

# **Services List**

## **Econotech Services Ltd.**

**[www.econotech.com](http://www.econotech.com)**

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Email: [info@econotech.com](mailto:info@econotech.com)  
Tel: (604) 526-4221 or  
(800) 463-5700  
Fax: (604) 526-1898

Address:  
852 Derwent Way  
Delta, BC V3M 5R1  
Canada

This document lists the standard tests and services available at Econotech. For additional information, custom services and pricing please contact us.

**SAMPLE SHIPMENT** - Please provide a purchase order with each shipment. Samples should be shipped prepaid.

**RUSH ANALYSES** - Econotech can accommodate your requirements for rush analysis. Rush service may be subject to a surcharge.

**US CUSTOMERS** - Samples can easily be shipped to our facility. Please consult our website for detailed shipping instructions. Shipping instructions can be found in the "Contact Us" section of our website.

**SAMPLE STORAGE** - Samples will be retained at Econotech for a period of three months from time of sample receipt (where appropriate). Samples will be discarded unless prior arrangements have been made.

For more information regarding specific services at Econotech, please call us at 604-526-4221 or 1-800-463-5700

<b>Service</b>	<b>Contact</b>	<b>Local</b>	<b>Email</b>
General Information			info@econotech.com
Quality Assurance	Donna Johannes	237	donnaj@econotech.com
Chemical and Liquor Analysis	Thomas Yuen	238	tom@econotech.com
Pulp and Paper Testing	Sandra Fodor	253	sandra@econotech.com
Pulp and Paper Testing	Yolanda Cahoon	234	yolanda@econotech.com
Contaminant ID	Eric Chao	265	eric@econotech.com
Microscopy, Species ID and Asbestos	Jodi Murphy	256	jodi@econotech.com
Microscopy, Species ID and Asbestos	Heather McLeod	255	heather@econotech.com
Environmental Analysis	Jodi Murphy	256	jodi@econotech.com
Environmental Analysis	Lien Vu	226	gc@econotech.com
Environmental Analysis	Hur Begum	246	env@econotech.com
Organic Halide Analysis (AOX)	Jodi Murphy	256	jodi@econotech.com
Pulping and Bleaching Pilot Plant Studies	Keith Becker	233	keith@econotech.com
Dissolving Pulp End-Use Testing	Ralph Abley	232	ralph@econotech.com
Returned Lime Analyzer	Ralph Abley	232	ralph@econotech.com

## CONTAMINANT ID

A wide variety of process and product contaminants can be identified and/or compared with known samples. In addition to the FTIR (Fourier Transform Infrared Spectroscopy) methods listed below, many analytical and microscopy tests are available for sample identification.

For any questions or quotes, please contact Eric Chao at 604-526-4221 or 1-800-463-5700.

### **Test**

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Most contaminant identification projects require some of the following support services:

- Sample preliminary evaluation
- Analytical preliminary evaluation
- Analytical scheme design
- Data evaluation, interpretation
- Consultation

### **FOURIER TRANSFORM INFRARED SPECTROSCOPY (FTIR)**

#### **FTIR**

Includes the following techniques:

- KBr disc
- Pyrolysis
- NaCl salt plate

Solids, powder, liquid, plastic, rubber, extractives all can be identified using one or more of the above FTIR techniques. Samples such as pulp & paper process deposits, contaminants, plastics, unknown materials, coating material are analyzed frequently.

#### **FTIR - Microscope**

- Microtransmission
- Microreflectance

Micro amounts of unknown pulp & paper contaminants, process deposits, coatings, tape pull, fly ash, etc. can be identified using these techniques.

### **THERMOGRAVIMETRIC ANALYSIS**

#### **TG**

- in air
- in nitrogen

Weight loss profile in temperature range 40C - 950C, of the sample can be obtained in air or in nitrogen atmosphere at specified heating rates. A thermogram reveals information about moisture, ash and other thermal parameters of the sample. Pulp & paper, process deposits, contaminants, plastics, unknown materials and coating material are analyzed frequently. A minimum amount of sample is required for the test (10mg).

Ash obtained at specified temperature in a TG scan can be isolated and identified using FTIR techniques.