



J. C. Broderick & Associates
Environmental Engineers

October 23, 2001

Mr. Howard Berman
69 Murray Street Housing Coop.
69 Murray Street
New York, New York 10007

Re: **Ambient Asbestos Air Quality Sampling Report Letter**
Utilizing Transmission Electron Microscopy (TEM) Method of Analysis at
69 Murray Street
8th Floor Apartment
New York, New York 10007
October 20, 2001

JCB# 01-2273

Dear Mr. Berman:

J.C. Broderick & Associates, Inc. (JCB) was retained to perform ambient asbestos in air sampling and analysis at the above referenced site. The air sampling was performed on October 20, 2001 by a JCB New York State certified air sampling technician. Samples were collected, chain of custody forms prepared, and delivered to an independent ELAP certified laboratory for the presence of asbestos fibers by Transmission Electron Microscopy (TEM).

The TEM analysis involves collecting airborne contaminants across the face of a polycarbonate or mixed cellulose ester filter. Again, air is drawn across prescreened filters by the use of portable large volume vacuum pumps. Prior to analyzing, the filter media is collapsed using an acetone vapor technique and then plasma etched. Then fiber structures are counted and analyzed using electron diffraction patterns and, in some cases, energy dispersive X-rays. Under this methodology, all fibers with a aspect ratio greater than 5:1 and a length of at least 0.5 micrometers are counted. TEM analysis can positively identify these fibers as asbestos or non-asbestos.

The United States Environmental Protection Agency (US EPA), as indicated in 40 CFR Part 763 Section 90, considers remediation activities complete when the average concentration of asbestos fibers as analyzed by TEM method does not exceed 70 s/mm². As you can see from the attached laboratory report none of samples analyzed revealed concentrations of asbestos fibers.

Attached please find a copy of the chain of custody, lab analysis report and a copy of JCB's asbestos handling license. If you have any questions or if more information is needed please call.

Sincerely,

Kevin J. Kortlang
J.C. BRODERICK & ASSOCIATES, INC.

attachments

J.C. Broderick & Associates, Inc. Asbestos Certification



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

RESTRICTED LICENSE - NO ASBESTOS REMOVAL PERMITTED

LICENSE NUMBER: 99-0303
DATE OF ISSUE: 06/01/01
EXPIRATION DATE: 06/30/02



Contractor: J.C. Broderick & Associates, Inc.

Address: 101-4 Colin Drive
Holbrook, NY 11741

Duly Authorized Representative: Brendan Broderick

This license has been issued in accordance with applicable provisions of Article 30 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 Cucolo, Director
FOR THE COMMISSIONER OF LABOR

SH 432 (10-00)

KEVIN J. KORTLANG

MUST BE CARRIED ON ASBESTOS PROJECTS	
CERTIFICATE NUMBER	
PII	
DUSH-442 (01/71)	
STATE OF NEW YORK DEPARTMENT OF LABOR DIVISION OF SAFETY AND HEALTH	
ASBESTOS HANDLING CERTIFICATE AUTHORIZED CLASS C - SAMPLING TECHNICIAN (02/02)	
KEVIN J. KORTLANG	
PII	
RICHARD CUCOLO, Director - For the Commissioner of Labor	

MUST BE CARRIED ON ASBESTOS PROJECTS
CERTIFICATE NUMBER

PII



STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES
C - SAMPLING TECHNICIAN (03/03)
H - PROJECT MONITOR (03/03)

BORISLAV VESTFRID

PII

RICHARD CUCOLO, Director - For the Commissioner of Labor
NYC 111-422 (01/01)

MUST BE CARRIED ON ASBESTOS PROJECTS
CERTIFICATE NUMBER

PII

DOSH-442 (01/91)



STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES
C - SAMPLING TECHNICIAN (01/02)
H - PROJECT MONITOR (01/02)

IGOR LYUSHNEVSKIY

PII

RICHARD CUCOLO, Director - For the Commissioner of Labor

CHAIN OF CUSTODY DOCUMENT

JCB

J.C. Broderick & Associates
101-4 Colin Drive, Holbrook, NY 11741
631-419-0913 • Fax: 631-584-3395

Bill To: J.C. Broderick & Associates
Accounts Payable
101-4 Colin Drive, Holbrook, NY 11741

030106667

Expected Date of Completion

Laboratory:

