
Project Client/Address: <u>115 BROADWAY</u>		
Project Location/Area: <u>Entire Building</u>		
Client Rep. (Signature): _____		
Asbestos Contractor: _____		
Client Project Manager: _____		
Supervisor: <u>A</u>		
Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.): _____		
Work Area Size: _____		
ACM Quantity Removed (specify LF or SF): _____		
Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.): _____		
If yes, state the name, badge #, type of inspection & conversation. _____		
Yes or No		

Summary of Work/Activities Performed:

7:30 We on site. 8:00 Began set up pumps on 19th floor 8:30 No para
 on 18th and 17th floors. Asst electrician to fix it. 8:40 Began set up pumps
 on 18th floor. 9:34 Finished set up first set. 11:00 Continue testing.
 12:00 Began set up 2nd set. 13:06 Finished set up second set.
 14:05 Began collect samples. 15:06 Collected all samples. 15:30 Off site
 Alex Korenevich Went to EMSL.

All workers' licenses inspected & valid: Yes or No

Type of samples (i.e. PCM, TCLP, PLM, etc.): PCM

of samples taken: 33

Supervisor's license #:

Results:

Pass or Fail

(if failed, state corrections in above space)

Technician Signature: S. Fegley

Work Area Sketch:





CTSI DAILY LOG FORM/INSPECTION

Date: 9/28/01 Start Time: 7:30 Finish Time: 17:30
 Technician (s) Name: S. Tefeyee / A. Koocheyan Technician's License Number: AH 98-09196
 Project #: Y/Phonix
 Project Client/Address: 115 BROADWAY
 Project Location/Area: Entire Bldg.
 Client Rep. (Signature): _____ Client Project Manager: _____
 Asbestos Contractor: Conca Supervisor: Bett Michael
 Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.): Air Monitoring and cleanup.
 Work Area Size: _____ ACM Quantity Removed (specify LF or SF): _____
 Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.): _____ Yes or No
 If yes, state the name, badge #, type of inspection & conversation. _____

 S Bett Michael 80213 3/3/03 AH 93-00054 03/02 113-82-3854
 H Espinoza Geovanny 85465 8/17/03 AH 01-11008 08/02 179-32-8520
 H Alvarez German 82806 11/23/03 AH 00-20852 11/01 139-73-1491
 H Jorge Bravo 80107 12/29/02 AH 00-02421 12/01 068-89-8828
 SZYMANSKI JANUSZ 81278 9/13/02 AH 98-15280 09/02 116-86-9279

Summary of Work/Activities Performed:

7:30 Arrived on job site. 8:20 Set up pumps for Air Quality Test.
 8:30 Asbestos crew of five + supervisor from Conoco on site Total - six
 checked licenses. All valid. 9:00 crew began clean up 18th floor Bldg #111
 Trinity level, and shift stop. Discussed with supervisor to start clean up
 Very dusty. 11:50 Broadway walk to 22nd floor.
 activity 10:30 crew continue clean up 18th floor, 90% done.
 Supervisor and crew change samples and location pumps 11:30 spoke with m/v
 Bldg manager. Discussed to clean 22nd floor. Requested that Conoco do clean up
 on 22nd floor today a/r. 12:34 Finished set up second set, 12:45 set up pump.
 Trinity level. 14:00 crew continue clean up Trinity level. 14:34 collected samples.
 All workers' licenses inspected & valid: Yes or No
 Type of samples (i.e. PCM, TCLP, PLM, etc.): PCM # of samples taken: 36 Results: Pass or Fail
 Supervisor's license #: 80213 ; AH93-00054

Technician Signature: S. Teger

(if failed, state corrections in above space)

Work Area Sketch:

15:30 Checked inside Trinity level clean up, not finished yet. crew ~~to~~ collect
 material 16:30 Conoco leaving job site. Discussed with Bldg manager to continue
 work Monday 10/21/01. 17:30 Dropped samples to EMSC.





CTSI DAILY LOG FORM/INSPECTION

Date: 10/01/01 Start Time: 7:45 Finish Time: 17:45
 Technician (s) Name: Y. Pham-ba / S. Testyan Technician's License Number: AW 98-09196

Project #:

Project Client/Address: 111-115 Broadway

Project Location/Area: 22 floor and thinning level.

Client Rep. (Signature):

Client Project Manager:

Asbestos Contractor: Conce

Supervisor: Michael Beff

Project Scope of Work (i.e. Air Monitoring, Lead Sampling, Survey, IAQ, etc.):

and clean up.

Work Area Size:

ACM Quantity Removed (specify LF or SF):

Was the work area inspected by a regulatory agency/inspector (DOL, DEP, OSHA, DOH, EPA, etc.):

Yes or No

If yes, state the name, badge #, type of inspection & conversation.

S. M. Beff 118-82-3854 80213 3/3/03 AH 93-00054 03/02
 J. ALVARO 139-73-1491 82806 11/23/03 AH 00-20852 11/01
 J. SZYMANSKI 116-86-9279 81278 9/13/02 AH 98-15280 09/02
 A. ESPINOZA 132-09-8675 82885 12/30/02 AH 96-19791 12/01

Summary of Work/Activities Performed:

7.1.95 Arrived on site. Met with Bldg. manager Kern. Scope of work for today clean up Trinity level and 22nd floor. 8:15 Work for contractors' crew. 8:50 Contractor's crew on site. Supervisor, plus 3 workers. Start clean up on Trinity level. We set up pumps on Trinity level and 22nd floor. 9:55 Asbestos crew confine clean up on Trinity level and 22nd floor. 11:00 Crew keep working. 12:00 Trinity level done. Lunch break. 12:22 changed cassettes on 22nd floor. 12:30 Resume work after lunch. 12:35 Set up pumps on Trinity level. 13:30 Crew continue clean up on 22nd floor. 14:20 Job done. 14:30 Visual inspection - Pass. Collected samples. 14:37 collected samples on Trinity level. 14:50 Set up pumps on 22nd floor. 16:52 Collected samples. 17:15 Collected pumps. Went to EMSL. 18:10 Dropped samples to EMSL.

All workers' licenses inspected & valid: ☒ Yes or NoType of samples (i.e. PCM, TCLP, PLM, etc.): PCM # of samples taken: 13 Supervisor's license #: 80213/PH93-00054Results: Pass or Fail
(if failed, state corrections in above space)Technician Signature: S. Tefly #2

Work Area Sketch:



1.

2.

3.

4.

5. 6.

7.

8.

9.

10.

