



# Overloaded Septic System Drainfield Gets Moving Again with Installation of Aquaworx Remediator™

## Root bound pipe replaced and Remediator installed to reduce biological clogging

### Project

Renovation of a biologically overloaded septic system and root bound drainfield

### Installation Date

September 4, 2007

### Owner

Virginia Hiser  
Olalla Washington

### Contractor/Installer:

Daryl Hemley,  
Ron Hemley Septic Installations Inc.  
Port Orchard, Washington

### System Specifications

1,000 gallon concrete septic tank  
150-foot gravel drainfield

### Daily Flow Estimate:

Five people at 50 gpd. = 250gpd.



With effluent surfacing near the lower line of a two-line drainfield, it was clear that the Hiser household was having a septic system malfunction. Upon site evaluation by Daryl Hemley of Ron Hemley Septic Installations Inc, it was obvious that there was root intrusion in the first drainfield line of the system along with biological clogging of the entire drainfield system. Wastewater was no longer entering the first line which caused an overloading of the bottom line and sewage to push up through the ground surface.

Daryl sought the assistance of Aquaworx/Infiltrator to come up with a workable solution to rejuvenate the biological clogging of the existing system. The goal was to not replace the entire system, which consisted of a two-compartment 1000 gallon tank, gravity feeding from a distribution box to a 150 foot long stone and pipe drainfield (two-75 foot long lines, 3 feet wide). The team determined that the first step was to replace the root-bound section of pipe to improve distribution to the drainfield. Next, an Aquaworx Remediator was installed in the second compartment of the septic tank to reduce drainfield biological clogging and improve the system's infiltration.

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.

“The Remediator was easy to install and prevented us from a more intrusive septic renovation with excellent results,” said Daryl Hemley. “The homeowners were very pleased with the quick repair and reasonable cost of the work.”

A follow up visit was conducted by Aquaworx/Infiltrator staff 30 days after installation of the Unit at which time the effluent levels in the area of the drainfield had dropped by five inches. A second site inspection and system evaluation was conducted by Aquaworx/Infiltrator staff 20 days later and an additional 10” drop in effluent levels was recorded. Currently the site is in a stable state, the drainfield area has dried up, and the Hisers no longer have to suffer from a wet and horrible smelling yard.



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