

# PROJECT PROFILE

## An Affordable Wastewater Treatment Solution for Residential Properties

### SPICER, MINNESOTA

**Problem** A lakefront building site with a high seasonal water table was too small to fit the owners' house design and a typical 2000-sq-ft mound system.

**Solution** An Orenco AdvanTex® Treatment System was the solution for this environmentally sensitive site, with a footprint of less than 25 sq ft, followed by a 780-sq-ft drainfield.

### AdvanTex® System Makes it Possible to Build "Dream House"



AdvanTex® Treatment Systems fit neatly into the landscaping with no unsightly mounds.

Dean and Joan Hanson had always dreamed of building their dream house on their lake lot. The lot is located on Lake Andrew in Kandiyohi County, Minnesota and is ideally elevated for a view of the lake.

For nearly ten years they spent the summers in a travel trailer parked on their lot. When the family outgrew the camper, they made plans to build.

They discovered, however, that the lot was too small to fit their house plans and a "standard" septic system. The depth to the seasonal high water table was less than 4' below grade and would require an above-grade mound system to adequately protect the ground water from sewage contamination. The footprint of the mound system would be more than 2,000 square feet!

### Residential Market

#### Project Overview

### SPICER, MINNESOTA



#### Installation Date

- November 2008

#### Local Unit of Government

- Kandiyohi County Environmental Health

#### System Classification

- Performance System

#### Design Flow

- 450 gpd

#### Treatment System

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

#### Dispersal

- 780 sq ft pressurized bed

#### Monitoring and Control

- VeriComm® Monitoring System

#### Designer, Installer, & Service Provider

- Jeff Johnson Excavating Inc.  
(320) 220-0428

#### Equipment Dealer

- Kevin Kloepfner, Advanced Onsite Solutions  
(763) 633-1766

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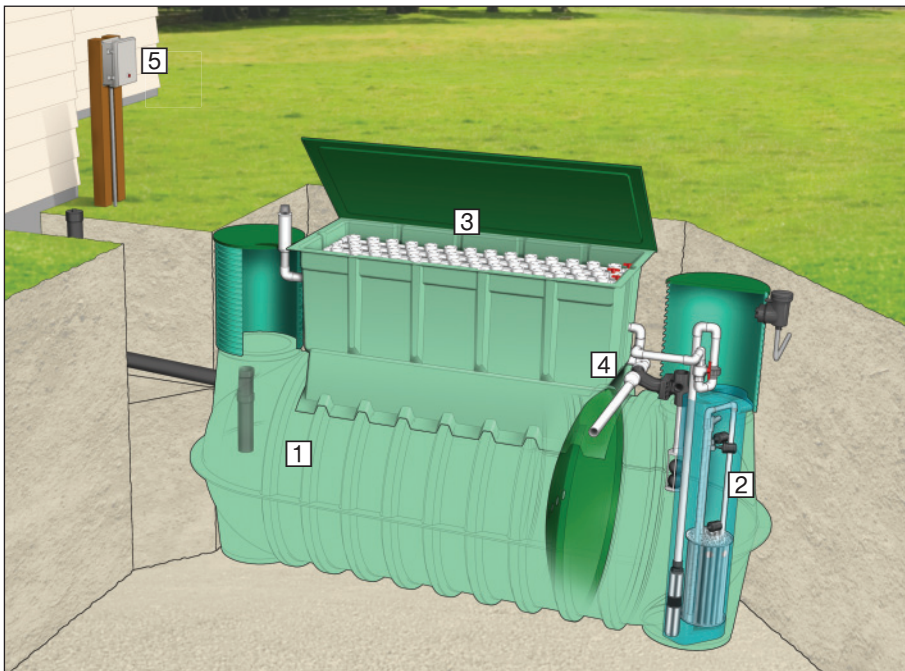
## SPICER, MINNESOTA

Unless someone could come up with an acceptable alternative to an above-grade mound system, Dean and Joan would not be able to build their dream home on the lake.

Luckily for Dean and Joan, their builder knew Jeff Johnson, an excavator with knowledge and experience in designing and installing alternative septic systems on difficult lots like theirs. Rather than downsizing their dream home or installing an undersized mound system, Jeff proposed the installation of an AdvanTex® Treatment System, manufactured by Orenco®.

The Local Unit of Government (LUG) understood the high level of treatment provided by the AdvanTex system would allow for a reduced vertical separation distance to the seasonal high water table while still protecting the groundwater and nearby wells. An AdvanTex Treatment System with an aesthetically pleasing, 780-square-foot, below-grade drainfield was installed.

This site is another example of how an AdvanTex Treatment System can be used to provide wastewater treatment for a difficult site.



The AdvanTex Treatment System is small enough to install right on top of or next to your septic tank. The system has five main functional parts:

1. Processing tank
2. Biotube® pumping package
3. AdvanTex filter
4. Recirculating splitter valve
5. VeriComm® Web-based monitoring system\*

\*MVP digital programmable panels are available as an option in some markets.

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

## Residential Market

*“It was so easy. Jeff and Kevin explained the AdvanTex® Treatment System and how it would work. Jeff installed the system, and we knew it would be done right. We were thankful to eliminate a huge mound which would detract from the curb appeal. We also appreciate the VeriComm monitoring technology. Having the system monitored means we don’t have to worry about it.”*

~ Dean and Joan Hanson  
Homeowner

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

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