

WORK ON COMMUNITY CENTRE BEGUN



WILKIE - After the devastating fire in October, the clean up by FirstOnSite began and at the end of January the repairs to the tin outside and inside the complex started. This work will be completed by the end of February and the next phase of the reconstruction and renovations will begin. The community of Wilkie and the surrounding districts and towns are very excited to see what the new community centre will be like! Keep watching the Press-Herald for updates and reports. *Photo by Kathy Heilman*

Electrofloculation water treatment - how it works

The electroflocculation water treatment system has two processes where it can be employed. It can be done by a batch method with smaller quantities of water that can be left to sit in a closed container or it can be used in a continuous flow process where the water flows from tank to tank and the pollutants are removed during the process.

As described in its US patent, it uses a method “in which water is pumped continuously into one end of a container, the pollutants are captured and floated to the surface, the treated and

cleaned water flows out the other end and the floated pollutants are removed." Inside this system electroflocculation uses a "set of electrically active plates" to generate metal ions and millions of gas micro bubbles. In combination, the ions and bubbles "capture" the pollutants and float them to the surface. The system is designed so the "cleaned "water can flow to a second chamber, or more, to remove even more pollutants, until the water is "adequately treated with different sets of plates."

The voltage to the plates

is controlled within strict parameters by software developed by Dr. Robinson and his associates in order to create the ions and bubbles that will bind to the tiny pollutant molecules.

The process of binding makes the molecules larger and easier to remove. It renders the pollutants inert and insoluble. They can be removed from the surface of the water, dried and safely disposed in the landfill.

The cleaned water can also undergo a UV treatment and have chlorine added for final disinfection, thus creating

potable drinking water.

The environmental impact of waste water treatment is reduced with electroflocculation. There are no chemicals used nor are any filters or membranes needed to remove 95 percent of the particles contaminating the water. Only the smallest pollutants, at the nano filter level, such as salt, are not removed. The only chemical that may be added to the incoming waste water is acid, in order to neutralize an abnormal alkaline pH level. The plates can be recycled after replacement. The process uses minimal

electrical power, typically 0.03 to 0.07 Kwh/m³, to charge the plates.

Additionally, there is no backwashing required, plates do not get clogged with contaminants, and no labour is required to manage the system. The process is automated with remote monitoring and will even shut itself down if there is a problem.

Soneera Water promotes their unique process stating “In contrast, previous older attempts at electrolysis sank the contaminants to the bottom, thus creating a sludge and an additional

waste management issue. Traditionally, electrolysis used vast amounts of energy, electrodes were sacrificially eroded rapidly and the waste created was quite significant. Soneera Water has rectified these issues and offers a revolutionary product.”

Soneera Water has produced a short YouTube video showing the trial process at Surprise, Ariz. It can be accessed at soneerawater.com/soneera-sewage-treatment-facility-surprise-az/. More information can be found on its website at soneerawater.com/.

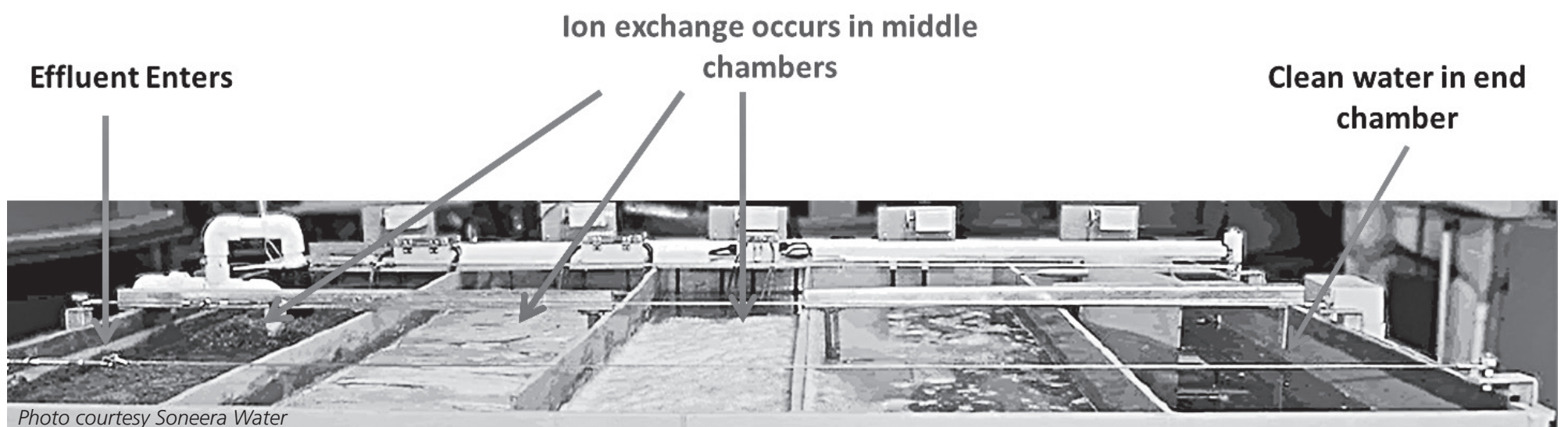


Photo courtesy Soneera Water

PROVOST SEED CLEANING PLANT

Seed Cleaning and Treating

780-753-2657

Hugh Baier, Manager

Thank You

Sincere thanks to all for acts of kindness,
cards and donations since the passing of
Edward Wollerman.

*The family of the late Eunice & Jim Ralston
Wilma & Vern Knowles and their families.*



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