PLM BULK SAMPLE ANALYSIS

Client: Capitol Properties **CTSI Project #:** NY-402-01 **Location:** 115 Broadway
Date: September 18th, 2001 **Entire**

SAMPLE ID#	LOCATION	SAMPLE TYPE	PLM ANALYZED
001	Roof-west side	Bulk	1.80% Chrysotile
002	22 nd Fl. North west window sill	Bulk	<1% Chrysotile
003	21 st Fl. West side window sill	Bulk	2.40% Chrysotile
004	20 th Fl. NW side conference rm. table	Bulk	<1% Chrysotile
005	19 th fl. NW side offices window sill	Bulk	1.90% Chrysotile
006	18 th Fl. Kitchen window ledge	Bulk	2.10% Chrysotile
007	17 th fl. NW corner office window ledge	Bulk	1.40% Chrysotile
008	15 th Fl. NW corner office window ledge	Bulk	1.50% Chrysotile
009	13 th Fl. NW corner office window ledge	Bulk	2.10% Chrysotile
010	12 th Fl. NW corner office window ledge	Bulk	1.70% Chrysotile
011	11 th Fl. NW corner office window ledge	Bulk	1.50% Chrysotile
012	10 th Fl. NW corner offices dust on pager	Bulk	2.00% Chrysotile
013	9 th Fl. NW corner office dust on hutch	Bulk	1.70% Chrysotile
014	8 th Fl. John Kirch office table dust	Bulk	1.70% Chrysotile
015	7 th Fl. Joseph Porisi office table dust	Bulk	<1% Chrysotile
016	6 th Fl. Staircase West dust	Bulk	1.70% Chrysotile
017	6 th fl. NW office Grace Show office	Bulk	1.60% Chrysotile
018	5 th fl. NW offices window ledge	Bulk	1.60% Chrysotile
019	4 th fl. NW offices cubicles	Bulk	1.70% Chrysotile
020	3 rd Fl. NW offices cubicles	Bulk	1.60% Chrysotile
021	2 nd Fl. South side offices dust	Bulk	1.40% Chrysotile
022	2 nd Fl. NW side offices dust	Bulk	<1% Chrysotile
023	C Level-staircase to Trinity Place	Bulk	1.80% Chrysotile

N/D =None detected PLM = Polarized Light Microscopy



09/19/2001 09:28

212-290-0058

EMSL MANHATTAN

PAGE 01

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0051 Fax: 212-290-0058 Email:

EMSL

Attn: F. Sai
CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
North Brunswick, NJ 08902

Fax: (732) 729-1803

Phone: 732-729-1800

Project: CAPITAL PROPERTIES; 115 BWY

Customer ID: CTSI50

Customer PO:

Received: 09/19/01 12:30 AM

EMSL Order: 030104474

EMSL Project ID:

Analysis Date: 9/19/01

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

Sample	Location	Appearance	Treatment	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
001 030104474-0001	ROOF WEST SIDE	Tan Fibrous Heterogeneous	Teased Dissolved	30.00% Glass 45.00% Cellulose	23.20% Non-fibrous (other)	1.80% Chrysotile
002 030104474-0002	22ND FLR NW WINDOW SILL	Brown/Gray/White Non-Fibrous Heterogeneous	Crushed Dissolved	10.00% Glass 25.00% Cellulose	35.00% Quartz 30.00% Non-fibrous (other)	<1% Chrysotile
003 030104474-0003	21ST FLR WEST SIDE WINDOW SILL	Gray/Tan Fibrous Heterogeneous	Teased Dissolved	40.00% Glass 30.00% Cellulose	27.60% Non-fibrous (other)	2.40% Chrysotile
004 030104474-0004	20TH FLR NW SIDE, CONFERENCE	Tan Fibrous Homogeneous	Teased Dissolved	40.00% Glass 25.00% Cellulose	35.00% Non-fibrous (other)	<1% Chrysotile
005 030104474-0005	18TH FLR NW SIDE OFFICE WINDOW SILL	Gray/Tan/White Fibrous Heterogeneous	Teased Dissolved	35.00% Glass 35.00% Cellulose	28.10% Non-fibrous (other)	1.90% Chrysotile
006 030104474-0006	18TH FLR KITCHEN WINDOW LEDGE	Gray/Tan/White Fibrous Heterogeneous	Teased Dissolved	35.00% Glass 35.00% Cellulose	27.90% Non-fibrous (other)	2.10% Chrysotile
007 030104474-0007	17TH FLR NW CORNER OFFICE	Tan Fibrous Heterogeneous	Teased Dissolved	30.00% Glass 35.00% Cellulose	33.60% Non-fibrous (other)	1.40% Chrysotile
008 030104474-0008	15TH FLR NW CRNR OFFICE WINDOW LEDGE	Gray/Tan Fibrous Heterogeneous	Teased Dissolved	35.00% Glass 35.00% Cellulose	28.50% Non-fibrous (other)	1.50% Chrysotile
009 030104474-0009	13TH FLR NW CORNER OFFICE	Tan/White Fibrous Heterogeneous	Teased Dissolved	40.00% Glass 30.00% Cellulose	27.90% Non-fibrous (other)	2.10% Chrysotile
010 030104474-0010	12TH FLR NW CORNER OFFICE	Tan/White Fibrous Heterogeneous	Teased Dissolved	35.00% Glass 35.00% Cellulose	28.30% Non-fibrous (other)	1.70% Chrysotile

Williams John

Analyst

Laboratory Manager
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NYLAP nor any agency of the United States Government.

Analysis performed by EMSL Manhattan (NYLAP #101049-9), NY ELAP 11506

PLM P-Int Count-1

09/19/2001 09:20

212-290-0058

EMSL MANHATTAN

PAGE 02

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0051 Fax: 212-290-0058 Email:

EMSL

Attn: F. Sai
 CTSI-Consulting & Testing Services, Inc.
 822 Georges Rd.
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Fax: (732) 729-1803

Phone: 732-729-1800

Project: CAPITAL PROPERTIES; 115 BWY

Customer ID: CTSI50

Customer PO:

Received: 09/19/01 12:30 AM

EMSL Order: 030104474

EMSL Project ID:

Analysis Date: 9/19/01

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

Sample	Location	Appearance	Treatment	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
011 030104474-0011	11TH FLR NW CORNER OFFICE	Tan Fibrous Homogeneous	Teased Dissolved	40.00% Glass 30.00% Cellulose	28.50% Non-fibrous (other)	1.50% Chrysotile
012 030104474-0012	10TH FLR NW CORNER OFFICE DUST	Tan Fibrous Heterogeneous	Teased Dissolved	35.00% Glass 35.00% Cellulose	28.00% Non-fibrous (other)	2.00% Chrysotile
013 030104474-0013	9TH FLR NW CORNER OFFICE DUST	Tan Fibrous Homogeneous	Teased Dissolved	40.00% Glass 30.00% Cellulose	28.30% Non-fibrous (other)	1.70% Chrysotile
014 030104474-0014	8TH FLOOR JOHN KIVCH OFFICE TA I.E.	Tan Fibrous Homogeneous	Teased Dissolved	40.00% Glass 35.00% Cellulose	23.30% Non-fibrous (other)	1.70% Chrysotile
015 030104474-0015	7TH FLR JOSEPH POUSS OFFICE TA I.E.	Tan Fibrous Homogeneous	Teased Dissolved	35.00% Glass 35.00% Cellulose	30.00% Non-fibrous (other)	<1% Chrysotile
016 030104474-0016	6TH FLR STAIRCASE WEST DUST	Tan Fibrous Homogeneous	Teased Dissolved	40.00% Glass 30.00% Cellulose	28.30% Non-fibrous (other)	1.70% Chrysotile
017 030104474-0017	6TH FLR NW OFFICE GRACE SHOW OFFICE	Tan Fibrous Homogeneous	Teased Dissolved	40.00% Glass 35.00% Cellulose	23.40% Non-fibrous (other)	1.50% Chrysotile
018 030104474-0018	5TH FLR NW OFFICE WINDOW LEDGE	Brown/Tan/White Fibrous Heterogeneous	Teased Dissolved	40.00% Glass 35.00% Cellulose	23.40% Non-fibrous (other)	1.50% Chrysotile
019 030104474-0019	4TH FLR NW OFFICE CU ICLES	Gray/Tan/White Fibrous Heterogeneous	Teased Dissolved	35.00% Glass 40.00% Cellulose	23.30% Non-fibrous (other)	1.70% Chrysotile
020 030104474-0020	3RD FLR NW OFFICE CU ICLES	Tan Fibrous Homogeneous	Teased Dissolved	30.00% Glass 40.00% Cellulose	28.40% Non-fibrous (other)	1.50% Chrysotile

Williams John

Analyst

Laboratory Manager
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NYLAP nor any agency of the United States Government.

