

Area 1 & 2
Constraints



Three options were presented at Public Participation Day No.2 for this area.

Option 1&2A:
Direct defence and conveyance improvements (including dredging)

Option 1&2B:
Direct defences

Option 1&2C:
Upstream storage and direct defences

Following a multi criteria analysis taking into account environmental, social, technical, and economic objectives, and feedback from the public and various stakeholders, **Option 1&2B: Direct defences** has been selected as the Emerging Preferred Option. This option is considered the preferred option for the following reasons:

Technical outcomes

- ✓ Most operationally robust option, minimises operation and maintenance requirements
- ✓ Adaptable to climate change, no impediment to future interventions to address future flood risk
- ✓ Similar level of interaction with existing infrastructure - manageable through design

Social outcomes

- ✓ Most proportional to the impacted community
- ✓ Least impact on those landowners/stakeholders who are not at risk from flooding
- ✓ Facilitates other CCC infrastructure projects including the proposed Linear Park and the Pedestrian and Cycle Route from Ballinacurra to Midleton Train Station



Environmental outcomes

- ✓ Least impact on Water Framework Directive conservation objectives, as regular dredging or channel realignment is not proposed
- ✓ Least or similar impact on Habitats and Birds Directive conservation objectives, minimises in-stream works required
- ✓ Least impact on fisheries resource within the catchment, minimises in-stream works required
- ✓ Least impact on landscape character and visual amenity within the river corridor
- ✓ Similar impact on features of cultural heritage importance, including architectural and archaeological features of value, and option provides increased level of protection from flooding
- ✓ Generation of waste, as regular dredging is not proposed

Constraints Map

1.

St. Joseph's Cemetery
2.

Carrigogna Bridge
3.

Otter activity was recorded along the Glenathonacash stream
4.

Numerous bat sightings were recorded in these areas during a Dusk Bat Survey
5.

Two bat species were recorded between Tir Cluain and Water Rock Golf Club
6.

The clean and well sorted mix of gravel and cobbles in this area were identified as being ideal spawning habitat for Atlantic salmon and sea trout. Brown trout and Atlantic salmon were identified here.
7.

Moore's Bridge
8.

Evidence of otter activity
9.

Significant otter activity was identified in these locations along the Owenacurra River
10.

Lamprey, Brown trout and Atlantic salmon were identified here, with the deep fine sediment producing nursery opportunities
11.

Three bat species were recorded along the banks of the Owenacurra River between Millbrook and Willowbank
12.

Three bat species were recorded along the banks of the Owenacurra River south of Millbrook
13.

This stretch of the river was found to have an excellent Salmonid habitat value, with suitable nursery and holding sites
14.

Otter activity was noted south of Millbrook and beneath Cork Road Bridge
15.

Cork Road Bridge