

CASE STUDY

Passive wastewater treatment for a farmhouse

ECOFLO | **REWATEC**



QUICK FACTS

Application

Farmhouse / bed and breakfast, Northumberland

Requirements

- A passive wastewater treatment solution
- An eco-friendly system that could cope with shock loadings
- Capacity redundancy for future developments
- A modular system to counter the sloping landscape of the site

Solution

Ecoflo septic system and Rewatec vertical pump station

SITUATION

A Farmhouse bed and breakfast based in the peaceful Northumberland countryside, had a requirement for a new wastewater treatment system to adhere to the current regulations set out by the Environment Agency.

Due to the close proximity of the existing residences, and the quiet surroundings of the property, it was important to mitigate against any potential noise pollution with a discrete, passive treatment solution.

A modular system to suit the sites' footprint and to counteract the sites' sloping landscape, was also a prerequisite of any new installation.

In addition to factoring in capacity redundancy for future expansions, the system also had to cope with seasonal loading fluctuations, as well as peak flows.

SOLUTION

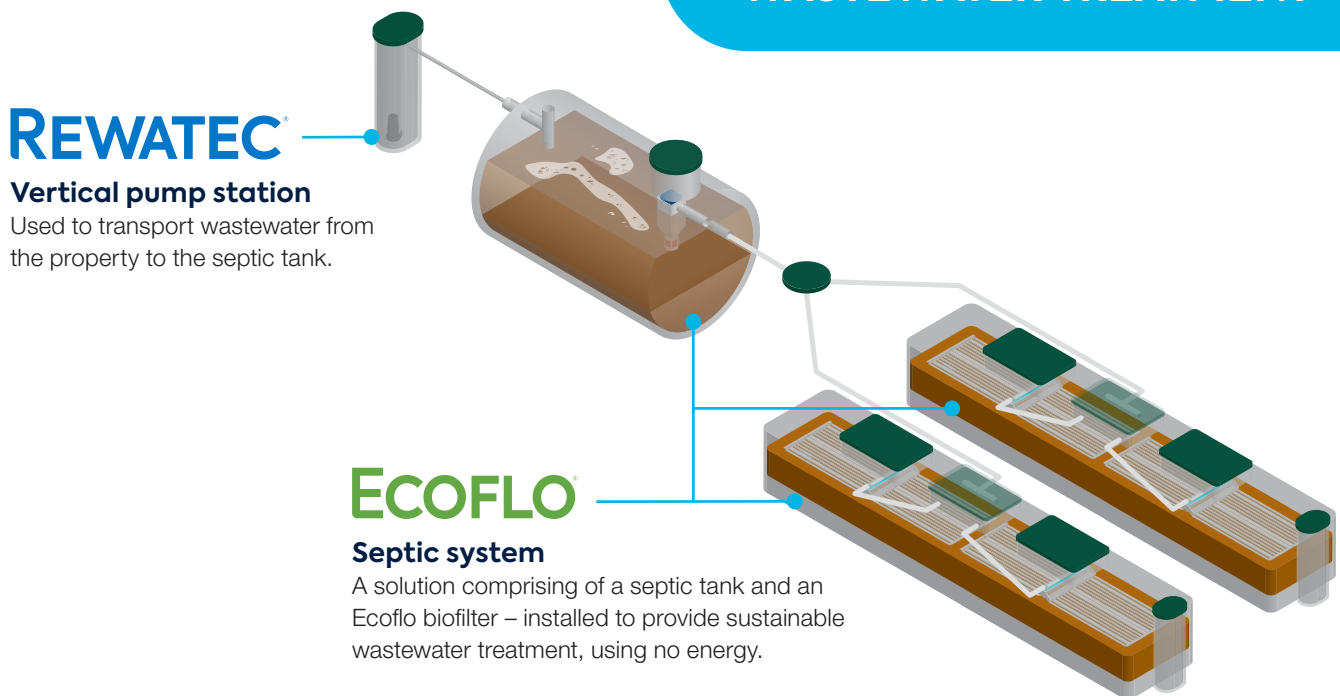
After reviewing the site requirements and speaking to the experts at Premier Tech Water and Environment, Culsmore Ltd – the engineering contractor for the project, recommended the installation of an Ecoflo septic system and a Rewatec vertical pump station.

The Ecoflo septic system, which comprised of two 26PE Ecoflo biofilters and a 10,000 litre Rewatec septic tank, was installed by our partners SHR excavation to provide energy free wastewater treatment for the Farmhouse.

The septic tank will partially treat the wastewater before it is evenly distributed between the two Ecoflo biofilters. It will then percolate through the all-natural coconut husk filtering media for a much cleaner final effluent – helping to protect the grounds of the property, and our environment for generations to come.

The 3,550 L Rewatec vertical pump station was also installed upstream of the system to transport wastewater from the property and up to the septic tank for treatment.

ZERO ENERGY REQUIRED FOR WASTEWATER TREATMENT



"The Ecoflo septic system and Rewatec vertical pump station is now operational and working well. We have found Premier Tech to be very professional and a one stop shop for us. We would like to thank your Regional Sales Manager - Charles Wilson, who has been available for support throughout."

Bob Gelley, Culsmore Ltd.



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