

**McCall and Spero  
Environmental, Inc.**

Specialists in Microanalysis

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Date: November 4, 2008

Attention: Brenda Pathammavong  
Pace Analytical

Subject: Analysis of bulk samples for asbestos mineral fibers by Polarized Light  
Microscopy (PLM) with Dispersion Staining (EPA/600/R-93/116)

RE: MSE-P0288PA.1  
Ecusta Paper Mill Demo 131478  
PA#9230596 / CHS04761

Dear Ms. Pathammavong:

McCall & Spero Environmental, Inc. has completed the analyses of the bulk samples we received from your offices on October 28, 2008. These samples represent the bulk samples from the Ecusta Paper Mill Demo 131478.

The PLM bulk analysis was performed according to the "Method of the Determination of Asbestos in Bulk Building Materials", R. L. Perkins and B. W. Harvey (EPA/600/R-93/116).

The results for the three (3) samples are summarized in the following report. Please note that for samples consisting of two or more distinct components, each component is analyzed and reported individually (EPA 40 CFR Part 61 [FRL-4821-71]).

Thank you for consulting McCall & Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

J. Scott Board, B.S.  
Laboratory Director

**SUMMARY OF PLM BULK ANALYSIS RESULTS**

Page 1

Project Name: Ecusta Paper Mill Demo 131478 PA#9230596 / CHS04761  
 McCall & Spero Environmental Project No. MSE-P0288PA.1

| MSE #<br>P0288PA.1- | SAMPLE #<br>DESCRIPTION   | ASBESTOS<br>TYPE & % | OTHER FIBROUS<br>MATERIAL & % | % NON-FIBROUS<br>MATERIAL | COLOR |
|---------------------|---------------------------|----------------------|-------------------------------|---------------------------|-------|
| 001                 | ASB-97-1<br>Miscellaneous | ND**                 | Cellulose / 5%                | 95%                       | Black |
| 002                 | ASB-97-2<br>Miscellaneous | ND**                 | Glass / 40%                   | 60%                       | Gray  |
| 003                 | ASB-95-3<br>Miscellaneous | ND**                 | Cellulose / 5%                | 95%                       | Black |

## NOTES:

ND = None Detected

CH = Chrysotile

A = Amosite

AC = Actinolite

CR = Crocidolite

AN = Anthophyllite

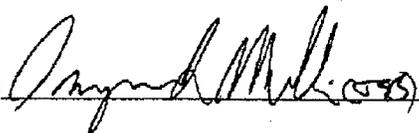
TR = Tremolite

For samples consisting of separate components, each component is analyzed and reported separately.

Results apply only to items tested. Quantification is accurate to within  $\pm 10\%$ . Results from this report must not be reproduced, except in full, with the approval of McCall & Spero Environmental, Inc. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

\*\* EPA recommends that bulk materials found negative for asbestos or less than one percent asbestos by polarized light microscopy that fall into one of five dominantly nonfriable categories be reanalyzed by an additional method, such as transmission electron microscopy. (EPA Notice of Advisory, FR Vol. 59, No. 146 & Test Method EPA 600/ R-93/ 116).

Analyst: Dwayne Mullins



McCall & Spero Environmental, Inc.

10-28-'08 09:16 FROM-Pace Analytical

7048759091

T-026 P002/002 F-544

# Chain of Custody

Workorder: 9230596

Workorder Name: Ecusta Paper Mill Demo 131478

Results Requested 10/4/2008

Report / Invoice To

Subcontract ID

Requested Analysis

Brenda Pathamratorng  
Pace Analytical Charlotte  
9800 Kincey Ave, Suite 100  
Huntersville, NC 28078  
Phone (704)875-9092

McCall & Spero P.O. CONSUL701

| Item              | Sample ID            | Collect Date/Time | Lab ID      | Matrix    | Preserved Containers |  | LAB USE ONLY |
|-------------------|----------------------|-------------------|-------------|-----------|----------------------|--|--------------|
|                   |                      |                   |             |           | Unpreserved          |  |              |
| 1                 | ASB-97-1             | 10/22/2008 13:15  | 9230596001  | Solid     | 1                    |  |              |
| 2                 | ASB-97-2             | 10/22/2008 13:20  | 9230596002  | Solid     | 1                    |  |              |
| 3                 | ASB-95-3             | 10/22/2008 13:25  | 9230596003  | Solid     | 1                    |  |              |
| 4                 |                      |                   |             |           |                      |  |              |
| 5                 |                      |                   |             |           |                      |  |              |
| PLM Bulk Asbestos |                      |                   |             |           |                      |  |              |
| X X X             |                      |                   |             |           |                      |  |              |
| Continues         |                      |                   |             |           |                      |  |              |
| Transfers         | Released By          | Date/Time         | Received By | Date/Time |                      |  |              |
| 1                 | Brenda Pathamratorng | 10/28/08          | DM          | 10/28/08  |                      |  |              |
| 2                 |                      |                   |             |           |                      |  |              |
| 3                 |                      |                   |             |           |                      |  |              |
| 4                 |                      |                   |             |           |                      |  |              |
| 5                 |                      |                   |             |           |                      |  |              |