Project Name: 69 Murray st				Project Manager: Karin Kortlang				Sampler (Signature): <i>Karin Kortlang</i>				Analysis Date: ☐ 6 HR ☒ 12 HR ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 4 DAY ☐ 5 DAY ☐ 6-10 DAY			
Project Location: 69 Murray st.				Project Number				Samplers Name (Print): Boris Vestris							
Client Name: <i>Exhibit</i>				Sample Location / Description				Time (min.) →				← L/min →			
SAMPLE INFO		Project Phase		Type		*A=Air B=Bulk W=Water I=Wipe		Start		Finish		Volume		Method	
Sample ID	Date	Sample Location / Description		Type		*A=Air B=Bulk W=Water I=Wipe		Start		Finish		Volume		Method	
1 01	10/20/01	inside the master bedroom.		TEM				1800		2010		130		10 1300	
2 02		in the hall way between bedroom + <i>and bedroom.</i>		TEM				1801		2011		130		10 1300	
3 03		in the hall way by the entrance to <i>apartment</i>		TEM				1802		2012		130		10 1300	
4 04		Blank													
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															

Relinquished by (Signature): <i>[Signature]</i>	Date	Printed Name & Agent:	Relinquished by (Signature):	Date	Printed Name & Agent:
Relinquished by (Signature): <i>[Signature]</i>	Date	Printed Name & Agent:	Received for Lab by (Signature):	Date	Printed Name & Agent:
Comments & Special Instructions					
Fax Results to 631-584-3395					

OCT 20 2001

BY: *GL* 9:13 pm

White - Laboratory

Yellow - Office

Pink - Field

New York Lab

307 West 38th Street, New York, NY 10018

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

EMSL

Attn: J.C. Broderick & Associates
101-4 Colin Drive
Holbrook, NY 11741

Fax: (631) 584-3395
Project: 69 Murray St/Ambient

Phone: 631-419-0913

Customer ID: +03JCBROD
Customer PO:
Received: 10/20/01 9:15 PM
EMSL Order: 030106667
EMSL Project ID:

Analysis Date: 10/21/2001

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structure 0.5µ - 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²) (S/cc)	Notes
01 030106667-0001	1300.00	0.0625	1	None Detected		0.0047	<16.00 <0.0047	
02 030106667-0002	1300.00	0.0625	1	None Detected		0.0047	<16.00 <0.0047	
03 030106667-0003	1300.00	0.0625		None Detected		0.0047	<16.00 <0.0047	

Ghayath Elias

Analyst



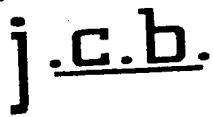
Laboratory Manager
or other approved signatory

Disclaimers: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101048-9, NY State ELAP #11506

TEM AHERA-1

1



J. C. Broderick & Associates
Environmental Engineers

October 23, 2001

Mr. Howard Berman
69 Murray Street Housing Coop.
69 Murray Street
New York, New York 10007

Re: **Ambient Asbestos Air Quality Sampling Report Letter
Utilizing Transmission Electron Microscopy (TEM) Method of Analysis at
69 Murray Street
Penthouse Suite
New York, New York 10007
October 18, 2001**

JCB# 01-2273

Dear Mr. Berman:

J.C. Broderick & Associates, Inc. (JCB) was retained to perform ambient asbestos in air sampling and analysis at the above referenced site. The air sampling was performed on October 18, 2001 by a JCB New York State certified air sampling technician. Samples were collected, chain of custody forms prepared, and delivered to an independent ELAP certified laboratory for the presence of asbestos fibers by Transmission Electron Microscopy (TEM).

The TEM analysis involves collecting airborne contaminants across the face of a polycarbonate or mixed cellulose ester filter. Again, air is drawn across prescreened filters by the use of portable large volume vacuum pumps. Prior to analyzing, the filter media is collapsed using an acetone vapor technique and then plasma etched. Then fiber structures are counted and analyzed using electron diffraction patterns and, in some cases, energy dispersive X-rays. Under this methodology, all fibers with a aspect ratio greater than 5:1 and a length of at least 0.5 micrometers are counted. TEM analysis can positively identify these fibers as asbestos or non-asbestos.

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Attached please find a copy of the chain of custody, lab analysis report and a copy of JCB's asbestos handling license. If you have any questions or if more information is needed please call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kevin J. Kortlang'.

Kevin J. Kortlang
J.C. BRODERICK & ASSOCIATES, INC.

attachments

101-4 Colin Drive, Holbrook, NY 11741-Tel: 631-419-0913 - 631-584-5492 - FAX: 631-584-3395

J.C. Broderick & Associates, Inc. Asbestos Certification



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

RESTRICTED LICENSE - NO ASBESTOS REMOVAL PERMITTED

LICENSE NUMBER: 99-0503
DATE OF ISSUE: 06/01/01
EXPIRATION DATE: 06/30/02



Contractor: J.C. Broderick & Associates, Inc.

