

MAY-10-2002 16:25

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BULK ASBESTOS ANALYSIS RESULTS**PLM Analysis Methodology**

The samples were analyzed by industry accepted methods in accordance with EPA and ELAP methods using Polarized Light Microscopy (PLM) with dispersion staining in conjunction with stereoscopical analysis. Point counts are performed on samples regulated by these agencies. The Environmental Laboratory Approval Program (ELAP) has determined that analysis of non-friable organically bound materials (i.e. floor tile, roofing, etc.) is not reliable when performed by Polarized Light Microscopy (PLM) method. Therefore, if this analysis included that of non-friable materials under PLM and the results were negative, ATC must add this disclaimer to maintain our ELAP accreditation:

"Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing".

Samples that are layered and analyzed by the gravimetric method as composites (NESHAP, AHERA) should be considered positive if results are between trace and 1%, unless every layer is analyzed separately.

EPA does not regulate mixed mineral assemblage like the anthophyllite-talc intergrowth that is found in paint and caulking unless these materials contain asbestos in an amount greater than 1%. Anthophyllite detected in paint and caulking samples might be a talc intergrowth.

ATC has the capability of performing TEM confirmation if so desired.

All bulk sample reports are checked and reviewed two times. Unused portions of samples are archived for three months unless client requests special handling. This report must not be used by the client to claim product endorsement by NIST or any agency of the U.S. government.

ATC Associates Inc. is not responsible for sample collection and analytical procedures not performed by our laboratory. This report may not be reproduced in part without the laboratory permission.

ATC Associates will not be liable for analytical results from samples that are not prepared according to the standard methods (EPA, ELAP, etc.) used by the laboratory (e.g. composite samples from different locations, samples with insufficient volumes, straight TEM samples without gravimetric procedures, and dust samples).

Laboratory Equipment

Laboratory analysis was accomplished utilizing Olympus BH-2 Microscopes.

Quality Control

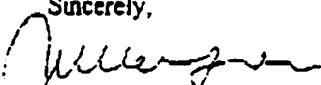
ATC Associates Inc. is accredited by NVLAP (Lab Code 1187-00) and NY State DOH ELAP (Lab ID 10879) for bulk and air fiber analyses. ATC participates in the Bulk Asbestos Sample Quality Assurance Programs for NVLAP and ELAP and maintains an in-house QC/QA program for bulk samples whereby 10% of all submitted samples are reanalyzed and documented in a Quality Control Manual. ATC also participates in a quarterly round robin QC/QA program for bulk samples with several accredited laboratories throughout the United States. Current and past QC/QA program results are available in the laboratory for inspection.

Accuracy and Precision

The phase abundances provided by point count may be considered within the limits of variability inherent in the method employed. The sample results are accurate to within +/-5-10 percent measured by the calibrated visual estimate method. For point counts the detection limit of 0.25% is based on one asbestos point counted over 400 non-empty points. If <1 point counted and asbestos is detected, a trace result will be reported. Trace is < 1% ACM.

The analyses were supervised by Milena Lowd, Director of Laboratory Services, who has extensive experience in asbestos analysis by PLM and other methods. Please contact me regarding any questions relating to these materials at 212-353-8280 Ext. 247.

Sincerely,



Milena B. Lowd
Director of Laboratory Services

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AIC Associates Inc.

104 E. 26th St., 10th Floor, New York, NY 10010-2917

• (212) 353-8380 Fax (212) 353-8308

BULK ASBESTOS ANALYSIS RESULTSClient : PII
125 Cedar St. PIIBatch # : 3309A
Date Collected : 11/19/01

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SAMPLE INFORMATION		Asbestos Result	Fibrous Material	Non-Fibrous Material	NOB Result
Field # : 01	Date Analyzed: 11/19/01	3% CHRYSOTILE	48% Cellulose 18% Fiberglass	31% Mineral Filler	
Color : Grey					
Location : 125 Cedar St. 7S					
Type of Mat: Dust					
Homogeneity : Y	By : YP				
Method : ELAP+EPA PLM					
Comment:					
Field # : 02	Date Analyzed: 11/19/01	2% CHRYSOTILE	47% Cellulose 20% Fiberglass	31% Mineral Filler	
Color : Grey					
Location : 125 Cedar St. 7S					
Type of Mat: Dust					
Homogeneity : Y	By : YP				
Method : ELAP+EPA PLM					
Comment:					
Field # : 03	Date Analyzed: 11/19/01	2% CHRYSOTILE	47% Cellulose 20% Fiberglass	31% Mineral Filler	
Color : Grey					
Location : 125 Cedar St. 7S					
Type of Mat: Dust					
Homogeneity : Y	By : YP				
Method : ELAP+EPA PLM					
Comment:					

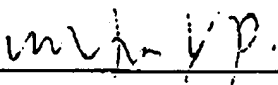
Legend: TRACE = LESS THAN LIMIT OF QUANTITATION (<0.25%)

Note 1: For point counts the limit of quantitation of 0.25% is based on one asbestos point counted over 400 non-empty points.