Analysis performed by EMSL Manhattan (NYLAP#101048-5), NY ELAP 11508

PLM Printout: 1

2

09/19/2001 09:20 212-290-0058

EMSL MANHATTAN

PAGE 03

EMSL

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0051 Fax: 212-290-0058 Email:

Attn: F. Sal
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 622 Georges Rd.
 North Brunswick, NJ 08902

Fax: (732) 729-1803

Phone: 732-729-1800

Project: CAPITAL PROPERTIES, 115 BWY

Customer ID: CTSI50

Customer PO:

Received: 09/19/01 12:30 AM

EMSL Order: 030104474

EMSL Project ID:

Analysis Date: 9/19/01

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

Sample	Location	Appearance	Treatment	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
021 030104474-0021	2ND FLR SOUTH SIDE OFFICE DUST	Tan Fibrous Homogeneous	Teased Dissolved	35.00% Glass 35.00% Cellulose	29.80% Non-fibrous (other)	1.40% Chrysotile
022 030104474-0022	2ND FLR NW SIDE OFFICE DUST	Gray/Tan Fibrous Heterogeneous	Teased Dissolved	25.00% Glass 25.00% Cellulose	50.00% Non-fibrous (other)	<1% Chrysotile
023 030104474-0023	C LEVEL STAIRCASE	Tan Fibrous Homogeneous	Teased Dissolved	40.00% Glass 35.00% Cellulose	23.20% Non-fibrous (other)	1.80% Chrysotile

Williams John

Analyst



Laboratory Manager
 or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Analysis performed by EMSL Manhattan (NVLAP #101048-9), NY ELAP 11508

PLM Printout-1

3



09/20/2001 11:42

212-290-0058

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PAGE 01/03

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0051 Fax: 212-290-0058 Email:

EMSL

Attn: Frank Azizov
 CTSI-Consulting & Testing Services, Inc.
 622 George Rd.
 North Brunswick, NJ 08902
 Fax: (732) 729-1803 Phone: 732-729-1800
 Project: 115 Broadway, 2nd, 3rd, and 4th floors

Customer ID: CTS150
 Customer PO:
 Received: 09/20/01 12:33 AM
 EMSL Order: 030104558
 EMSL Project ID:
 Analysis Date: 9/19/01

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
01 030104558-0001	2ND FLOOR EAST SIDE	9/20/01	1200.00	24.0	100	0.002	30.57	0.010		
02 030104558-0002	3RD FLOOR WEST SIDE	9/20/01	1200.00	40.0	100	0.002	50.96	0.016		✓
03 030104558-0003	4TH FLOOR WEST SIDE	9/20/01	1200.00	7.8	100	0.002	9.55	0.003		
04 030104558-0004	2ND FLOOR EAST SIDE	9/20/01	1200.00	64.0	100	0.002	81.53	0.026		✓
05 030104558-0005	3RD FLOOR WEST SIDE	9/20/01	1200.00	8.0	100	0.002	10.19	0.003		
06 030104558-0006	4TH FLOOR WEST SIDE	9/20/01	1200.00	<5.5	100	0.002	<7.0	<0.002		
07 030104558-0007	2ND FLR WEST SIDE	9/20/01	940.00	<5.5	100	0.003	<7.0	<0.003		
08 030104558-0008	3RD FLOOR EAST SIDE	9/20/01	940.00	17.0	100	0.003	21.66	0.008		
09 030104558-0009	4TH FLOOR EAST SIDE	9/20/01	940.00	<5.5	100	0.003	<7.0	<0.003		
10 030104558-0010	2ND FLOOR WEST SIDE	9/20/01	1000.00	<5.5	100	0.003	<7.0	<0.003		
11 030104558-0011	3RD FLOOR EAST SIDE	9/20/01	1000.00	<5.5	100	0.003	<7.0	<0.003		
12 030104558-0012	4TH FLOOR EAST SIDE	9/20/01	1000.00	<5.5	100	0.003	<7.0	<0.003		

Thomas Michel

Analyst

Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². This laboratory is not responsible for data reported in operations, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL.
 Analysis performed by EMSL Manhattan (NY State ELAP #11508)

PCN/1

1

09/20/2001 11:42

212-290-0058

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PAGE 02/03

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0051 Fax: 212-290-0058 Email:

EMSL

Attn: Frank Azizov
CTSI-Consulting & Testing Services, Inc.
822 Georges Rd.
North Brunswick, NJ 08902
Fax: (732) 729-1803 Phone: 732-729-1800
Project: 115 Broadway, 2nd, 3rd, and 4th floors

Customer ID: CTSI50
Customer PO:
Received: 09/20/01 12:33 AM
EMSL Order: 030104558
EMSL Project ID:
Analysis Date: 9/19/01

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fibr/cc)	Fibers/ mm ³	Fibers/ cc	Notes
13 030104558-0013	BLANK	9/20/01	0.00	<5.5	100		<7.0		Field Blank
14 030104558-0014	BLANK	9/20/01	0.00	<5.5	100		<7.0		Field Blank

Thomas Michel

Analyst

[Signature]

Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm³. The laboratory is not responsible for data reported in fibr/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL.
Analysis performed by EMSL Manhattan (NY State ELAP #11506)

09/20/2001 23:57

212-290-0058

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PAGE 01

New York Lab

307 West 38th Street, New York, NY 10018

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EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
North Brunswick, NJ 08902

Fax: (732) 729-1803 Phone: 732-729-1800

Project: C & W/ 115 Broadway / Entire Bldg

Customer ID: CTSI50

Customer PO:

Received: 09/20/01 8:05 PM

EMSL Order: 030104622

EMSL Project ID:

Analysis Date: 9/20/01

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fibers	LOD (fib/cc)	Fibers/ mm ³	Fibers/ cc	Notes
01 030104622-0001	3rd Fl E side	9/20/01	1440.00	10.0	100	0.002	12.74	0.003	
02 030104622-0002	4th Fl W side	9/20/01	1440.00	95.0	100	0.002	121.02	0.032	
03 030104622-0003	13th E side	9/20/01	1440.00	48.0	100	0.002	62.42	0.017	
04 030104622-0004	14th Fl Elevator Lobby	9/20/01	1440.00	25.0	100	0.002	31.85	0.008	
08 030104622-0005	Field blank	9/20/01	0.00	<6.5	100		<7.0		Field Blank
09 030104622-0006	Field blank	9/20/01	0.00	<6.5	100		<7.0		Field Blank

Rey Cross

Analyst


Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/cc. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL.
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PCB-1

