CASE STUDY

Presby Environmental, Inc.

PROJECT NAME

Wisconsin Residential Advanced Enviro-Septic® (AES) Treatment System

SYSTEM SPECIFICATIONS

450-gallon per day Advanced Enviro-Septic (AES) system with treatment area of 12’ x 32' and new septic tank

PRODUCTS USED

Presby Environmental Advanced Enviro-Septic (AES) Combined Treatment and Dispersal System

INSTALLATION DATE

November 2019

CONTRACTOR

Eric Asenbrener
Eric’s Septic
Shawano, WI

DESIGNER

Warren Hohn
Merrill, WI

INFILTRATOR
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First Wisconsin Advanced Enviro-Septic® (AES) Treatment System Solves Limited Space and Seasonal High Water Challenges

SUMMARY

A replacement drainfield was needed for a three-bedroom Wisconsin residence on a lot with high water tables and limited usable space.

CHALLENGES

Years of use and a old, leaking tank that had infiltration issues adding to the outflow to the drainfield. Limited space and depth to a seasonally-high water table of 36” at grade. Limited areas of non-compacted soils impacted the available footrprint of a replacement system and eliminated the use of a traditional mound with stone.

SYSTEM DETAILS

A new 450-gallon per day Combined Treatment and Dispersal Advanced Enviro-Septic (AES) Treatment System was designed by Warren Hohn and installed by Eric’s Septic. Sizing was based on 150 gallons per day per bedroom. The AES System has been proven to remove up to 99% of wastewater contaminants without using any electricity or replacement media. The overall footprint of the system is 17’ x 32’ basal area with a treatment area of 12’ x 32’ and specification of the AES system was key to reducing the drainfield size and producing better quality effluent to accommodate the high water table. The installer removed 12” of the 36” of native soil and replaced it with 12” of CSS mound sand. The native soil has a loading rate of .5 and the AES system design enabled loading of the system at 1.0, thereby reducing the footprint. Working with the AES product for the first time was challenging and regulators had to become comfortable with the product and the design as the project unfolded.

RESULTS

This was the first AES system installation in Wisconsin. The engineer found the component manual easy to work with and was pleased that the new system fit in the limited space available. The regulator was happy with the overall system installation process and the quality of the effluent returned to the soils. Having Presby Environmental personnel on site through the installation process was helpful to all parties.