

Lleithyr Meadow Touring Caravan Site

Project: Lleithyr Meadow Touring Caravan Site
Client: Leading UK Caravan Site Operator
Works: Installation of new sewage treatment plant
Manufacturer: WPL Limited
Installation: Watling Hope

PROBLEM

After major investment from the club the site underwent a complete refurbishment of the Toilet Block, Reception Building and Wardens' Pitches and also an upgrade to the potable water system.

As part of the site improvements, The Caravan Club asked Watling Hope to design, supply, install and commission a replacement sewage treatment plant and to upgrade the existing foul drainage system.



SOLUTION

Watling Hope undertook a full assessment of the site's requirements based upon current and anticipated occupancy. Watling Hope's proposal was to install a new HiPAF sewage treatment plant to take the existing foul waste from the Toilet Block. This was to render 4 existing Cesspools redundant. In addition Watling Hope proposed laying 300m of new gravity drainage to enable all foul waste from the Reception and Wardens' Pitches and grey water from the Service Points to be treated by the new HiPAF plant. So as to connect two of the lower Service Points we also installed a Flygt Compit pumping station to pump grey waste water up to the HiPAF system for treatment. This provided maximum treatment of site-effluent whilst at the same time conserving capital investment.

The proposed solution was to enable all sewage effluent to be treated onsite in an environmentally sustainable and process efficient manner. This would alleviate the need for regular emptying by sewage tanker which offered significant cost benefits to the client.

Watling Hope were instructed to proceed with the works which were carried out using Watling Hope's in-house installation team. The site conditions were challenging (the ground was predominantly sandy with some rock present at depth; high groundwater was also present requiring pumping throughout the works) so the Primary Settlement Tank 5.35m long x 2.86m wide x 3.5m deep and the BioZone/Final Settlement Tank 7.95m long x 2.86m wide x 3.5m deep required sheet



piling and edge protection. All excavated material was removed from site. The works were completed on time and within budget.

Works were carried out over a period of 3 weeks in accordance with a site specific method statement and risk assessment. No accidents were reported during the works.

RESULTS

Watling Hope's Project Manager Trish Gaunt comments "The Caravan Club understand the importance of managing wastewater on their sites, both from an operational and environmental perspective. We were delighted to undertake the works on this project and I think the fact that it was challenging is a real showcase of our installation team's abilities."

- New HiPAF[®] sewage treatment plant installed
- Enabling groundworks completed
- System discharge effluent tested and meets Environmental Permit Standards
- Odours and nuisance eliminated
- Works completed on-time and within budget

WPL Ltd is an internationally-recognised leader in the design, manufacture and supply of standardised and bespoke environmental sewage, wastewater and commercial kitchen grease management process solutions.

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