1

09/22/2001 09:28

212-290-0058

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PAGE 01/03

New York Lab

307 West 38th Street, New York, NY 10018

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EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
North Brunswick, NJ 08902
Fax: (732) 729-1803 Phone: 732-729-1800
Project: C & W / 115 Broadway / Entire Building

Customer ID: CTSI60
Customer PO:
Received: 09/21/01 8:25 PM
EMSL Order: 030104705
EMSL Project ID:
Analysis Date: 9/21/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ³	Fibers/ cc	Notes
01 030104705-0001	14 floor, W side of the corridor	9/21/2001	1028.00	42.0	100	0.003	53.5	0.020	
02 030104705-0002	15 floor, N side	9/21/2001	900.00	34.0	100	0.003	43.31	0.018	
03 030104705-0003	16 floor, by the elevators	9/21/2001	900.00	62.0	100	0.003	78.88	0.034	
04 030104705-0004	17 floor, by the elevators right side	9/21/2001	820.00	36.0	100	0.003	45.88	0.019	
05 030104705-0005	18 floor on the right from the elevator	9/21/2001	900.00	64.0	100	0.003	81.53	0.035	
06 030104705-0006	1 floor, lobby	9/21/2001	1200.00	21.0	100	0.002	26.75	0.009	
07 030104705-0007	20 floor, on the right from the elevator	9/21/2001	1800.00	85.0	100	0.002	82.8	0.020	
08 030104705-0008	14 floor, west side of the corridor	9/21/2001	1528.00	100.0	88	0.002	144.76	0.038	
09 030104705-0009	18 floor, on the right from the elevator	9/21/2001	1528.00	63.0	100	0.002	80.25	0.020	
10 030104705-0010	1 floor, lobby	9/21/2001	1840.00	45.0	100	0.002	57.32	0.014	
11 030104705-0011	21 floor, in the middle of the corridor	9/21/2001	1200.00	18.0	100	0.002	22.93	0.007	
12 030104705-0012	19 floor, East of the corridor	9/21/2001	1200.00	38.0	100	0.002	48.41	0.016	

Thomas Michel
Analyst


Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm³. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL.
Analysis performed by EMSL Manhattan (NY State ELAP #11806)

PCM 1

1

09/22/2001 09:28

212-290-0058

EMSL MANHATTAN

PAGE 02/03

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0051 Fax: 212-290-0058 Email:

EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
 622 Georges Rd.
 North Brunswick, NJ 08902
 Fax: (732) 729-1803 Phone: 732-729-1800
 Project: C & W / 115 Broadway / Entire Building

Customer ID: CTS150
 Customer PO:
 Received: 09/21/01 8:25 PM
 EMSL Order: 030104705
 EMSL Project ID:
 Analysis Date: 9/21/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ³	Fibers/ cc	Notes
13 030104705-0013	Field Blank	9/21/2001	0.00	<5.5	100		<7.0		Field Blank
14 030104705-0014	Field Blank	9/21/2001	0.00	<5.5	100		<7.0		Field Blank

Thomas Michel

Analyst



Laboratory Manager
 or other approved signatory

Limit of detection is 7 fibers/mm³. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL.
 Analysis performed by EMSL Manhattan (NY State ELAP #11606)

PCM1

09/22/2001 18:21

212-290-0058

EMSL MANHATTAN

PAGE 01

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0051 Fax: 212-290-0058 Email:

EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
North Brunswick, NJ 08902

Fax: (732) 729-1803

Phone: 732-729-1800

Project: Capital Properties / 115 Bway / 11th Fl, 12th Fl

Customer ID: CTSI50

Customer PO:

Received: 09/22/01 7:00 AM

EMSL Order: 030104741

EMSL Project ID:

Analysis Date: 9/22/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/mm ³	Fibers/cc	Notes
1 030104741-0001	1st Fl - Lobby Security Desk	9/21/2001	1820.00	8.6	100	0.001	8.28	0.002	
2 030104741-0002	12th Fl - "W" Stairs	9/21/2001	1820.00	22.5	100	0.001	28.66	0.006	
3 030104741-0003	12th Fl - S-E Side	9/21/2001	1820.00	16.0	100	0.001	20.38	0.004	
4 030104741-0004	11th Fl - "W" Stairs	9/21/2001	1920.00	14.6	100	0.001	18.47	0.004	
5 030104741-0005	11th Fl - Elevator Lobby	9/21/2001	1920.00	24.0	100	0.001	30.57	0.006	
6 030104741-0006	1st Fl Lobby Security Desk	9/21/2001	2000.00	<5.5	100	0.001	<7.0	<0.001	
7 030104741-0007	12th Fl "W" Stairs	9/21/2001	2000.00	9.0	100	0.001	11.46	0.002	
8 030104741-0008	12th Fl S-E Side	9/21/2001	2000.00	<5.5	100	0.001	<7.0	<0.001	
9 030104741-0009	11th Fl "W" Stairs	9/21/2001	2000.00	<5.5	100	0.001	<7.0	<0.001	
10 030104741-0010	11th Fl - Elevator Lobby	9/21/2001	2000.00	9.0	100	0.001	11.46	0.002	
11 030104741-0011	BI	9/21/2001	0.00	<5.5	100		<7.0		Field Blank
12 030104741-0012	BI	9/21/2001	0.00	<5.5	100		<7.0		Field Blank

George Boble

Analyst


 Laboratory Manager
 or other approved signatory

Limit of detection is 7 fibers/mm³. The laboratory is not responsible for data reported in this report which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without written approval by EMSL. Analysis performed by EMSL Manhattan (NY State ELAP #11506)

09/23/2001 20:12 212-290-0058

EMSL MANHATTAN

PAGE 01

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0061 Fax: 212-290-0058 Email:

EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
 822 Georges Rd.
 North Brunswick, NJ 08902
 Fax: (732) 729-1803 Phone: 732-729-1800
 Project: Capital Properties 115 Broadway Entire Building

Customer ID: CTSI50
 Customer PO:
 Received: 09/22/01 7:40 PM
 EMSL Order: 030104772
 EMSL Project ID:
 Analysis Date: 9/23/01

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ³	Fibers/ cc	Notes
01 030104772-0001	Lobby Stairwell	9/22/01	1530.00	84.0	100	0.002	107.01	0.025	
02 030104772-0002	Roof 5' of Exit	9/22/01	1530.00	146.0	100	0.001	185.99	0.040	
03 030104772-0003	21st Floor N-E Side	9/22/01	1060.00	103.0	97	0.002	135.27	0.048	
04 030104772-0004	19th Floor N-W Side	9/22/01	1530.00	107.0	99	0.002	137.88	0.035	
05 030104772-0005	10th Floor N-W Side	9/22/01	1530.00	113.0	100	0.002	143.95	0.036	
06 030104772-0006	8th Floor S-W Side	9/22/01	1530.00	73.0	100	0.002	92.98	0.023	
07 030104772-0007	8th Floor East Side	9/22/01	1920.00	100.0	100	0.001	127.39	0.025	
08 030104772-0008	Lobby Stairwell	9/22/01	1440.00	47.0	100	0.002	59.87	0.016	
09 030104772-0009	Roof 5' of Exit	9/22/01	1440.00	116.0	100	0.002	147.77	0.040	
10 030104772-0010	10th Floor N-W Side	9/22/01	1920.00	98.0	100	0.001	124.84	0.025	
11 030104772-0011	7th Floor S-W Side	9/22/01	1920.00	104.0	100	0.001	132.48	0.027	
12 030104772-0012	8th Floor East Side	9/22/01	1600.00	82.0	100	0.003	104.48	0.040	

