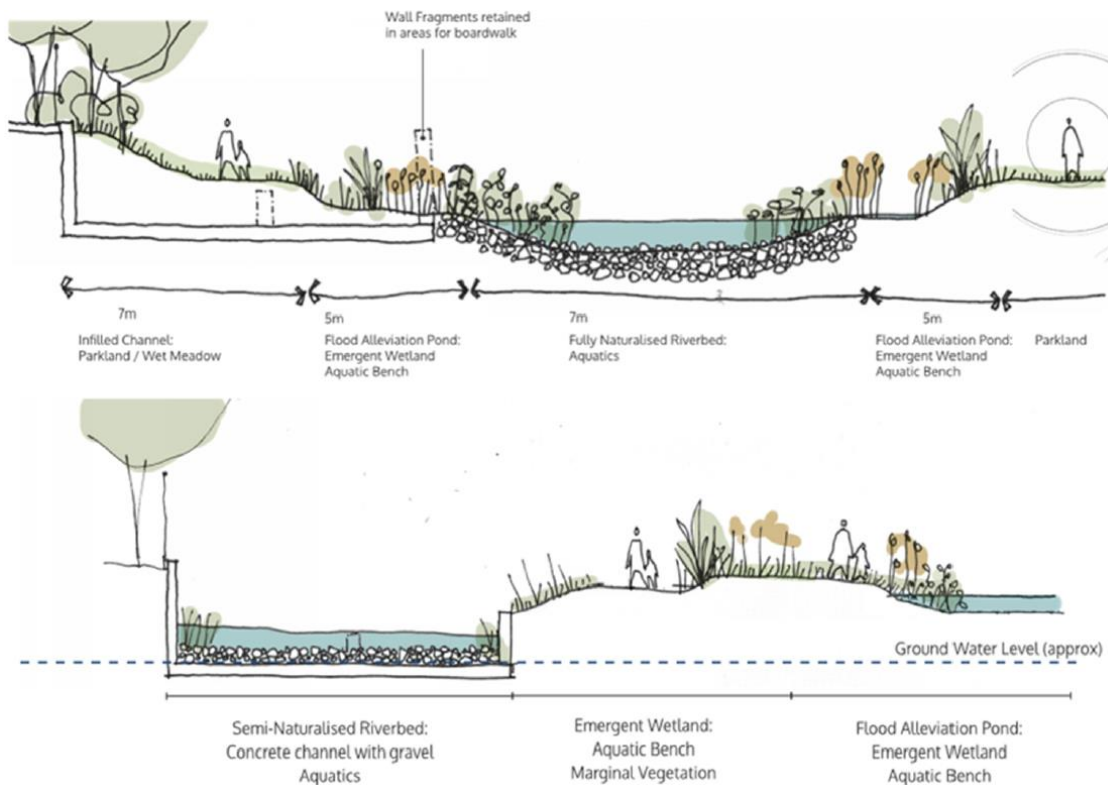


Meridian Water: Water Framework Directive Assessment



Client

London Borough of Enfield

Key collaborators

Karakusevic Carson Architects, Periscope (Landscape Architects), UK Environment Agency

Key services provided

Provided ecological expertise and managed the production of a Water Framework Directive Assessment for the outline planning application for Meridian Water Phase 2, a mixed-use residential-led development in the London Borough of Enfield

Fee

£35,000

Duration

6 months

Arup's team of ecologists worked closely with hydro-geomorphologists and hydrological engineers to assess the watercourses against Water Framework Directive criteria.

The ecology and water teams worked closely with hydrological engineers to assess the impact of river naturalisation and other engineering designs for watercourses within the Meridian Water Phase 2 site in the London Borough of Enfield. The Water Framework Directive (WFD) assessment was managed by the ecology team due to the emphasis on ecological restoration and biodiversity enhancement in the designs.

To ensure a thorough assessment, the team conducted a site walkover to better understand the baseline condition of the watercourses. They also liaised with the design team to gather information on the design options and analysed them in consultation with the UK Environment Agency. As well as minimising impacts to the aquatic environment, the team ensured the assessment considered potential future influences associated with further development, contaminated land, flooding and climate change.

Our work resulted in a thorough and robust WFD assessment of the likely ecological and hydrogeomorphological impacts of the preferred river design options on the site watercourses. Effective management of the assessment process by the ecology team ensured the water team were able to complete their inputs efficiently. Hence the planning application was submitted on time and with no extra cost to the client.

The ecology team consulted the UK Environment Agency to understand their requirements for the WFD Assessment and to obtain their view on the various design options. This helped streamline planning by ensuring the correct WFD assessment method was undertaken.