BECKER COUNTY



Lakeshore lawns: In Detroit Lakes, native plant restorations catch on

SWCD's Clean Water Fund project targets lakes at risk for phosphorus

DETROIT LAKES – Justin Scallon's 125-foot stretch of lakefront interrupts a band of rock riprap that cinches most of Detroit Lake's shore.

Its bright-green oats cover crop, tall spikes of sedges and flowering black-eyed Susans stand out from neighbors' beige-and-gray rock land-scaping.

Like the riprap, Scallon's shoreline restoration will stabilize the bank. But his restoration also will cut the amount of phosphorus that enters Detroit Lake, reduce runoff, and provide fish and wildlife habitat. When the native wildflower seeding reaches maturity in about three years, it will bloom purple, yellow and white.



"When the (SWCD) had this program come out and they showed me the graphics and the layouts for what they could do, I just fell in love with it immediately," Scallon said. "With rocks, you don't get colors. You get colors with

Watersports and a variety of entertainment options drew Justin Scallon of Farao back to Detroit Lakes, where his family had vacationed when he was young. He said he wanted his three children to have a similar experience growing up. Through a Becker Soil & Water Conservation District program, Scallon pursued a shoreline restoration that incorporated native plants. Photo Credits: BWSR



all the plants that'll start blooming."

Scallon's restoration is part of a Becker Soil & Water Conservation District initiative that gives lakeshore property

owners a chance to help rescue recreational waters from the brink of impairment.

A \$254,900 Clean

A \$254,900 Clean Water Fund grant covers 75 percent of landowners' costs. Projects might include native plant restorations, rain gardens or

gutters – all designed to clean up the lake. The initiative targets 12 phosphorus-sensitive lakes where water quality is in peril or high quality and in need of protection.

WATER

"Some of (the lakes) were outstanding resources that were well-worth any protective effort. Anything you're going to do to keep water quality from taking a shift is good – from a standpoint of surface water quality, fisher-

ies quality, recreational opportunities, groundwater recharge," said Peter Mead, Becker SWCD administrator.

Detroit Lake – the centerpiece of Detroit Lakes' tourism in a county with 500 lakes and 300,000 annual visitors – is at risk because of elevated phosphorus levels. It connects to Curfman Pond, Lake Sallie and Lake Melissa.

"If Detroit Lake ever flipped it would be disastrous all the way downstream because everybody's kind of at their tipping point already, and Detroit recreation with who best for the lake and wildlife.

of Fargo discusses progress of his lakeshore restoration with Becker Soil & Water Conservation District Administrator Peter Mead, left, and SWCD shoreland technician Gabe Dretsch, right, during an Aug. 3 site visit. Scallon chose the seed mix for the two adjacent vacation properties he owns on Detroit Lake. With a \$254,900 Clean Water Fund grant, Becker SWCD is targeting 12 phosphorus-sensitive lakes where water quality is in peril or warrants preservina. Native plant restorations, rain gardens and gutters are among the potential projects. **BELOW:** Hemp rope

LEFT: Justin Scallon

and coconut-fiber matting anchor a shoreline restoration on Detroit Lake. They will decompose over time, as will the wooden stakes. While a true restoration would bring back trees, the SWCD is balancing landowners' desire to use their property for recreation with what's best for the lake and for wildlife.

Lake's the biggest contributor (of) upstream water," Mead said.

On Detroit Lake, 710 parcels of land touch the water. Year-round and vacation homes range from 1950s cabins to 7,500-square-foot new construction. Restaurants, a marina, beach and paved walking trail ring the lake.

"It's sort of a playground more than anything," Mead said.

"They (lakeshore property owners) like that green right down to the edge. They like to have a big sand beach.

And it's not necessarily what's supposed to be here. A few fairly significant projects around the lake helped to change attitudes pretty quickly. As with everything we do, yes, we're here to treat resource concerns. But really what we do is we change human behavior," Mead said.

One landowner can't single-handedly reverse decades of lawn-fertilizer applications and paved-surface runoff.

But one landowner can spread the word about the Becker SWCD initiative.

A Fargo-based homebuilder, Scallon, 36, was drawn to the town where he had vacationed as a child. Now he visits with his wife and three children, ages 2, 5 and 7.

"There are so many things to do out on this lake that you can't do in other areas," Scallon said, listing restaurants, watersports, city-sponsored events and a public beach. "I'm getting to show them what I enjoyed when I was 2, 5 and 7, and they're hopefully going to do that with their kids someday."

Scallon bought the vacation property with 50 feet of shoreline on Detroit Lake in 2012, and then purchased the adjoining property as a rental unit in May 2017. Both lawns extended downhill to a wave-carved drop-off.

Once he saw the first restoration taking shape, Scallon signed on for the second. One of Scallon's neighbors saw his shoreline and decided to pursue a restoration next year.

If pre-settlement were the gauge, restoring Detroit Lake's shoreline would mean restoring the forest – a rich riparian zone supporting fish and wildlife, and filtering pollutants. Native forbs, sedges and grasses are a compromise.

"We're realists. If these were shoreline restorations, we'd have trees everywhere," Mead said. "It's kind of about striking a balance. You reduce that disturbance right by the shore. It's better for everything

"The goal is to take any steps you can to make a gain toward nutrient reduction and stabilize the shores so you're not wiping out fish habitat with the sediment that's coming off of these lawns."

Peter Mead,
Becker SWCD administrator

that lives in the water and its better for us because we rely on the water."

Shoreline restoration can be a tough sell unless property owners have witnessed water clarity diminish or blue-green algae appear.

"A lot of people will be shy of doing native buffers because they're worried about what their neighbors will think of it," said Gabe Dretsch, Becker SWCD shoreland technician.

Neighbor-shaming is real – especially in lake communities, where everything is visible from the water.

Landowners who sign on to the SWCD program have a say in the plant mix, and get a pretty good idea how a mature planting will look. Armed

Many lakeshore property owners prefer to maintain lawns that reach the water's edge or curb erosion with riprap. A Becker Soil & Water Conservation Service initiative is aimed at reducing the amount of phosphorus that enters at-risk or high-quality lakes.

with mapping tools and a database of options and related costs, SWCD staff provide quick assessments and customized plans.

Scallon estimated his 25 percent costshare would total \$4,800.

During an August visit to Scallon's property, Dretsch checked the native grasses and sedges planted in coconut-fiber mats, held in place with hemp rope and wooden stakes. He suggested a bit more water. Eventually, talk turned to rain gardens, gutters and other possible improvements.

Scallon's view of Detroit Lake will remain unobscured; the tallest plants grow at the bottom of the bank. He'll still be able to access his boats.

"We try to strike a balance between how they want to use their property and the conservation goals that we have. They may not want 100 feet of native vegetation in a tiny little 2-footwide path down to their lake. So you have to play a little bit of give-and-take or maybe work a little bit harder to sell certain aspects of why you would use a certain type of vegetation," Mead said.

"We try to keep it so they have an area for recreation. That's important to them and us that they have that, because that's what they come to the lake for. We try to work with them as much as we can," Mead said.

SWCD staff follows up with detailed maintenance and cost-share requirements. Landowners agree to keep lakeshore restorations in place and kept up for 10 years.

"This isn't just us coming in and beautifying your yard and walking away," Dretsch said.

The Minnesota Board of Water and Soil Resources' mission is to improve and protect Minnesota's water and soil resources by working in partnership with local organizations and private landowners. www.bwsr.state.mn.us.