Vicky Andrade

Analyst


 Laboratory Manager
 or other approved signatory

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PCMA

1

09/23/2001 20:12

212-290-0058

EMSL MANHATTAN

PAGE 02

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-280-0051 Fax: 212-280-0053 Email:

EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
822 Georges Rd.
North Brunswick, NJ 08902

Fax: (732) 729-1803 Phone: 732-729-1800

Project: Capital Properties 115 Broadway Entire Building

Customer ID: CTSI50

Customer PO:

Received: 09/22/01 7:40 PM

EMSL Order: 030104772

EMSL Project ID:

Analysis Date: 9/23/01

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/mm ³	Fibers/cc	Notes
13	Field Blank	9/22/01	0.00	<5.5	100		<7.0		Field Blank
030104772-0013									
14	Field Blank	9/22/01	0.00	<5.5	100		<7.0		Field Blank
030104772-0014									

Vicky Andrade

Analyst

E. Cahill

Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm³. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL.
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212-290-0058

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PAGE 01

New York Lab

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EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
North Brunswick, NJ 08902
Fax: (732) 729-1803 Phone: 732-729-1800
Project: 115 BROADWAY/7TH FLR/AQ

Customer ID: CTSI50
Customer PO:
Received: 09/23/01 7:00 AM
EMSL Order: 030104782
EMSL Project ID:
Analysis Date: 9/23/01

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/mm ³	Fibers/cc	Notes
1 030104782-0001	1ST FLR E. SIDE LOBBY	9/23/01	1920.00	8.0	100	0.001	7.84	0.002	
2 030104782-0002	1ST FLR W. SIDE LOBBY	9/23/01	1920.00	<5.5	100	0.001	<7.0	<0.001	
3 030104782-0003	7TH FLR BY E. STAIR	9/23/01	1920.00	51.0	100	0.001	64.97	0.013	
4 030104782-0004	7TH FLR BY W. STAIR	9/23/01	1920.00	<5.5	100	0.001	<7.0	<0.001	
5 030104782-0005	7TH FLR BY ELEVATOR LOBBY	9/23/01	1920.00	100.0	82	0.001	155.35	0.031	
6 030104782-0006	1ST FLR EAST SIDE LOBBY	9/23/01	2000.00	10.0	100	0.001	12.74	0.003	
7 030104782-0007	1ST FLR WEST SIDE LOBBY	9/23/01	2000.00	8.0	100	0.001	10.19	0.002	
8 030104782-0008	7TH FLR BY EAST STAIRWELL	9/23/01	2000.00	66.0	100	0.001	84.08	0.016	
9 030104782-0009	7TH FLR BY WEST STAIRWELL	9/23/01	2000.00	60.0	100	0.001	76.43	0.015	
10 030104782-0010	7TH FLR BY ELEVATOR LOBBY	9/23/01	2000.00	49.5	100	0.001	83.06	0.012	
11 030104782-0011	FIELD BLANK	9/23/01	0.00	<5.5	100		<7.0		Field Blank
12 030104782-0012	FIELD BLANK	9/23/01	0.00	<5.5	100		<7.0		Field Blank

George Boble

Analyst

Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm³. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL.
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PCMA

1

New York Lab

307 West 38th Street, New York, NY 10018

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EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
622 George Rd.
North Brunswick, NJ 08902

Fax: (732) 729-1803 Phone: 732-729-1800

Project: **Capital Properties 115 Broadway Entire Bldg.**

Customer ID: CTSI50
Customer PO:
Received: 09/23/01 6:30 PM
EMSL Order: 030104820
EMSL Project ID:
Analysis Date: 9/24/01

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ²	Fibers/ cc	Notes
01 030104820-0001	1st Floor Stairwell	9/23/01	2040.00	34.5	100	0.001	43.95	0.008	
02 030104820-0002	8 Floor Middle Corridor	9/23/01	1920.00	36.0	100	0.001	45.86	0.009	
03 030104820-0003	7 Floor NW Side	9/23/01	1968.00	7.0	100	0.001	8.92	0.002	
04 030104820-0004	6 Floor South Corridor	9/23/01	1872.00	36.5	100	0.001	46.5	0.010	
05 030104820-0005	5th Floor North Side	9/23/01							Overloaded
06 030104820-0006	2nd Floor Elevator Lobby	9/23/01	1200.00	<5.5	100	0.002	<7.0	<0.002	
07 030104820-0007	1st Fl Stairwell	9/23/01	1720.00	6.0	100	0.002	7.64	<0.002	
08 030104820-0008	7th Fl NW Side	9/23/01	1720.00	<5.5	100	0.002	<7.0	<0.002	
09 030104820-0009	6th Fl South Corridor	9/23/01	1720.00	59.5	100	0.002	75.8	0.017	
10 030104820-0010	5th Fl N Side	9/23/01	1720.00	<5.5	100	0.002	<7.0	<0.002	
11 030104820-0011	1st Fl / W Side Lobby	9/23/01	1640.00	<5.5	100	0.002	<7.0	<0.002	
12 030104820-0012	Field Blank	9/23/01	0.00	<5.5	100		<7.0		Field Blank

Rey Cross

Analyst



Laboratory Manager
or other approved signatory

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Phone: 212-290-0051 Fax: 2122900058 Email:

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Attn: CTSI-Consulting & Testing Services, Inc.
622 George Rd.
North Brunswick, NJ 08902
Fax: (732) 729-1803 Phone: 732-729-1800
Project: Capital Properties 115 Broadway Entire Bldg.

Customer ID: CTSI50
Customer PO:
Received: 09/23/01 6:30 PM
EMSL Order: 030104820
EMSL Project ID:
Analysis Date: 9/24/01

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ²	Fibers/ cc	Notes
13	Field Blank	9/23/01	0.00	<5.5	100		<7.0		Field Blank
030104820-0013									

Rey Cross

Analyst

Eric Blum

Laboratory Manager
or other approved signatory

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PCM-1

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Project: 115 Broadway / Entire Bldg

Customer ID: CTSI50
Customer PO:
Received: 09/27/01 3:30 PM
EMSL Order: 030104997
EMSL Project ID:
Analysis Date: 9/27/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ²	Fibers/ cc	Notes
01	19 FI West side	9/27/2001	2025.00	12.0	100	0.001	15.29	0.003	
030104997-0001									
02	19 FI Center	9/27/2001	2025.00	14.0	100	0.001	17.83	0.003	
030104997-0002									
03	19 FI East side	9/27/2001	2025.00	12.0	100	0.001	15.29	0.003	
030104997-0003									
04	18 FI West side	9/27/2001	1800.00	15.0	100	0.001	19.11	0.004	
030104997-0004									
05	18 FI Center	9/27/2001	1800.00	12.5	100	0.001	15.92	0.003	
030104997-0005									
06	18 FI East Side	9/27/2001	1800.00	23.0	100	0.001	29.3	0.006	
030104997-0006									
07	17 FI West Side	9/27/2001	1860.00	25.0	100	0.001	31.85	0.007	
030104997-0007									
08	17 FI Center	9/27/2001	1860.00	16.0	100	0.001	20.38	0.004	
030104997-0008									
09	17 FI East Side	9/27/2001	1860.00	26.0	100	0.001	33.12	0.007	
030104997-0009									
10	16 FI West Side	9/27/2001	1950.00	19.0	100	0.001	24.2	0.005	
030104997-0010									
11	16 FI Center	9/27/2001	1950.00	24.0	100	0.001	30.57	0.006	
030104997-0011									
12	16 FI East Side	9/27/2001	1950.00	22.5	100	0.001	28.66	0.006	
030104997-0012									

Thomas Michel

Analyst

Eric B. B.

