

UPPER MILL & HORSE POND

Land & Water were engaged at pre-tender stage to undertake Early Contractor Involvement (ECI), investigations, and design support to understand the loss of water through the eastern banks of Upper Mill Pond in the grounds of Bourne Hall Park, Ewell. We were then successful at open tender stage and contracted to deliver the repair and improvement works under a design and build contract.

Silt sampling and ground investigations were carried out to inform the final design. Before works could begin Land & Water liaised with Sutton and East Surrey Water and the Environment Agency to close off water feeds to the pond and ensure all necessary permits and agreements were in place.

Works began on site at Horse Pond in July 2022 removing the perimeter vegetation to allow full access to the pond in accordance with our approved Construction Phase Plan and method statements, arising materials were chipped and stacked to form hibernacula where possible and tree protection established. Temporary fencing and signage were established to protect the works site from public access. A fish rescue was then performed, and silt curtain installed downstream to mitigate effect on the wildlife present in the pond. Construction of a holding cell lagoon was then installed to contain the material once removed.

A dewatering system was established, and water levels reduced to allow access to the pond bed. An 8t excavator pushed material across the bed to allow a DISAB vacuum tanker to recover it and then transfer it to a constructed cell for holding. Approx. 100m³ of material was removed from the pond. In addition to silt removal the existing weir was removed.

To repair the eastern banks 50 linear meters of sheet piles were installed creating a cut off wall to prevent further leakage. A timber capping beam was fixed to the pile line to provide aesthetic finish including anti-slip strips for safety.

Land & Water returned in October 22 to re-grade the material in the holding cell to merge sympathetically into the surroundings.



Project Particulars

Client: Epsom & Ewell Borough Council
July - August 2022

PROJECT
VALUE:

£294,500