

September 30, 2008

Ms. Amanda Welch
Shaw E&I
One Ecusta Road
Brevard, NC 28712

RE: Project: ECUSTA MILL PAPER DEMO 131478
Pace Project No.: 9228241

Dear Ms. Welch:

Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brenda Pathammavong

brenda.pathammavong@pacelabs.com
Project Manager

Enclosures

cc: Mr. Ronald Kenyon, Shaw E&I

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ECUSTA MILL PAPER DEMO 131478
Pace Project No.: 9228241

Charlotte Certification IDs

Connecticut Certification Number: PH-0104
Pennsylvania Certification Number: 68-00784
West Virginia Certification Number: 357
Virginia Certification Number: 00213
Tennessee Certification Number: 04010
South Carolina Drinking Water Cert. Number: 990060003
South Carolina Certification Number: 990060001

North Carolina Field Services Certification Number: 5342
North Carolina Wastewater Certification Number: 12
North Carolina Drinking Water Certification Number: 37706
Louisiana/LELAP Certification Number: 04034
Kentucky UST Certification Number: 84
New Jersey Certification Number: NC012
Florida/NELAP Certification Number: E87627

Asheville Certification IDs

Connecticut Certification Number: PH-0106
Massachusetts Certification Number: M-NC030
West Virginia Certification Number: 356
Virginia Certification Number: 00072
Tennessee Certification Number: 2980
South Carolina Bioassay Certification Number: 99030002
South Carolina Certification Number: 99030001

Pennsylvania Certification Number: 68-03578
North Carolina Bioassay Certification Number: 9
North Carolina Wastewater Certification Number: 40
North Carolina Drinking Water Certification Number: 37712
New Jersey Certification Number: NC011
Louisiana/LELAP Certification Number: 03095
Florida/NELAP Certification Number: E87648

Eden Certification IDs

Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

North Carolina Drinking Water Certification Number: 37738

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ECUSTA MILL PAPER DEMO 131478

Pace Project No.: 9228241

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9228241001	ASB-35-1	Air Cassette	09/15/08 18:04	09/19/08 08:15

REPORT OF LABORATORY ANALYSIS

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**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date: September 29, 2008
Attention: Brenda Pathammavong
Pace Analytical
Subject: Analysis of air samples for fibers by
Phase Contrast Microscopy (PCM)
RE: MSE-PC9238PA
Ecusta Mill Paper Demo Project
PA #9228241

Dear Ms. Pathammavong:

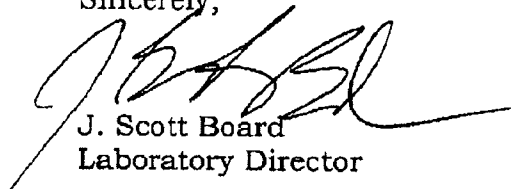
McCall and Spero Environmental, Inc. has completed the analysis of the air sample we received from your office on September 23, 2008. This sample represents the PCM sample for the Ecusta Mill Paper Demo Project PA #9228241.

According to your instructions, this sample was analyzed using the NIOSH 7400 Phase Contrast Microscopy fiber counting method. Please note that this method does not differentiate between asbestos and non-asbestos fibers or identify fibers below the resolution limits of the light microscope. Briefly, fibers greater than or equal to 5.0 μ m in length and 0.25 μ m in diameter having an aspect ratio greater or equal to 3:1 were counted. Results are expressed as: 1) fibers 5.0 μ m in length and 0.25 μ m in diameter/cc and 2) fibers 5.0 μ m in length and 0.25 μ m in diameter/mm².

The results for the one (1) sample taken are summarized in Table I.

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

Sincerely,



J. Scott Board
Laboratory Director

SUMMARY OF PCM RESULTS / NIOSH 7400

TABLE I

"PCM Light Microscopy" Analysis

Project Name: Ecusta Mill Paper Demo Project PA #9228241

McCall and Spero Project No: MSE-PC9238PA

MSE Lab ID	Client ID	# of Fibers	# of Fields	Sample Vol. (l)	Concentration (F/mm²)	Concentration (F/cc)
001	ASB-35-1	14	100	3570	17.5	<0.01

Filter Type: MCE
Filter diameter: 25mm

Pore Size: 0.80µm
Effective filter Area: 385mm²

Notes:

NFD = No Fibers Detected

NA = Not Applicable

BDL = Below Detectable Limit

F/mm² = fibers greater than 5.0µm length & 0.25µm diameter per square millimeter.

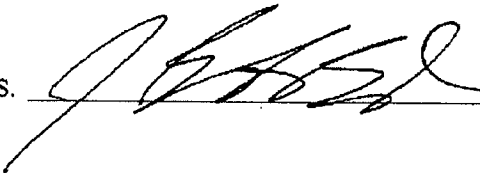
F/cc = fibers greater than 5.0µm length & 0.25µm diameter per square millimeter.

Results apply only to the size range of items tested.

The analysis was performed according to the NIOSH 7400 Method.

This laboratory is in compliance with the specified method.

Analyst: J. Scott Board, B.S.



Date:

9/29/08

McCall and Spero Environmental, Inc.

Client Name:	Davidson River Village	Proj/Task No.:	13147B
Site Name:	Euisto Paper Mill Demo	Date Sampled:	9/15/08
Bldg Name:	Bldg 35	Technician Name:	Amanda Welch
Floor:	Outside Pipe Run		

Proj/Task No.: 13147B
Date Sampled: 9/15/08
Technician Name: Amanda Welch

AIR SAMPLES COLLECTED FOR ANALYSIS FOR AIRBORNE FIBERS BY PCM ANALYSIS

[illegible]



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: **Shaw E+I**
Address: **One Eureka Road**
Brevard, NC 28712
Email To: **amanda.welch@shawgrp.com**
Phone: **417-788-0413**
Project Name: **Eureka Paper Mill Demo**
Requested Due Date/TIME: **Standard**

Section B

Required Project Information:

Report To: **amanda.welch@shawgrp.com**
Copy To: **Ronald Kenyon@shawgrp.com**
Purchase Order No.: **416782**
Project Number: **131478**

Section C

Invoice Information:

Attention: **Denise Simpson**
Company Name: **Shaw E+I**
Address: **11560 Crest Oaks Way Suite 500**
Apex, NC 27502
Reference: **2840-2**
Site Location: **NC**
State: **NC**

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1211970

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Section D

Required Client Information

Matrix Codes
Drinking Water
Waste Water
WWT
Product
Soil/Solid
Oil
Wipe
Air
Tissue
Other

SAMPLE ID
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

MATRIX CODE (see valid codes to left)
SAMPLE TYPE (G=GRAB C=COMP)

DATE	TIME	DATE	TIME
9/5/08	14:34	9/5/08	18:04

SAMPLE TEMP AT COLLECTION
OF CONTAINERS
Unpreserved
H₂SO₄
HNO₃
HCl
NaOH
Na₂S₂O₃
Methanol
Other

Analysis Test
PCM

Requested Analysis Filtered (Y/N)

Residual Chlorine (Y/N)

9228241
9228241001
Pace Project No./ Lab ID.

ITEM #	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
1	ASB-35-1							
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Aminda Welch**

SIGNATURE of SAMPLER: **Aminda Welch**

DATE Signed (MM/DD/YY): **9/5/08**

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Sample Condition Upon Receipt

Client Name: Shaw E & I Project # 9228241

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used: IR Gun#2 / 72490786

Type of Ice: Wet Blue ☒ None

☒ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract NA C

Corrected Cooler Temp.: NA C

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: DM 9/19/08

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>AIR</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BAP

Date: 9/19/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)