

CANADIAN

March/April 2007

WATER

TREATMENT

Canada's Water Quality Improvement Magazine

FUNDING WATER PROJECTS

MONEY FOR
MUNICIPAL
INFRASTRUCTURE

COTTAGE
COUNTRY
WATER

TASTING IN
BERKELEY
SPRINGS

TIP OF THE
ICEBERG:
PAUL MOIST
pg. 20

watertreatment.ca

COTTAGE COUNTRY BY THE NUMBERS

- Number of Canadian households that owned a vacation home in 1999 **823,000**
- As a percentage of all households **7**
- Percentage of vacation homes owned by urban dwellers **90**
- Average age of a vacation homeowner **52**
- Percentage of vacation homeowners who have owned their cottages for more than 10 years **57**
- For less than two years **7**
- Percentage of vacation homeowners who value their property at more than \$500,000 **3**
- At less than \$50,000 **33**
- Percentage of vacation homeowners who plan to sell their properties within the next three years ... **13**
- Percentage of Canadians who plan to buy a vacation home in the next few years **6**
- Percentage of prospective vacation homeowners who would drive a maximum of two hours to a vacation home **59**
- Percentage of vacation homeowners who are in fact within a two-hour drive of their homes **66**

Courtesy of the Canadian Manufactured Housing Institute. Sources: realtytimes.com, royallepage.ca and the Survey

UF hollow fibre membrane technology for treating water provides one of the simplest and most effective ways to both clarify and disinfect water. Hollow fibre membranes, which resemble strands of spaghetti, utilize physical exclusion to filter the water. The polymeric walls of the membrane strands have billions of pores that allow water to flow through with minimal pressure drop but act as a physical barrier to turbidity and pathogens.

Recently, a family building a new cottage on Red Stone Lake in Haliburton, Ont. was faced with issues regarding the quality of available potable water. They initially investigated a new well, but concluded the cost was excessive, especially in light of the fact that there would be no guarantee of the water quality. The lake was available as a potential source, but treatment would be required. The main features they were looking for were low maintenance and worry-free production of high-quality water. The solution was found in a single unit, stainless-steel filter and surface water prefilter. The installation was easy, and the unit has been consistently meeting their water quality expectations.

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UF membranes that have been proven in municipal treatment plants have now been incorporated into whole home point-of-entry systems that are being used in cottages and small communities throughout Canada. In these compact UF systems, granular activated carbon (GAC) is used to pre-filter water and remove unwanted taste and odours. Water then passes on to thousands of strands of hollow fibre membranes, through pores that are 0.02 microns (nominal) from the outside-in to physically remove turbidity, bacteria, viruses and cysts from the water. Using only the inlet water pressure, the systems can filter up to 42 litres per minute without electricity. For added security, the effectiveness of some UF membrane systems can be verified on-site by using a hand-held portable membrane integrity tester.

Ideally, providing microbiological water treatment in today's cottage country means being able to supply consistent, reliable and verifiable disinfection for the entire structure – not just at a single point-of-use. UF membrane technology has been proven effective in municipal plants that serve millions, and can provide high flows with minimum pressure drops on water of varying qualities in cottages as well. **W**

Details at forefronthomespring.ca and homespring.com.



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