Address: 101-4 Colin Drive
Holbrook, NY 11741

Duly Authorized Representative: Brendan Broderick

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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 Cucolo, Director
FOR THE COMMISSIONER OF LABOR

SH 432 (10-00)

KEVIN J. KORTLANG

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DUSH-442 (01/91)	
STATE OF NEW YORK DEPARTMENT OF LABOR DIVISION OF SAFETY AND HEALTH	
ASBESTOS HANDLING CERTIFICATE AUTHORIZED CLASS C - SAMPLING TECHNICIAN (02/02)	
KEVIN J. KORTLANG	
PII	
RICHARD CUCOLO, Director - For the Commissioner of Labor	

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CERTIFICATE NUMBER

PII

DOSH-442 (01/91)



STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES
C - SAMPLING TECHNICIAN (01/02)
H - PROJECT MONITOR (01/02)

RICHARD LYUSHNEVSKIY

PII

RICHARD CUCOLO, Director - For the Commissioner

MUST BE CARRIED ON ASBESTOS PROJECTS
CERTIFICATE NUMBER

PII



STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES
C - SAMPLING TECHNICIAN (03/03)
H - PROJECT MONITOR (03/03)

RORISLAV VESTFRID

PII

RICHARD GUCOLO, Director - For the Commissioner of Labor

APRIL 14, 2004

TOTAL P.01

JCB

030106535 (Temahera)
CHAIN OF CUSTODY DOCUMENT

J.C. Broderick & Associates

 101•4 Colin Drive, Holbrook, NY 11741
 631-419-0913 • Fax: 631-584-3395

Bill To: J.C. Broderick & Associates

 Accounts Payable
 101•4 Colin Drive, Holbrook, NY 11741

 Final TEM
 10-18-01

 Expected Date of Completion
 Laboratory:

Project Name: 69 Murray St

Project Manager Kevin Fortlang

Sampler (Signature): Lyushneuskay

Project Location: 69 Murray St. N.Y

Samplers Name (Print): Igor Lyushneuskay

Client Name: 69 Murray St

Project Number

☐ 6 HR ☒ 12 HR ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 4 DAY ☐ 5 DAY ☐ 6-10 DAY

SAMPLE INFO

Project Phase

☒ A ☐ B=Bulk W=Water I=Wipe

Sample ID	Date	Type	Sample Location / Description	Lab #	Start	Finish	Total	Start	Finish	Liters	Analysis	Analysis Date
1	10/8/01	A	inside work area near ext. door		18:31	20:46	135	10	10	1350		
2			inside work area near staircase		18:38	20:48	135	10	10	1350		
3			inside work area near elevators		18:36	20:51	135	10	10	1350		
4			outside w/1A near entrance door		18:40	20:50	135	10	10	1350		
5			outside w/1A by the artificial barrier		18:42	20:57	135	10	10	1350		
6			outside w/1A on baseboard		18:45	21:00	135	10	10	1350		
7			F.B.									
8			F.B.									
9			S.B.									
10												
11												
12												
13												
14												
15												

Relinquished by (Signature):

Date 10/8/01

Printed Name & Agent:

Relinquished by (Signature):

Date

Printed Name & Agent:

Relinquished by (Signature):

Date

Printed Name & Agent:

Received for Lab by (Signature):

Date

Printed Name & Agent:

Comments & Special Instructions

Fax Results to 631-584-3395

White - Laboratory

Yellow - Office

Pink - Field

New York Lab

307 West 38th Street, New York, NY 10018

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

EMSL

Attn: Kevin Kortlays
J.C. Broderick & Associates
101-4 Colin Drive
Holbrook, NY 11741

Fax: (631) 584-3395

Phone: 631-419-0913

Project: 69 Murray St., NY

Customer ID: +03JCBROD

Customer PO:

Received: 10/18/01 9:50 PM

EMSL Order: 030106535

EMSL Project ID:

Analysis Date: 10/19/2001

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structure 0.5µ - 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²) (S/cc)	Notes
030106535-0001	1350.00	0.0625	0	None Detected		0.0046	<16.00 <0.0046	
030106535-0002	1350.00	0.0625	0	None Detected		0.0046	<16.00 <0.0046	
030106535-0003	1350.00	0.0625	0	None Detected		0.0046	<16.00 <0.0046	
030106535-0004	1350.00	0.0625	0	None Detected		0.0046	<16.00 <0.0046	
030106535-0005	1350.00	0.0625	0	None Detected		0.0046	<16.00 <0.0046	
030106535-0006	1350.00	0.0625	0	None Detected		0.0046	<16.00 <0.0046	

Ed Cahill

Analyst



Laboratory Manager
or other approved signatory

Disclaimers: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101048-9, NY State ELAP #11506

TEM AHERA-1

1