

Aquaworx Remediator™ Solves Ponding Issues for Residential Septic System

Effluent ponding levels drop 18" in 13 days after installation.



Project

Renovation of a residential septic system with a malfunctioning sand filter using the Aquaworx Remediator.

Installation Date

October 19, 2007

Owner

Joe and Willamena Wise,
Washington State

Contractor/Installer:

Bloomquist Excavation & Septic
Installation Inc.
Washington

System Specifications

1250 gallon concrete septic tank
150-foot gravel drainfield
15 years old

Excessive vegetation growth over the sand filter area of their 15 year old septic system and spongy soft soil in some locations in their yard alerted Joe and Willamena Wise that they had a potential problem.

The existing malfunctioning septic system consists of a 1250 gallon septic tank, followed by a dosing tank, followed by a 360 square foot effluent sand filter with a pump vault in a 1250 gallon septic tank followed by a 2-compartment dosing tank and a 150' gravel drainfield. Not sure what to do next, the Wises contacted Bloomquist Excavation and Septic Installation.

The initial site evaluation by the Bloomquist team revealed that the sand filter was ponded 2" above the distribution laterals (Approx. 6" under ground surface), while liquid levels in the sand filter pump vault were normal. Recognizing this as a classic indicator of effluent perching upon a restrictive biomat layer it was agreed that a plan of repair was clearly needed. Bloomquist turned to the Aquaworx/Infiltrator team for a solution utilizing the Aquaworx Remediator.

The Aquaworx Remediator is an aerobic bacteria generator. Its airlift column has cusped plastic wrapped around the bottom outside of the unit and within the unit to provide substantial surface area for the colonization of introduced bacteria. The Unit works by introducing oxygen and bacteria which team together to reverse the clogging process. The active culture of these bacteria creates an environment within the Unit that results in predictable drainfield remediation. The bacteria within the oxygen rich wastewater consume some of the organics in the tank, and then bacteria move out to the drainfield where they continue to consume wastes there. This eliminates the need for a complete drainfield replacement.

"I recognized that the best and clearly most cost effective solution would be to find a way to rejuvenate the sand filter while keeping the bulk of the existing system in place," commented a Bloomquist Excavation and Septic Installation employee.

One day after the Aquaworx team assessed the situation, the Remediator was installed and functioning in the second compartment of the septic tank. The goal was to reduce the biomat and ultimately the ponding of the system returning it to full, optimal operation over time. Monitoring ports were also installed for ease of future performance checks.

During a follow up visit conducted by Aquaworx/Infiltrator staff on October 31 at which time ponding levels were evaluated via the monitoring ports, liquid levels were recorded at 24" below ground surface within the sand filter. This reflected an 18" drop in effluent levels in only 13 days.



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