

## CASE STUDY

# Enviro-Septic Used in Community Wastewater Treatment System

## Newbury, NH

### SYSTEM SPECIFICATIONS

50,000 GPD Wastewater Treatment System

### INSTALLATION DATE

2011

### PRODUCTS

Enviro-Septic® (AES) combined treatment and dispersal system

### OWNER

Blodgett Landing Community, Newbury, NH

### DESCRIPTION

The Blodgett Landing Community Treatment Plant is a 50,000 gallon per day (GPD) facility in Newbury, NH, that uses passive treatment, denitrification, and dispersal to purify the town's wastewater. As the town population grew, facility operators began detecting elevated levels of nitrogen in the effluent and groundwater and began pursuing an upgrade solution. The facility's limited budget required that any treatment plant upgrade solution be effective and affordable both in upfront cost and ongoing operations and maintenance expense. Additionally, Newbury's economic dependence on recreational tourism required a solution that would preserve the area's natural beauty.

Several options were explored before town officials contacted Infiltrator Water Technologies for help. Infiltrator recommended replacing the existing sand filter configuration with an Enviro-Septic system. The system's compact size and low maintenance requirements made it ideal for the Newbury system and the approach complements the existing Imhoff tank and recirculation.



The Blodgett Landing Community WWTP explored a number of options, including lining the original sand filters so that effluent could be recirculated into an Imhoff tank. However, this approach didn't deliver consistent treatment results – especially during the winter months. Uncontrolled freezing and insufficient denitrification were fairly common whenever temperatures fell below a certain threshold.

The Enviro-Septic pipe uses passive filtration and bacterial ecosystems, eliminating the use of harmful chemicals or an external power source. The water treatment process is 100 percent green enabling Newbury to protect its natural resources. The system also performs well in varying climates including freezing temperatures in colder months. The Enviro-Septic product is also a proven technology for removing up to 99 percent of contaminants, including Fecal Coliform, TKN, TN, TSS, and BOD.