Laboratory Manager
or other approved signatory

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Attn: CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
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Fax: (732) 729-1803 Phone: 732-729-1800

Project: 115 Broadway / Entire Bldg

Customer ID: CTSI50
Customer PO:
Received: 09/27/01 3:30 PM
EMSL Order: 030104997
EMSL Project ID:
Analysis Date: 9/27/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ²	Fibers/ cc	Notes
13 030104997-0013	15 FI West Side	9/27/2001	1950.00	17.0	100	0.001	21.66	0.004	
14 030104997-0014	15 FI Center	9/27/2001	1950.00	18.5	100	0.001	23.57	0.005	
15 030104997-0015	15 FI East Side	9/27/2001	1950.00	<5.5	100	0.001	<7.0	<0.001	
16 030104997-0016	14 FI West Side	9/27/2001	1875.00	28.0	100	0.001	35.67	0.007	
17 030104997-0017	14 FI Center	9/27/2001	1875.00	15.0	100	0.001	19.11	0.004	
18 030104997-0018	14 FI East Side	9/27/2001	1875.00	7.0	100	0.001	8.92	0.002	
19 030104997-0019	13 FI West Side	9/27/2001	1800.00	29.0	100	0.001	36.94	0.008	
20 030104997-0020	13 FI Center	9/27/2001	1800.00	20.0	100	0.001	25.48	0.005	
21 030104997-0021	13 FI East Side	9/27/2001	1800.00	27.0	100	0.001	34.39	0.007	
22 030104997-0022	12 FI West Side	9/27/2001	1800.00	8.0	100	0.001	10.19	0.002	
23 030104997-0023	12 FI Center	9/27/2001	1800.00	11.0	100	0.001	14.01	0.003	
24 030104997-0024	12 FI East Side	9/27/2001	1800.00	6.5	100	0.001	8.28	0.002	

Thomas Michel

Analyst

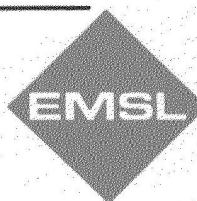


Laboratory Manager
or other approved signatory

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PCM-1



New York Lab

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Attn: CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
North Brunswick, NJ 08902
Fax: (732) 729-1803 Phone: 732-729-1800
Project: 115 Broadway / Entire Bldg

Customer ID: CTSI50
Customer PO:
Received: 09/27/01 3:30 PM
EMSL Order: 030104997
EMSL Project ID:
Analysis Date: 9/27/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ²	Fibers/ cc	Notes
25 030104997-0025	11 FI West Side	9/27/2001	1830.00	6.0	100	0.001	7.64	0.002	
27 030104997-0027	11 FI east Side	9/27/2001	1830.00	10.0	100	0.001	12.74	0.003	
28 030104997-0028	10 FI West Side	9/27/2001	1830.00	5.5	100	0.001	7.01	0.002	
29 030104997-0029	10 FI Center	9/27/2001	1800.00	6.0	100	0.001	7.64	0.002	
30 030104997-0030	10 FI East side	9/27/2001	1800.00	11.5	100	0.001	14.65	0.003	
31 030104997-0031	Blank	9/27/2001	1800.00	7.0	100	0.001	8.92	0.002	
32 030104997-0032	Blank	9/27/2001	0.00	<5.5	100		<7.0		Field Blank
33 030104997-0033	Blank	9/27/2001	0.00	<5.5	100		<7.0		Field Blank

Thomas Michel

Analyst

Laboratory Manager
or other approved signatory

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PCM 1

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EMSL

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Fax: (732) 729-1803 Phone: 732-729-1800
Project: 115 Broadway / Entire Bldg

Customer ID: CTSI50
Customer PO:
Received: 09/28/01 5:30 PM
EMSL Order: 030105088
EMSL Project ID:
Analysis Date: 9/29/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ²	Fibers/ cc	Notes
01 030105088-0001	9th FI West side	9/28/2001	2025.00	<5.5	100	0.001	<7.0	<0.001	
02 030105088-0002	9th FI Center	9/28/2001	2025.00	<5.5	100	0.001	<7.0	<0.001	
03 030105088-0003	9th FI East side	9/28/2001	2025.00	<5.5	100	0.001	<7.0	<0.001	
04 030105088-0004	8th FI West side	9/28/2001	2010.00	<5.5	100	0.001	<7.0	<0.001	
05 030105088-0005	8th FI Center	9/28/2001	2010.00	<5.5	100	0.001	<7.0	<0.001	
06 030105088-0006	8th FI East side	9/28/2001	2010.00	<5.5	100	0.001	<7.0	<0.001	
07 030105088-0007	7th FI West side	9/28/2001	1995.00	<5.5	100	0.001	<7.0	<0.001	
08 030105088-0008	7th FI Center	9/28/2001	1995.00	<5.5	100	0.001	<7.0	<0.001	
09 030105088-0009	7th FI East side	9/28/2001	1995.00	<5.5	100	0.001	<7.0	<0.001	
10 030105088-0010	6th FI West side	9/28/2001	1980.00	<5.5	100	0.001	<7.0	<0.001	
11 030105088-0011	6th FI Center	9/28/2001	1980.00	<5.5	100	0.001	<7.0	<0.001	
12 030105088-0012	6th FI East side	9/28/2001	1980.00	<5.5	100	0.001	<7.0	<0.001	

Rey Cross

Analyst



Laboratory Manager
or other approved signatory

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PCM-1

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Phone: 212-290-0051 Fax: 2122900058 Email:

EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
North Brunswick, NJ 08902

Fax: (732) 729-1803 Phone: 732-729-1800

Project: 115 Broadway / Entire Bldg

Customer ID: CTSI50
Customer PO:
Received: 09/28/01 5:30 PM
EMSL Order: 030105088
EMSL Project ID:
Analysis Date: 9/29/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ²	Fibers/ cc	Notes
13 030105088-0013	5th FI West side	9/28/2001	1905.00	<5.5	100	0.001	<7.0	<0.001	
14 030105088-0014	5th FI Center	9/28/2001	1905.00	<5.5	100	0.001	<7.0	<0.001	
15 030105088-0015	5th FI East side	9/28/2001	1905.00	<5.5	100	0.001	<7.0	<0.001	
16 030105088-0016	4th FI West side	9/28/2001	1980.00	6.0	100	0.001	7.64	0.002	
17 030105088-0017	4th FI Center	9/28/2001	1980.00	<5.5	100	0.001	<7.0	<0.001	
18 030105088-0018	4th FI East side	9/28/2001	1980.00	<5.5	100	0.001	<7.0	<0.001	
19 030105088-0019	3rd FI West side	9/28/2001	1950.00	15.0	100	0.001	19.11	0.004	
20 030105088-0020	3rd FI Center	9/28/2001	1950.00	16.5	100	0.001	21.02	0.004	
21 030105088-0021	3rd FI East side	9/28/2001	1950.00	8.0	100	0.001	10.19	0.002	
22 030105088-0022	2nd FI West side	9/28/2001	1875.00	<5.5	100	0.001	<7.0	<0.001	
23 030105088-0023	2nd FI Center	9/28/2001	1875.00	<5.5	100	0.001	<7.0	<0.001	
24 030105088-0024	2nd FI East side	9/28/2001	1875.00	<5.5	100	0.001	<7.0	<0.001	

Rey Cross

Analyst



Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL.

