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Title: **Darwen WwTW & Clarence Street UID**
Location: Darwen, Lancashire
Client: United Utilities
Project Manager: Roger Woodcock
Main Contractor: Donegan
Commenced: August 2008
Completed: December 2009
Value: £3.60m

Background Of The Works:

The scheme was designed to provide off line storage and 2no. New mechanically screened outfalls into the River Darwen to ensure compliance with the Environment Agency discharge standards.

Scope Of The Works:

Construct a 15.00m diameter shaft by caisson to a depth of approx 15m, with over 1,000m³ (1,000,000 litres) storage capacity for foul water. Install a 450mm diameter ductile iron backdrop and submersible pumps in the detention tank.

Civil Engineering & Tunnelling Contractors

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The pumps in the detention tank would then pump the foul water up a set of twin 200mm diameter rising mains approx 200m in length.

Construct a 12.50m diameter shaft by underpinning around an existing 4.00m diameter tunnel. This would then become a CSO Chamber with a powered screen installed along the weir wall.

A number of insitu reinforced concrete chambers were formed including a Bifurcation Chamber, a Screen Chamber, a Valve Chamber and a Weir Chamber.

Over 300 metres of 750mm diameter and over 200 metres of 450mm diameter concrete pipes were laid up to 4m deep, along 16 manhole chambers to upgrade the sewer network around the area and increase the overall capacity.



Europa Way
Stockport
Cheshire
SK3 0WT

Phone: 0161 495 7300
Fax: 0161 428 5553
Web: www.donegan.co.uk
E-mail: mail@donegan.co.uk