Note 2: > 1% asbestos by weight is considered an ACM (Asbestos Containing Material).

Analyst:

Reviewed and Signed for the Company by:


Director of Laboratory Services

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ATC ASSOCIATES INC.

ENVIRONMENTAL AND CHEMICAL AND MATERIALS PROFESSIONALS

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

Airtel to NY 12 Airtel Dep
 34 Stuyvesant Street
 NYC 10003
CHAIN OF CUSTODY
 Tel. 445 5730

Page 1 of 1
Serial No: 3309

PROJECT INFORMATION

1. Client:	2. Project Name:	3. Project #:	4. Project Manager:
P11	2a. Project Address: 125 Cedar St. P11		4a. Investigator
5. Date:	6. Sliding Name:	8. Turnaround Time	9. Comments (Field)
11/19/01	7. Sampling Area: 3 Samples	☐ STAT ☐ 24 HRS ☐ 72 HRS ☒ OTHER ☐ 3 HRS ☐ 48 HRS ☐ NORMAL	

BULK SAMPLE LOCATION

[illegible]

CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time	23. Method of Submit
I. <u>CLINT</u>	<u>11/19/01</u>	<u>1:30 pm</u>	<u>MR. [illegible]</u>	<u>11/19/01</u>	<u>1:30 pm</u>	<u>FIELD</u>
II.						<u>WALK IN</u>
III.						<u>US MAIL</u>
						<u>FED-X</u>
						<u>OTHER</u>

LAB INFORMATION

24. Name and Signature	25. Date	26. Time	27. Comments - Lab:
24a. Analyzed By: Yelena Peyzackov	11/19/04	PM	Aspern, Fibro, Glans.
24b. Analyzed By:			Silver.
24c. CC By:			3 pLm < 6

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ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor, New York, NY 10010. Phone (212) 353-8780, FAX (212) 353-3599 or 8308

NYLAP 100101
SLAP 100101
Microscope ONLY 0112

PI

Client / Project

125 Cedar St

Project No.

Analysis Date 11/19/01 Analyst C. Reefe

Batch No.

