



Town of Craik
SCOR625 Biofiltration Drinking Water Treatment System

Out-of-the-box thinking key to Mainstream success Innovative ideas keep clean water flowing

Providing clean drinking water is a concern for rural communities across the country and around the world, and one Saskatchewan company is offering small communities and large farms a proven solution, with refreshing results.

Mainstream Water Solutions Inc. has been helping people purify water once thought to be undrinkable, taking water from dugouts and sloughs and making it safe to drink.

Using their ozone-assisted bio-filtration drinking water treatment systems, families, farms and small businesses across Western Canada have been able to enjoy fresh and filtered water. Ozone (O3) occurs naturally in the atmosphere but it can be manufactured with an ozone generator. It is a powerful disinfectant that "breaks up" contaminants into smaller pieces that are more easily digested by the naturally occurring microorganisms found in Mainstream's BioSand and BioCarbon filters.

The system is virtually chemical-free; regulations for communities require chlorine to be added as a final disinfection step as the water flows through the distribution system to the community but the Mainstream method can reduce chlorine-usage by up to 75 per cent.

"Good quality drinking water is fundamental for the growth, expansion, and in fact, longevity of a rural community", said Doug Price, President and CEO of Mainstream. "We have a unique product which is very adaptable and people love the quality of the treated water."

Mainstream's innovative system treats or removes a number of undesirable elements, such as bacteria, iron, manganese, colour, staining, odours, turbidity, dissolved organics, tannins, arsenic, and much more. The filtration process is well-suited to small communities and rural residents. It meets all municipal standards, and has relatively low operating and maintenance requirements.

"We want to provide affordable, simple, and effective drinking water treatment with minimal chemical involvement," said Price. "That's been our goal and mandate since the start."

The start for this Regina-based company came in the mid-1980s, when company founder David Keet was looking for an effective way to recycle the water on his commercial fish farm. Keet worked in collaboration with a number of educational institutions and research groups to successfully develop a chemical-free water treatment system. He approached local entities such as the Saskatchewan Research Council, Prairie Farm Rehabilitation Administration, Saskatchewan Water Corporation, and the University of Saskatchewan. He also worked with the National Research Council, Agriculture and Agri-Food Canada, and he even reached out to Napier University in Scotland.

Through his extensive research, Keet found that he was facing a lot of the same challenges plaguing other rural residents and small communities. Many towns have to deal with the dilemma of whether to go hygienic, by issuing a boil water advisory or tackle water issues through treatment and filtration.

"The cost of chemicals can be extremely high and in some cases funds can be limited," said Price. "Also environmental issues, such as the amount of wastewater or the use of harmful chemicals, can come into play, thereby putting stress on the aquifer. Some communities can find it challenging to attract water professionals to operate complicated systems and outdated systems usually are not able to perform to the updated standards", added Price.

Thankfully for thirsty residents, in 1989, Keet began selling his system to

other rural residents for drinking water purposes and in the last five years Mainstream has expanded business to small municipalities.

The first step of that expansion came in 2005, when Mainstream began a 15-month pilot project in Osage, SK, where some of the most difficult-to-treat dugout surface water was successfully treated by the system. Following the Osage pilot project, Mainstream was able to begin marketing municipal systems to communities across Western Canada.

"Ninety-five per cent of our sales come from small municipal customers in Western Canada," said Price. "We started in Saskatchewan but since expanded to Manitoba, Alberta, and British Columbia. We also sell market to rural residents, agricultural, and commercial businesses." Mainstream has twenty municipal plants operating across Western Canada, with several more projects currently in the design and installation phases.

The Mainstream system has comparatively low capital and operating cost, and provides quality drinking water from surface and ground water sources, such as dugouts, wells, rivers, or lakes. It can be sized to meet specific requirements, from 200 to 400,000 gallons per day, and only requires simple maintenance.

Mainstream not only gives you the tools and equipment needed to clean your water but also provides ongoing service and support by offering complete project management and execution service. This includes installation, commissioning, water-testing services, engineering services, and training. Mainstream also handles the design aspect, develops pilot projects, and assist in financial grant applications.

In April of this year, the company will host its 2nd Annual Operators Seminar in the fittingly named town of Aquadeo, SK. At the seminar water treatment plant operators can earn continuing education credits towards their yearly requirement.

For more information on the seminar and the Mainstream system please visit www.mainstreamwater.com.

