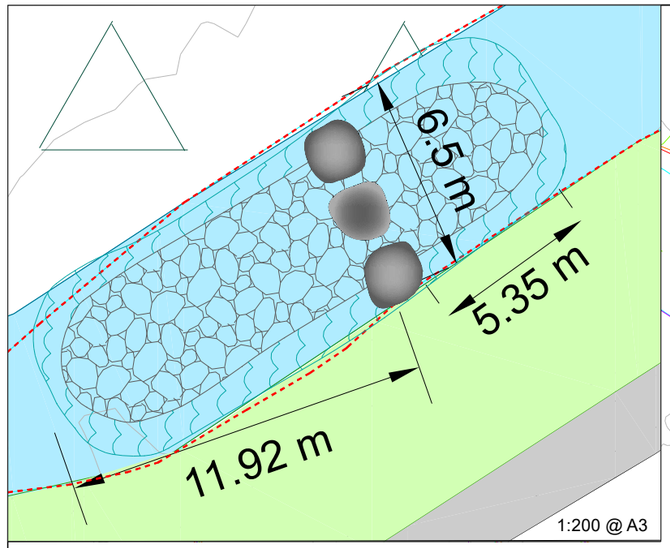


View of proposed sediment trap on the upstream end of the pond. The deeper profiled section of the channel is designed to reduce discharge velocity causing sediments to drop out of suspension, the larger stones also reduce discharge velocity over the deep pool, enhancing deposition.

Raised marginal wetland to be created using spoil and dredged sediment.

Brash fronted berm around the existing island margins to stabilise and reduce sediment input. Potential additional planting on island.

Spoil re-use to create additional island. Willow scrub planting to take place on the island to prevent expansion of Canada goose habitat.

Trash screen to be modified to reduce rate of material build up. No amendments proposed to the weir and outfall.

Re-profile the banks of the pond to create marginal shelf using spoil and re-vegetate to help reduce bank erosion.

Bat boxes to be added to existing trees, based on ecological recommendations.

Raised area for a marginal wetland, planted with reeds, located at the outfall of a surface water sewer.

Spoil re-use to create additional seating area on pond margins with picnic benches.

Additional area of pathway to allow for desilting of the marginal wetland.

Extended brash fronted berm feature to be planted with marginal wetland plants and act as a sediment filter as well as narrow the channel around this side of the pond, keeping water levels raised to preserve the integrity of the island.

CS4

CS3

CS2

CS1

Low level dead hedging to create a natural barrier, restricting public access. This will enable marginal habitat development as well as limiting access between pond and grassland for Canada geese.

Brick/ rubble hibernacula and log piles along the waterbody edges to provide hibernation opportunities and refuge for amphibians, reptiles, small mammals, and invertebrates.

Brash berm or willow spiling to provide bank erosion protection.

Dead hedge the island to reduce access by Canada geese. Small undercut gullies to be created to allow small waterfowl and potential water vole use.

All reprofiled areas to be seeded with suitable mixes for the rate of inundation.

Additional amenity features to be considered such as interpretation boards, benches, scrub planting, and additional paths.

Additional planting to be undertaken on the island to discourage Canada goose nesting and provide enhanced grey heron nesting conditions.

Low level dead hedging to create a natural barrier, restricting public access to the wetland habitat, as well as being a deterant for Canada geese.

Existing wet woodland proposed to be enhanced with additional willow planting.

Re-profile the banks to create marginal shelf using spoil and re-vegetate to help reduce bank erosion.

New path proposed to cross the stream.

100 m
10 m

NORTH
Indicative

Key:

- Water
- Existing Road / Track
- Existing Vegetation
- Existing Island
- Existing Sluice Gate
- Contours (1 m)
- Cross Sections Lines
- Proposed Wet Woodland
- Proposed Dead Hedge
- Proposed Picnic Benches / Seating
- Proposed Hibernaculum
- Proposed Benches
- Proposed Island / New Made Ground
- Proposed Willow Spiling / Berms
- Proposed Marginal Regrading
- Proposed Hardstanding Area
- Proposed Marginal Planting
- Proposed Large Wood
- Proposed In-channel Sediment Trap
- Proposed Addtional Pathways

Utilities: Type C: Desk study and site reconnaissance

- All Point Fibre
- BT Openreach
- Indigo Pipelines
- SGN - Low
- Pressure Mains SGN - Medium
- Pressure Mains South East Water
- SSEN

General Notes:

1. All dimensions shown in metres unless otherwise stated and levels in metres to ordnance datum (mAOD).
2. Utility search undertaken in June 2026, and the ecological notes taken from the 27th November 2025 for the design phase of the project.
3. Relevant consent to be sought before the construction phase.
4. Construction works to be undertaken by a competent contractor with experience installing river and habitat restoration works.
5. Designs are semi-indicative. The exact location of proposed features should be determined onsite by a suitably qualified geomorphologist.
6. FiveRivers Environmental Contracting take no responsibility for the detrimental placement of in-channel features without appropriate supervision from a qualified geomorphologist.
7. Existing in-channel/marginal vegetation should be maintained wherever possible.

Design Assumptions:

1. Design is based on the assumption that the Defra LiDAR data is accurate and fit for purpose.
2. Design assumes there is appropriate access for required machinery to conduct necessary works.
3. Assumes no protected species on site.
4. Design assumes there are no hidden hard structures within the banks.
5. Design assumes site won material is suitable for use in channel.
6. Design assumes there is no negative impact on flood risk.

NOT FOR CONSTRUCTION

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Ver.	Ver. Date	Status	Drawn	Check'd	Apprv'd
4	09/10/2026	FOR ISSUE	AH	ENJ	JE

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ISO 14001
ISO 45001

Client: ALTON Town Council

Project: 5080D - Kings Pond Phase 1

Title: Dredging Option Overview

Drawing number: 5R-5080D-101

Scale: 1:1500 @ A3