



U.S. Fish and Wildlife Service/photo by Tom Smylia.

Just the Facts

- Location:** Buckskin Lake, Ontario
- Problem:** *Giardia* in the lake water from beavers. An additional problem of bio-film clogging filters once system was installed.
- Solution:** Hallett 13 Ultraviolet System with Crossfire Technology and filters.
- Results:** Purified water from lake, improved taste and eliminated bio-film.

Taking Care of Beaver Fever

Cottage Retreat Provides Pure, Safe Water for Everyone

George and Connie Scott could be described as pretty typical retirees. They spend their winters at their home in Ridgeway, Ontario, busy with friends and family, traveling a little and looking forward to the day when the snow is off the ground and they can open their beloved cottage for another season. And, like most cottagers, for the past 24 years they have taken water directly from the lake to use in their water system while having to lug in gallons of drinking water from local municipalities.

"We've always managed our water needs this way and never really worried too much," explains Connie. "It was when we were on our way to the Cottage Show with friends who had recently put in an under-the-counter filtration system that we realized we're putting our family—especially our seven grandchildren, at risk for waterborne illness. I knew we had to do something."

The Scotts' cottage is located on Buckskin Lake between Bancroft and Halliburton, Ontario, an area prized for its small, clear lakes and rugged

terrain. The property boasts a large beachfront that is great for kids and adults alike for swimming and boating. Unfortunately, according to George, the beachfront also is enjoyed by a rather large group of beavers that have a penchant for using it as a water closet. As their droppings are washed away into the lake, so too are the *Giardia* bugs they carry with them. Ingestion of *Giardia* causes what is affectionately known as "Beaver Fever" or *Giardiasis*, a rather painful gastro-intestinal illness.

Being very concerned about contracting Beaver Fever, Connie was determined to find the most powerful water filtration system available for their cottage. That's when she met Phil from UV Pure Technologies.

"I was extremely impressed with the way Phil explained the application and effectiveness of ultraviolet radiation for water purification. When he showed me the differences between conventional UV systems and UV Pure's products, I was sold," notes Connie. "There really was no other choice."

They decided to select the Hallett System with Crossfire Technology. "Connie really put her foot down," chuckles George. "She was adamant about the increased effectiveness of the UV radiation due to the two UV lamps, the "window washer" effect of the quartz cleaning mechanism and the built-in sensors, ensuring that when the system is on, it's working. We bought the Hallett on the spot."

A Hallett 13 System for residential use was installed at the Scott cottage in Ma, 2002, making it the first UV Pure system to be used in a seasonal environment. The system was installed with a 5 micron filter at the front of the system to eliminate sediment in the water. Right behind that a 10 micron charcoal filter was put in place to take out chemicals and provide better taste to the water after it went through the UV filtration process.

Unknown to the Scotts, Buckskin Lake has a very small type of bio-film bacteria that, when sucked through the water system, clogged up the charcoal filter, resulting in decreased water pressure and the Hallett turning itself off. Because

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the Hallett system can be configured and reconfigured to match the requirements of any particular water source, the bio-film problem was resolved by placing the charcoal filter behind the UV filter. It turned out that the Crossfire Technology not only provided 100 percent effectiveness in purifying the water, it also broke up the bio-film and prevented it from clogging the filter.

According to George, "We've never had a problem with the system (since the change was made); it works beautifully. In fact we've enjoyed the experience of working directly with

Ron Hallett, the founder and inventor of the system, as a kind of test environment. We kept logs and shared our information directly with him so that these external problems could be identified and eliminated for future cottagers installing the systems."

George and Connie are delighted with their Hallett 13 from UV Pure. They

have had the water tested many times over the course of the summer and found it to be "just fine." They both

highly recommend the system for cottages and homes where water safety is a concern. **WQP**

For more information on this subject, write in 1011 on the reader service card.



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HIGHLIGHTS

Electronic Water Conditioners



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Nelsen Corp., Norton, OH Write in 1119

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Kavey Water Equipment Corp., Venice, FL Write in 1111

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January 2004

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