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Healthier water naturally

More and more people are looking for ways to improve their health and live more naturally, either through eating better or exercising, but one long forgotten path to anti-aging and longevity could flow right from your faucet.

The Wellness Water MG-III filtration and enhancement system provides clean water to every tap in the house making sure everyone in the household gets everything they need and nothing they don't. By utilizing ceramics, rare Japanese minerals and quartz, Wellness Water is magnetically manipulated and enhanced through an ionic process. The patented process includes an automatic backwash, which removes accumulated contaminants and then regenerates the filtration media. The result is conditioned, purified, and enhanced water that is beyond the capacity of any other household or commercial filter system.

The system can fit into any home, large or small, and can be even adapted to work for light commercial applications, such as restaurants. It can be used in just one room of the house or throughout the entire property to achieve maximum potential. The line of products can meet the hydration needs of anyone thirsty for clean, clear water.

"You can drink out of any tap in the house and know you're getting purified, filtered and enhanced water," said Bambi Blair of Regina, owner of Wellness Water Filter — an authorized reseller of Wellness Water products. "You will love the effect Wellness water has in your kitchen with the enhanced flavour it brings to your gourmet cooking."

For those who are looking for individual products there's a countertop or under counter unit for the kitchen that has been tested and certified to reduce bacteria by 99.9999 per cent and viruses by 99.99 per cent and a showerhead filter for the bathroom — letting consumers discover that the water not only tastes great but it feels great too.

"Testing has also been done on the showerhead and it was found that it externally increased the hydration of the body by 115 per cent so say goodbye to dry skin after a shower," said Blair. "You'll notice the difference in your skin and hair after just one bath or shower."

"It's like bringing a spa into your home." The "structured water" produced by all the units is enhanced with more oxygen and healthy minerals, which naturally softens the water without resorting to chemicals or salts, said Blair, thereby reducing the amount of laundry detergent or dishwashing liquid needed for a load, and the amount of shampoo and conditioner used in the shower.

Wellness Water also offers a filtered carafe for use in the fridge, a pen-sized wand for filtering and the H2O water bottle, ideal for purifying water at



the office, gym, or while traveling. Combined with the whole house system, these products ensure effective hydration no matter where you go. Also the money saved on bottled water and softener salt will let you enjoy your newfound vitality even more.

"With the whole house system there is no maintenance required for a period of seven to 10 years," explained Blair. The cost of installation is roughly around \$200 and any licensed plumber can install it."

"The MG-III system comes with a three-year warranty; and all units come with a 90-day money back guarantee."

Developed over 20 years by Haru Naito, a sports physiologist and former swimming coach for the Japanese Olympic team, the system blends natural processes with scientific research in order to create the ultimate water purifier.

He involved himself in health and performance research programs and as a result became an early proponent of "muscle memory" training. Haru's other fascination was the health and vitality of certain peoples in geographically diverse parts of the world, such as the Hunza of Pakistan.

Haru wondered how these groups enjoyed healthier and longer lives than people living in other regions. After extensive research, he determined the common element was a proximity to naturally occurring mountain water sources that were of delicate and exquisite composition.

Wanting to provide similar benefits to his athletes in Japan, Haru sought to devise a water purification system that embodied all of the key components found in the naturally occurring mountain spring waters. Over the years Haru's system evolved, first being applied to commercial structures and businesses then making a splash in houses around the world.

How Do You Celebrate World Water Day?

SaskWater is the leader in providing water and wastewater services in Saskatchewan. Along with our commitment to providing quality products, we are equally committed to promoting water conservation.

MARCH 22 IS WORLD WATER DAY. SaskWater encourages you to use this date to incorporate water conservation practices into your daily routine. Without safe, reliable water services, our communities will not survive. Understanding water's true value is vital to ensuring a reliable supply. It's never too late to start conserving water!

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Chemical-Free Drinking Water Treatment Systems

Mainstream Water Solutions Inc. specializes in custom-designed "green" drinking water treatment solutions for small municipalities, rural residents, and commercial and agricultural customers. Mainstream's ozone-assisted biofiltration systems have the following advantages:

- Provides exceptional water that meets all regulations
- Treats bacteria, iron, manganese, colour, staining, odours, turbidity, dissolved organics, tannins, arsenic, and much more
- Easy to operate
- Cost-effective
- Produces little wastewater
- Can be designed for surface or ground water, and customized to produce from 200 to 400,000 gallons of treated water per day

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