

ANALYTICAL SERVICES AND PROJECTS

Kevin Taylor, B.Sc., M.Sc. (Chemistry), PChem

Taylor Industrial Research, Inc.

Tel: 250-418-5705 Fax: 250-361-0099

Email: kevin.taylor@industrialresearch.ca Website: www.industrialresearch.ca

Specialized Analytical Services:

During previous projects, specialized analytical methods were developed to solve specific process problems. The following analyses include all laboratory testing and a complete interpretation of data. Please call for pricing.

- Evaluation and reduction of lime kiln ring formation. Includes XRD analysis, SEM/EDX, elemental analysis and data interpretation.
- Evaluation of used tubular backpulse pressure filters. Includes filter preparation, SEM/EDS of filter surface, filter pores and filter body. XRD analysis of filter solids if sufficient material is available. Complete data interpretation.
- Sampling, analysis and evaluation of an acid wash treatment of a tubular backpulse pressure unit. This can result in significant improvements in filter operation from changes in operating and acid wash procedures.
- Non-process element benchmarking of lime mud – comparison with data from other Kraft mills.
- Evaluation and reduction of scale formation in lime kiln wet scrubbers, smelt dissolving tanks and black liquor evaporators.
- Low solids content of Kraft mill lime mud – effect of non-process elements.
- Quality control of purchased lime and limestone. Troubleshooting problems with purchased lime quality.
- Qualitative evaluation of pulp or paper dirt specks. Results include recommendations for more detailed analysis, if required.
- Evaluation of commercial talc samples used for control of pitch in pulp production.
- Visible light diffuse reflectance measurements of lime mud.

R&D Project Fees:

R&D fees vary with the project and depend on the scope. Please ask for a quotation. These projects are designed to meet the requirements of the Scientific Research and Experimental Development (SR&ED) Tax Incentive Program (in Canada). With the SR&ED tax credit, additional costs associated with the project, such as sample analysis expenses and engineers time may also be included. This will reduce the after-tax cost of the project to the client.

Retainer Arrangements:

For the client that requires a few hours per month on a regular basis, I offer consulting on a retainer basis.

The advantages of a retainer agreement include reduced hourly rates, reduced special project costs and priority consideration. The client pays a flat monthly rate that includes a specified minimum number of hours per month, with excess hours billed at the discounted hourly rate.