Analysis performed by EMSL Manhattan (NY State ELAP #11506)

PCM-1

2

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0051 Fax: 2122900058 Email:

EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
North Brunswick, NJ 08902

Fax: (732) 729-1803 Phone: 732-729-1800

Project: 115 Broadway / Entire Bldg

Customer ID: CTSI50
Customer PO:
Received: 09/28/01 5:30 PM
EMSL Order: 030105088
EMSL Project ID:
Analysis Date: 9/29/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ²	Fibers/ cc	Notes
25 030105088-0025	Basement West side	9/28/2001	1800.00	7.0	100	0.001	8.92	0.002	
26 030105088-0026	Basement Center	9/28/2001	1800.00	6.5	100	0.001	8.28	0.002	
27 030105088-0027	Basement East side	9/28/2001	1800.00	18.5	100	0.001	23.57	0.005	
28 030105088-0028	Lobby West side	9/28/2001	1800.00	7.0	100	0.001	8.92	0.002	
29 030105088-0029	Lobby Center	9/28/2001	1800.00	10.0	100	0.001	12.74	0.003	
30 030105088-0030	Lobby East side	9/28/2001	1800.00	9.5	100	0.001	12.1	0.003	
001 030105088-0031	111 Broadway 18th FL S-W side	9/28/2001	1800.00	9.0	100	0.001	11.46	0.003	
002 030105088-0032	115 Broadway Trinity Level Center	9/28/2001	1480.00	6.0	100	0.002	7.64	0.002	
31 030105088-0033	Blank	9/28/2001	0.00	<5.5	100		<7.0		Field Blank
32 030105088-0034	Blank	9/28/2001	0.00	<5.5	100		<7.0		Field Blank
33 030105088-0035	Blank	9/28/2001	0.00	<5.5	100		<7.0		Field Blank
34 030105088-0036	Blank	9/28/2001	0.00	<5.5	100		<7.0		Field Blank

Rey Cross

Analyst


 Laboratory Manager
or other approved signatory

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Analysis performed by EMSL Manhattan (NY State ELAP #11506)

PCM-1

3

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0051 Fax: 2122900058 Email:

EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
North Brunswick, NJ 08902

Fax: (732) 729-1803 Phone: 732-729-1800

Project: 115 Broadway / 22nd Floor

Customer ID: CTSI50
Customer PO:
Received: 10/01/01 8:15 PM
EMSL Order: 030105239
EMSL Project ID:
Analysis Date: 10/1/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ²	Fibers/ cc	Notes
01 030105239-0001	Trinity Level Center	10/1/2001	1440.00	12.0	100	0.002	15.29	0.004	
02 030105239-0002	22nd Floor West side	10/1/2001	1520.00	29.0	100	0.002	36.94	0.009	
03 030105239-0003	22nd Floor East side	10/1/2001	1520.00	39.5	100	0.002	50.32	0.013	✓
04 030105239-0004	22nd Floor West side	10/1/2001	1000.00	43.0	100	0.003	54.78	0.021	✓
05 030105239-0005	22nd Floor East side	10/1/2001	1000.00	31.0	100	0.003	39.49	0.015	✓
06 030105239-0006	Trinity Level / West side	10/1/2001	1800.00	6.0	100	0.001	7.64	0.002	
07 030105239-0007	Trinity Level / Center	10/1/2001	1800.00	10.0	100	0.001	12.74	0.003	
08 030105239-0008	Trinity Level / East side	10/1/2001	1800.00	16.0	100	0.001	20.38	0.004	
09 030105239-0009	22nd Floor West side	10/1/2001	1800.00	11.0	100	0.001	14.01	0.003	
10 030105239-0010	22nd Floor Center	10/1/2001	1800.00	14.0	100	0.001	17.83	0.004	
11 030105239-0011	22nd Floor East side	10/1/2001	1800.00	8.0	100	0.001	10.19	0.002	
12 030105239-0012	Blank	10/1/2001	0.00	<5.5	100		<7.0		Field Blank

Ram Yallabandi

Analyst



Laboratory Manager
or other approved signatory

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Analysis performed by EMSL Manhattan (NY State ELAP #11506)

PCM-1

1

New York Lab

307 West 38th Street, New York, NY 10018

Phone: 212-290-0051 Fax: 2122900058 Email:

EMSL

Attn: CTSI-Consulting & Testing Services, Inc.
622 Georges Rd.
North Brunswick, NJ 08902
Fax: (732) 729-1803 Phone: 732-729-1800
Project: 115 Broadway / 22nd Floor

Customer ID: CTSI50
Customer PO:
Received: 10/01/01 8:15 PM
EMSL Order: 030105239
EMSL Project ID:
Analysis Date: 10/1/2001

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm ²	Fibers/ cc	Notes
13	Blank	10/1/2001	0.00	<5.5	100		<7.0		Field Blank
030105239-0013									

Ram Yallabandi

Analyst



Laboratory Manager
or other approved signatory

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Analysis performed by EMSL Manhattan (NY State ELAP #11506)

PCM-1



**AIR QUALITY TESTING
DUST PARTICULATES**
115 Broadway, Entire 9/28/01

Location-Floor-Suite	Dust Particulate Standard= 15,000 ug/m ³
Roof-NW Corner	269.8
22 nd Fl.-E	178.1
22 nd Fl.-C	245.6
22 nd Fl.-W	198.1
21 st Fl.-E	532.2
21 st Fl.-C	175.2
21 st Fl.-W	248.2
20 th Fl.-E	178.0
20 th Fl.-C	144.0
20 th Fl.-W	115.5
19 th Fl.-E	101.6
19 th Fl.-C	106.0
19 th Fl.-W	107.6
18 th Fl.-E	93.7
18 th Fl.-C	98.5
18 th Fl.-W	105.8
17 th Fl.-E	188.0
17 th Fl.-C	182.0
17 th Fl.-W	170.5
16 th Fl.-E	170.7
16 th Fl.-C	170.7
16 th Fl.-W	170.7
15 th Fl.-E	86.4
15 th Fl.-C	113.6
15 th Fl.-W	88.7
14 th Fl.-E	95.4
14 th Fl.-C	106.8
14 th Fl.-W	86.9
13 th Fl.-E	204.9
13 th Fl.-C	300.2
13 th Fl.-W	146.8
12 th Fl.-E	106.8
12 th Fl.-C	97.4
12 th Fl.-W	89.4
11 th Fl.-E	99.4
11 th Fl.-C	123.8
11 th Fl.-W	114.1
10 th Fl.-E	107.3
10 th Fl.-C	91.2
10 th Fl.-W	103.9



