

The Complete Construction Service



Donegan
Civil Engineering



Title:	<u>Witton Park BBN0044</u>
Location:	Blackburn
Client:	United Utilities
Project Manager:	Carly Atherton
Main Contractor:	Donegan
Commenced:	February 2012
Completed:	February 2013
Value:	£2.50m

Background Of The Works:

The purpose of this project was to resolve the unsatisfactory intermittent discharge (UID) from the combined sewer network to the River Blakewater which has been allocated aesthetic and river impact drivers; specific UID reference is BBN0044.

The solution will ensure that spill flows up to and including a 1 in 5 year return period are screened to a 6mm standard in two dimensions and will contribute to the River Quality Objective (RQO) for the River Blakewater.

Civil Engineering & Tunnelling Contractors

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Scope Of The Works:

- 20m internal diameter detention tank (stored volume in tank 4500m³) complete with vac-flush central column
- RC Discharge chamber
- RC Static screen chamber
- Outfall Sewer from Static Screen
- Extension to existing CSO chamber
- 110m of 750mm pipework from extended CSO chamber to detention tank (trenchless)
- 4.00m Drive shaft for trenchless pipework
- 750mm pipework from detention tank to River Blakewater (via new CSO chamber)
- Outfall Structure
- 1 No Isolation Penstock
- 1 No Outfall Sewer Flap Valve
- 2 No Submersible Storm Return Pumps
- 1 No submersible Scavenger Pump.
- 1 No tank flushing system, complete with vacuum pump, actuated valves, pressure and vacuum pipe, flushing column diaphragm valve assembly.

