

## RESPONSIBLE ENVIRONMENTAL MANAGEMENT

### Water Quality



*Secondary effluent treatment system - Trois-Rivières, Québec*



*Secondary effluent treatment system  
Kruger Wayagamack, Trois-Rivières, Québec*



*Secondary effluent treatment system  
Brompton, Québec*



*Secondary effluent treatment system  
Corner Brook, Newfoundland*

### Newsprint and Coated Paper Mills

- Chlorine-free processes
- Dioxin/furan-free emissions

All of our newsprint, coated, supercalendered and specialty paper mills are equipped with secondary water treatment systems, which consist in removing the dissolved organic matter that creates toxicity and biochemical oxygen demand (BOD).

Before commissioning its effluent treatment systems, Kruger developed plans to segregate or reduce the amount of water used in the processes. We allowed for some leeway when designing our systems to obtain better-quality effluents than those prescribed by regulation. Consequently, minimum quantities of water are used, system performance is enhanced and the quality of the effluent treated is such that it could be reused in the manufacturing process.

### ***Reduction in Water Consumption***

Since 1981, water consumption in mill processes has been reduced by 47%. This reduction is even more significant given that during the same period, Kruger mills production increased by 30%. A rationalized water consumption program was further implemented in 1995 to reduce effluent volumes. Part of the program is aimed at separating major sources of the mill's uncontaminated cooling water.

### ***Saint-Laurent Vision 2000 (SLV 2000)***

The Kruger mill in Trois-Rivières is located on the St. Lawrence River. The Brompton mill is located on the St. François River, a tributary of the St. Lawrence. In compliance with SLV 2000 objectives, the installation of our secondary treatment systems has enabled us to reduce the Chimiotox index of both mills by 99% (all toxicity factors included).



*Brompton Mill, Québec*