

OBITUARIES

Edgar Jerome Fennimore

March 30, 1934 — May 31, 2018



Edgar Fennimore

Edgar Jerome Fennimore, 84, passed away on May 31, 2018, in Mt. Angel. He was born to Edgar L. and Madeline (Gilman) Fennimore at their home on Cascade Hwy. in Silverton on March 30, 1934. At 16 years old, Edgar moved to Anchorage, Alaska, for three years. He returned home and bought the farm across the road from where he was born. He met and married Jean Dowe, and they lived there for 62 years until he became ill. He enjoyed the outdoors, especially fishing, hunting and cowboy music. Edgar worked in construction for

over 40 years, mostly for Marion Construction of Salem. He loved his farm and his animals, especially his horses and cattle. Edgar was proud of his building projects and his log houses. He loved spending time with his family. Edgar is preceded in death by his parents; his brothers Charles, Emmett and Cyril; baby granddaughter Barbara Jean; and daughter-in-law Juanita. He is survived by his wife, Jean; his children, Michael (Judy) of Aloha, Patrick of Silverton, Melodee (Dan) Corgan and Ted (Edgar Jr.) of Salem; his brother, Gilmen; his sister, Sr. Mechtilde, O.S.B, of Mt. Angel; 18 grandchildren and 8 great-grandchildren. Services were held June 5, 2018, at St. Mary's Catholic Church in Mt. Angel. In lieu of flowers, please consider donations to Alzheimer's Research, St. Mary's Catholic Church or any

charity of your choice. Arrangements by Unger Funeral Chapel.

Carolyn Sophie Von Flue

Feb. 1, 1933 — May 30, 2018

Carolyn Sophie Von Flue, 85, passed away May 30, 2018. She was born in Elgin, Illinois, on Feb. 1, 1933. She is survived by husband Arnold Von Flue; children Timothy Von Flue of Lake Oswego, Michael (Sydney) Von Flue of Salem, Katherine Von Flue of Seattle, Washington, Daniel Von Flue of Salem and Steven Von Flue of Eagle, Idaho; and grandchildren Eleanora, Nicholas, Elise, Benjamin, Thomas, Tabitha and Jennifer. She was preceded in death by her parents, Fred and Sophie (Schmidgall) Wahlster; her brother, David Wahlster; and daughter-in-law, Rebecca Von Flue.

Cleaner

Continued from Page 1A

there's no reason to put out any special alerts," said Gates public works superintendent Greg Benthin. "If we wanted to, we could have. I didn't see any reason to do that." Salem, Stayton, Jefferson, Mehama and Lyons all draw their water from the North Santiam River, but all use older sand filters. Gates, the smallest city below Detroit Dam, has a newer, more sophisticated water filtration system.

How Gates' system works

Gates has a membrane filtration system, a type of system designed for filtering wastewater and producing water from industrial uses. The process worked so well, it started to be used in areas where conventional treatment styles are uneconomical. In California they have been used since 1993 – especially in areas where removing pathogens is paramount – but in Oregon, Gates' facility was one of the first when it opened in 2009.

In a membrane filtration system, the water penetrates hollow straws through pores .02 microns wide. A human hair is about 90 microns. The water is filtered and comes through the straw clean. There are about 20,000 straws in each of the four tanks – known as ladders – in Gates' membrane water filtration system, which is housed in a building no bigger than an average barn on the edge of the North Santiam River.

"In my opinion, the real benefit of a membrane filtration is it's a physical barrier," Benthin said. "As long as they're performing like they should, if (the toxins) are larger than this, it's not going to get through."

Bend opened a large-scale membrane water treatment facility in 2016 at a cost of \$33 million. Many larger municipalities are moving to the same process. In membrane water treatment, there are five types of processes that can be used: microfiltration, ultrafiltration, nanofiltration, electro dialysis reversal and reverse osmosis.

Each of the five processes filter the water finer and remove more contaminants. The ultrafiltration used by Gates filters out things like algae, cryptosporidium (which has been found in Portland's water in the past), bacteria, macromolecules, asbestos and virus.

How Gates got a superior water filtration system

Gates, a city without a website, has held water

rights from the North Santiam dating to 1951, the same time Detroit Dam was being constructed. Benthin said in the 1980s, Gates was using sand filtration. "It's just a different process," Benthin said. "A slow sand uses a biological process for removal for bacteria." Gates officials explored using wells for its water – which is what Mill City went to in 2005 – but couldn't find a promising well.

Benthin said the membrane water filtration system cost approximately \$1 million, paid for by a combination of a grants from the state and loans. The expected life of the facility is 20 years, but after nine years has had no drop in effectiveness and only had to replace a few parts in the pumping plant. Its system can filter a maximum of 330,000 gallons of water a day; on a slow day it will pump 40,000. Gates didn't test its water for cyanotoxins in its drinking water until the Oregon Health Authority offered to pay for testing three years ago. Outside of cleaning the equipment, Gates doesn't use chemicals in processing its water. It uses a small amount of chlorine in its finished drinking water. Gates residents paid an average of \$52.10 for 5,000 gallons as of 2016; Salem residents pay \$22.84 for the same volume.

How safe is the water in Gates?

In Gates' most recent test – from which it drew water on May 22 – there was an untraceable amount of cylindrospermopsin and .25 micrograms per liter of microcystin in the raw water pulled from the North Santiam.

After it was processed through the treatment plant, the levels of both cyanotoxins were undetectable by the tests performed by the Lake Superior State University laboratory.

Benthin draws water samples and sends them off for testing every two weeks. Had there been a positive test for any cyanotoxins in the finished water, Benthin said, he would send the water for testing more frequently.

Benthin said a noticeable difference between the membrane filtration system and Gates' old direct sand water treatment facility is the results in the finished water.

When Sheri Simpson worked at Lowe's, she was not a fan of tap water.

She changed her mind when she went to work for the city of Gates and saw its water filtration process.

"I used to buy bottled water until I started working here and saw how clean those filters are," Simpson said.

"So I started just drinking tap water from the city. It is amazing. It's better than any bottled water."

After a large rain storm, the river often flows a choc-

olate shade of brown. With the previous sand system Benthin would have to change doses in the chemicals he used to treat the water and hope it would come out clear. In Gates, the water always comes out of the filter clear.

"Here you don't worry about it," Benthin said. bpoebler@StatesmanJournal.com or [Twitter.com/bpoebler](https://twitter.com/bpoebler)

Notice of Preliminary Determination for Groundwater Registration Modification T-12494 T-12494 filed by Westwood Farms, PO Box 82, Saint Paul, OR 97137, proposes an additional point of appropriation under Registration Applications GR-533 and GR-2814. GR-2814 allows the use of 0.668 cubic foot per second from a well in Sec. 11, T6S, R3W, WM for irrigation in Secs. 2 and 11, T6S, R3W, WM. GR-533 allows the use of 0.067 cubic feet per second from a well in Sec. 11, T6S, R3W, WM for irrigation in Sec. 11, T6S, R3W, WM. The applicant proposes an additional point of appropriation in Sec. 2, T6S, R3W, WM. The Water Resources Department proposes to approve the modification, based on the requirements of ORS Chapter 540 and OAR 690-382-1000. Any person may file, jointly or severally, a protest or standing statement within 30 days after the last date of newspaper publication of this notice, MM/DD/YEAR. Call (503) 986-0807 to obtain additional information. If no protests are filed, the Department will issue a final order consistent with the preliminary determination. Silverton Appeal (2954694) 6/6, 6/13



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