Bedford Pumps help clean up Manx beaches with IRIS scheme success

Bedford Pumps Ltd have played their part in raising the Bathing Water Quality for the Isle of Man Water and Sewage Authority, from poor to excellent.

The beaches receiving an excellent or good rating are those served exclusively by IRIS (Integrated Recycling of the Island's Sewage).

Bedford Pumps manufactured and installed replacements pumps for both of the pumping stations which form the IRIS scheme; Loch Promenade and White Hoe P.S.

The IRIS Scheme was a huge investment for the Island's Government whereby numerous small treatment plants and pumping stations throughout the island were replaced by a network of pipes and the two large pumping stations, Loch Promenade and White Hoe, to bring all the island's waste water to one major new treatment works at Meary Veg.

The scheme was commissioned in 2003, however the original pumps were plagued with problems of blockage, vibration and consequential mechanical failures from the outset.

By 2004 the end user (Drainage Division for the Department of Transport) decided to write off the original pumps and contracted Bedford Pumps Ltd to replace all four pumps at White Hoe. The duty for each pump was 260 l/s @ 90m TDH and the existing motors had to be used to minimise the cost of the retrofit. Pumping raw sewage at high heads is a big challenge for hydraulic designers but Bedford's expertise in this area and their ability to provide an Engineered Solution resulted in a successful outcome. This success resulted in the client awarding the contract to replace all four pumps at the Loch Promenade P.S.

The project value was in excess of half a million pounds and included removal and disposal of the failed original pumps, and installation and trial of the new Bedford DV pumpsets.

Government tests have found an improvement in water quality on Manx beaches

Original failing pumps removed and replaced

Replacement pumps at Loch Promenade and White Hoe P.S.

BEDFORD PUMPS CASE STUDY