**AIR QUALITY TESTING
DUST PARTICULATES**
115 Broadway, Entire 9/28/01

Location-Floor-Suite	Dust Particulate Standard= 15,000 ug/m ³
9 th Fl.-E	94.3
9 th Fl.-C	88.0
9 th Fl.-W	128.3
8 th Fl.-E	84.2
8 th Fl.-C	114.5
8 th Fl.-W	107.9
7 th Fl.-E	100.2
7 th Fl.-C	130.7
7 th Fl.-W	123.3
6 th Fl.-E	114.0
6 th Fl.-C	160.0
6 th Fl.-W	101.6
5 th Fl.-E	132.1
5 th Fl.-C	114.8
5 th Fl.-W	175.2
4 th Fl.-E	108.7
4 th Fl.-C	117.4
4 th Fl.-W	141.1
3 rd Fl.-E	151.0
3 rd Fl.-C	132.1
3 rd Fl.-W	126.4
2 nd Fl.-E	175.2
2 nd Fl.-C	139.6
2 nd Fl.-W	183.8
1 st Fl.-E	261.0
1 st Fl.-C	225.8
1 st Fl.-W	132.9
Sidewalk	269.7





NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
Asbestos Control Program
59-17 Junction Boulevard, 8th Floor, Corona, NY 11368-5107

ONLY TYPEWRITTEN FORMS WILL BE ACCEPTED

1260 MNY
Building Dept. or TRU No FOR OFFICIAL USE ONLY

1. 1,200
(See fee schedule)

ASBESTOS PROJECT NOTIFICATION
(ASBESTOS INSPECTION REPORT)

When submitting this form at the NYC Department of Buildings, the original form and three (3) copies with original signatures are required. Submittal at the NYCDEP requires one copy of the form with original signatures. This form must be submitted to the NYC DEP not less than one week in advance of the start of abatement activities.

I. FACILITY

2. Address 115 Broadway Borough Manhattan Zip 10006
AKA _____ 3. Block 50 4. Lot 1
5. Type of Facility Office building 6. Name of Building _____

II. BUILDING OWNER

7. Name Trinity Center LLC 8. Contact Person Kevin Hoey
9. Tel. # (212) 385-1200 Fax # (212) 385-1883
10. Address 527 Madison Avenue City Manhattan State NY Zip 10022

III. GENERAL CONTRACTOR

11. Name NA Tel. # _____

IV. ASBESTOS ABATEMENT CONTRACTOR

12. Name Complete Environmental Services, Inc. 13. Contact Person Brian Griffiths
14. Federal Employer ID. # PII 15. Tel. # (516) 766-7900 Fax # (516) 766-7901
16. Address 3500-A Hampton Road City Oceanside State NY Zip 11572

V. THIRD PARTY AIR MONITOR

17. Name CTSI 18. Contact Person Frank Salami
19. Federal Employer ID. # PII 20. Tel. # (732) 729-1800 Fax # (732) 729-1803
21. Address 622 Georges Road Suite 301 City North Brunswick State NJ Zip 08902
22. Sample Analysis Laboratory EMSL 23. NYS DOH ELAP # 11506

VI. PROJECT INFORMATION

24. Starting date for this portion of work 9/19/01 Projected completion date 10/1/01

Asbestos work schedule ☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☒ Saturday ☒ Sunday

Shift from: 6 ☒ am ☐ pm to 6 ☒ am ☐ pm

If other, specify _____

Access to inspect the premises must be provided during the work schedule indicated in this item.

25. Total amount of asbestos-containing material to be abated during this work

386,000 Square Feet, and/or 0 Linear Feet



ACP 7
2/2001

Ok to accept due to the nature of Natural Emergency of World Trade Center Catastrophe.
10/15/01 *LP*



October 15, 2001

Mr. R. Radhakrishnan, P.E. – Director
**NEW YORK CITY DEPARTMENT OF
ENVIRONMENTAL PROTECTION**
Asbestos Control Program
59-17 Junction Blvd. / 8th Floor
Corona, NY 11368-5107



**RE: 115 BROADWAY, WORLD TRADE CENTER TRAGEDY
EMERGENCY CLEANUP**

Dear Mr. Radhakrishnan:

For your review and consideration, attached, please find an emergency clean up scope of work and ACP-7 form. This submission is based on our telephone conversation October 10, 2001.

A licensed asbestos contractor, as presented in the attached scope of work, performed all work and continual air monitoring was performed by CTSI.

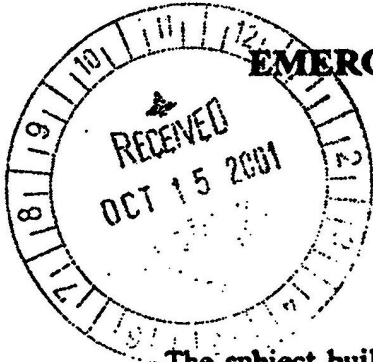
I thank you for your time and consideration. Should you need any further information, please do not hesitate to call my office.

Sincerely,

CONSULTING & TESTING SERVICES, INC.

Frank Salami
President

Attch.



**SCOPE OF WORK FOR
EMERGENCY CLEAN-UP OF DUST DAMAGED SURFACES
115 BROADWAY, ENTIRE BUILDING
NEW YORK, NEW YORK**

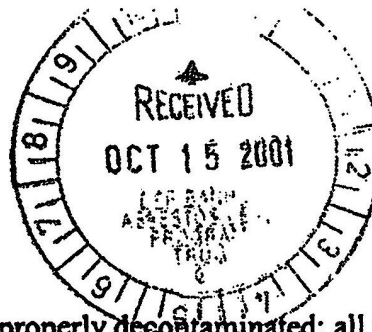
The subject building is situated diagonally across from the World Trade Center on the south side adjacent to Liberty Plaza Park. The dust and debris entered the building via open and broken windows. The lower floors accumulation of dust was more than the upper floors.

The building consists of main lobby on Broadway & Trinity Side, 21 floors ($\approx$ 19,000 SF/F1.), Penthouse and basement. Building personnel immediately had the building HVAC system shut down. All power to the building was lost, including the use of the elevators.

The project began on September 19th and completed by October 1st, 2001. Following the evaluation of the entire building, the following remediation plan was implemented:

- 1 The clean-up was performed by a licensed Asbestos contractor (Complete Environmental Services, Inc. A/K/A COMCO) and monitored by CTSI;
- 2 All affected areas were restricted to emergency response personnel;
- 3 All emergency response personnel working in the building were wear appropriate personal protective equipment, upon exiting the





- area, all workers were properly decontaminated; all waste generated were disposed of as per NYC DEP regulations;
- 4 A remote decon was setup within the building;
 - 5 The cleanup began in the Main lobby on the Broadway side. Then, the lobby was utilized as a staging area for personnel and supplies;
 - 6 All rags used and used disposable PPE were discarded as asbestos waste;
 - 7 All debris was constantly misted to keep dust levels to a minimum;
 - 8 Air monitoring was performed on a continual basis until the completion of the remediation; all clearance air sample results are attached for your review;
 - 9 All waste generated were properly bagged and labeled for disposal, all waste manifests are attached for your review.

