

PROJECT PROFILE

An Affordable Wastewater Treatment Solution for Residential Properties

FARIBAULT, MINNESOTA

Problem A lakeside home in Faribault, Minnesota had a failing septic system. But site constraints made a typical mound system untenable, since it would have blocked the homeowners' view to the lake.

Solution An AdvanTex® Treatment System manufactured by Orenco was able to provide advanced wastewater treatment and meet the homeowners' location constraints.

AdvanTex® System Provides Wastewater Treatment Solution for a Difficult Site

"We noticed an odor coming from our septic system and determined that the whole system had to be replaced," said Thor Hagberg, owner of a lakeside home with a beautiful sloping yard down to the water.

"There was very little room for a traditional 2800 square foot mound system," said Hagberg. "The back yard was out of the question. The backyard slopes down to the lake on the west side, the well is on the north side, a ravine runs along the south side, and the existing septic drainfield was on the east side."

Fortunately, the Hagbergs knew Doug Sonnee, an excavator, designer, and installer of septic systems. Doug was familiar with difficult properties like this one and introduced the Hagbergs to the AdvanTex® Wastewater Treatment System, manufactured by Orenco. AdvanTex is a small,



An Advantex® Treatment System provides a wastewater treatment solution that doesn't take up the yard — or the lakeside view — with an ugly mound system.

Residential Market

Project Overview

FARIBAULT, MINNESOTA



Installation Date

- June 2010

Local Unit of Government

- Rice County Environmental Health

System Classification

- Type III System

Design Flow

- 200 gpd

Treatment System

- 1,000 gal. septic tank
- 1,000 gal. recirculation tank
- 500 gal. dose tank
- (1) AdvanTex® AX20 Textile Filter

Dispersal

- 300 sq ft pressurized bed

Monitoring and Control

- VeriComm® Monitoring System

Designer and Installer

- Sonnee Environmental Services

Equipment Provider and Operator

- Advanced Onsite Solutions

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The AdvanTex Treatment System is installed flush-to-ground (circled) and fits nicely into the landscaping.

3 ft x 7 ft (914 mm x 2286 mm) recirculating textile filter that produces effluent of such a high quality that, in many jurisdictions, homeowners are allowed to disperse it to a much smaller drainfield.

Sonnee designed an out-of-the-way system that was aesthetically pleasing and hidden from view.

“The greatest feature of our lake home — and the reason we purchased it — was the beautiful, long sloping lakeside yard,” said Hagberg. “Thanks to Doug, we found a way we could minimize the area for a treatment system, and fit our lot constraints. You hardly even notice it exists.”



The existing drainfield on the east side of the house was replaced with a small, 300 sq ft box mound dispersal area.

“We were very impressed after viewing a sample of our treated wastewater. The water looked as clear as water coming out of a garden hose. It made us feel confident we had selected the right system.”

– Thor Hagberg, Homeowner

For more information about effluent sewers, Orenco Sewers™ and AdvanTex® Treatment Systems, contact Orenco Systems®, Inc.



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Data used by Orenco to derive the representations and conclusions contained within this Project Profile were current as of September, 2013.