3309

Field No. 01	Stereoscopic Exam Color <u>Grey</u> Transparency <u>Y</u> Well layers <u>Y</u> Color of Layer <u>---</u> Color of Layer <u>---</u> Color of Layer <u>---</u> Comments:	PLM Optical Properties Morphology <u>LD</u> RI <u>1.529</u> DS Color <u>YR</u> Birefringence <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>3</u> Amosite <u>---</u> Other <u>---</u>	Other Fibrous % Cellulose <u>48</u> Fiberglass <u>18</u> Other <u>---</u>	Non Fibrous % Mineral Fiber <u>31</u> Organic Binders <u>---</u> Verminicide <u>---</u> Other <u>---</u>	Gravimetric (HOB) Results % Organic <u>---</u> Residue <u>---</u> Carbonate <u>---</u> Other <u>---</u> Asbestos <u>---</u>
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Field No. 02	Stereoscopic Exam Color <u>Grey</u> Transparency <u>Y</u> Well layers <u>Y</u> Color of Layer <u>---</u> Color of Layer <u>---</u> Color of Layer <u>---</u> Comments:	PLM Optical Properties Morphology <u>LD</u> RI <u>1.529</u> DS Color <u>YR</u> Birefringence <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>32</u> Amosite <u>---</u> Other <u>---</u>	Other Fibrous % Cellulose <u>47</u> Fiberglass <u>20</u> Other <u>---</u>	Non Fibrous % Mineral Fiber <u>31</u> Organic Binders <u>---</u> Verminicide <u>---</u> Other <u>---</u>	Gravimetric (HOB) Results % Organic <u>---</u> Residue <u>---</u> Carbonate <u>---</u> Other <u>---</u> Asbestos <u>---</u>
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Field No. 03	Stereoscopic Exam Color <u>Grey</u> Transparency <u>Y</u> Well layers <u>Y</u> Color of Layer <u>---</u> Color of Layer <u>---</u> Color of Layer <u>---</u> Comments:	PLM Optical Properties Morphology <u>LD</u> RI <u>1.527</u> DS Color <u>YR</u> Birefringence <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>32</u> Amosite <u>---</u> Other <u>---</u>	Other Fibrous % Cellulose <u>47</u> Fiberglass <u>20</u> Other <u>---</u>	Non Fibrous % Mineral Fiber <u>31</u> Organic Binders <u>---</u> Verminicide <u>---</u> Other <u>---</u>	Gravimetric (HOB) Results % Organic <u>---</u> Residue <u>---</u> Carbonate <u>---</u> Other <u>---</u> Asbestos <u>---</u>
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Field No.	Stereoscopic Exam Color <u>---</u> Transparency <u>---</u> Well layers <u>---</u> Color of Layer <u>---</u> Color of Layer <u>---</u> Color of Layer <u>---</u> Comments:	PLM Optical Properties Morphology <u>---</u> RI <u>---</u> DS Color <u>---</u> Birefringence <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u>	Other Fibrous % Cellulose <u>---</u> Fiberglass <u>---</u> Other <u>---</u>	Non Fibrous % Mineral Fiber <u>---</u> Organic Binders <u>---</u> Verminicide <u>---</u> Other <u>---</u>	Gravimetric (HOB) Results % Organic <u>---</u> Residue <u>---</u> Carbonate <u>---</u> Other <u>---</u> Asbestos <u>---</u>
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BATCH NO

YFM ASSOCIATES INC

ENVIRONMENTAL, TECHNICAL, AND MATERIALS PROFESSIONALS

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: PII	2. Project Name: /	3. Project #: 121- 4485432/FAR 4454320	4. Project Manager:
5. Date: 11/19/01	2a. Project Address: 125 Cedar St. / PII	4a. Investigator	
6. Building Name:	8. Turnaround Time	9. Comments (Field)	
7. Sampling Areas: 3 Samples	☐ STAT ☐ 24 HRS ☐ 72 HRS ☐ 6 HRS ☐ 48 HRS ☒ NORMAL	OTHER	

BULK SAMPLE LOCATION

[illegible]

CHAIN OF CUSTODY

17 Relinquished By	18 Date	19 Time	20 Received By	21 Date	22 Time
I <i>Chant</i>	<i>11/19/01</i>	<i>1:32pm</i>	<i>M. L. R. M.</i>	<i>11/19/01</i>	<i>1:32pm</i>
II					
III					

LAB INFORMATION

23 Method of Submission
FIELD
WALK-IN
US MAIL
FED-X
OTHER

LAB INFORMATION

24. Name and Signature	25. Date	26. Time	27. Comments (Lab)
24a. Analyzed By:			ASBENT, Fiber Glass + Silica
24b. Analyzed By:			
24c. QC By:			

PAID \$75⁰⁰/xy 11/19/01 Taxes... 500. #

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BATCH NO

ASSOCIATES INC.

ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: PII	2. Project Name: _____	3. Project #: _____	4. Project Manager: _____
5. Date: 11/19/01	2a. Project Address: 125 Cedar St. / PII	4a. Investigator: _____	
6. Building Name: _____	8. Turnaround Time: ☐ STAT ☐ 24 HRS ☐ 72 HRS ☒ OTHER ☐ 6 HRS ☐ 48 HRS ☐ NORMAL		9. Comments (Field): _____
7. Sampling Areas: (3) Samples			

BULK SAMPLE LOCATION: _____

BULK SAMPLE LOCATION

[illegible]

CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time
I. <i>P. Hunt</i>	<i>11/19/01</i>	<i>1:30 pm</i>	<i>M. L. ...</i>	<i>11/19/01</i>	<i>1:30 pm</i>
II.					
III.					

LAB INFORMATION

23. Method of Submission
FIELD
WALK-IN
US MAIL
FED-EX
OTHER

LAB INFORMATION

24. Name and Signature	25. Date	26. Time	27. Comments (Lab) ASBESTOS, Fiber Glass + Silica
24a. Analyzed By:			
24b. Analyzed By:			
24c. QC By:			

TOTAL P 13