

SCHEME

**Chain Bridge, Neath, South Wales**

CLIENT

**Morrison Construction Services Ltd**

CONSULTANT

**Hyder Consulting**

CONTRACTOR

**Morrison Construction Services Ltd**

PIPE APPLICATION

**Combined Sewer Overflow (CSO)**



## Chain Bridge scheme gets LiteSpeed treatment



The application of a prefabricated Weholite HDPE pipe solution, known as LiteSpeed, meant that the main contractor Morrison, were able to complete the installation of a new combined sewer overflow (CSO) at Chain Bridge, Neath, within a matter of hours !

This ground breaking design is set to reduce the costs of constructing CSOs, used as part of essential water infrastructure upgrade work across Wales and the rest of the UK.

LiteSpeed design incorporates built-in weir walls, an Alpheus control unit from CSO Technic and Huber screen within a 5.5m x 1.8m diameter prefabricated HDPE CSO chamber. The design allows for overall weight to be reduced significantly to around 1.5 tonnes whilst providing access for maintenance and removal purposes.

The Neath CSO site is set within 10m from a river bank, with the need to ensure the reduction of CSO spills into the Neath river in order to comply with Environment Agency Standards. Restricted

access in a close proximity of a residential area and overhead power cables all added to the difficulties of the contract.

LiteSpeed provided the perfect solution as the chamber was manufactured off site at ASSET International's Newport Depot, and then lifted into position and securely placed using a mobile crane.

A 387m<sup>2</sup> capacity storm water storage tank, comprising of 2 x 56m lengths of 3m diameter Weholite HDPE pipe also installed. This additional storage will hold back water during periods of high rainfall to reduce the overflow of stormwater entering the Neath river. The tank was delivered to site in only three sections and connected to the LiteSpeed CSO.

The introduction of LiteSpeed is being spearheaded by Welsh Water Capital Alliance and its partners Morrison Construction and Hyder Consulting.

## THE ESSENTIAL SOLUTION FOR PIPE USERS NATIONWIDE

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