The Shaftesbury Estate
A Sustainable Wastewater Success Story

The Shaftesbury Estate has long championed responsible land stewardship, and its approach to wastewater management is no exception. In 2011, St Giles House took a major step toward environmental sustainability with the installation of a Bio-Bubble Wastewater Treatment Plant.

Expanding the Vision: The Home Farm Project (2025)

As the Estate expanded, its wastewater demands grew with it. By 2025 the Home Farm development required a new treatment solution, and the Estate opted to build on the modular, scalable strengths of the Bio-Bubble rather than install a standalone system. This approach allowed the new plant to integrate seamlessly with the existing Bio-Bubble installed at St Giles House.

Delivered in partnership with M J Abbott, who undertook the civil engineering works, the project overcame challenging ground conditions and a high-water table. The successful installation created a unified, future-proof system designed to support the Estate's long-term sustainability goals.

This forward-thinking decision enabled:

- Integration of the original 2011 Bio-Bubble with a new Bio-Bubble unit, creating a single, larger, estate-wide treatment system.
- Reuse of the existing structural assets, while upgrading mechanical and electrical components to modern standards.
- A seamless connection of all site catchments, improving efficiency and reducing long-term operational costs.

Enhanced Technology for Modern Demands

The expanded system now includes:

- A Bio-Screen to remove inorganic materials early in the process, improving plant performance and reliability.
- A robust remote monitoring system, providing real-time operational insights via broadband connection—ensuring rapid response, optimised performance and peace of mind.

A Sustainable Outcome for the Estate

The result is a highly efficient, environmentally responsible wastewater treatment solution that supports the Shaftesbury Estate's commitment to sustainability. By investing in modular technology and future-proof engineering, the Estate has secured a long-term, low-impact method of managing wastewater across its operations.