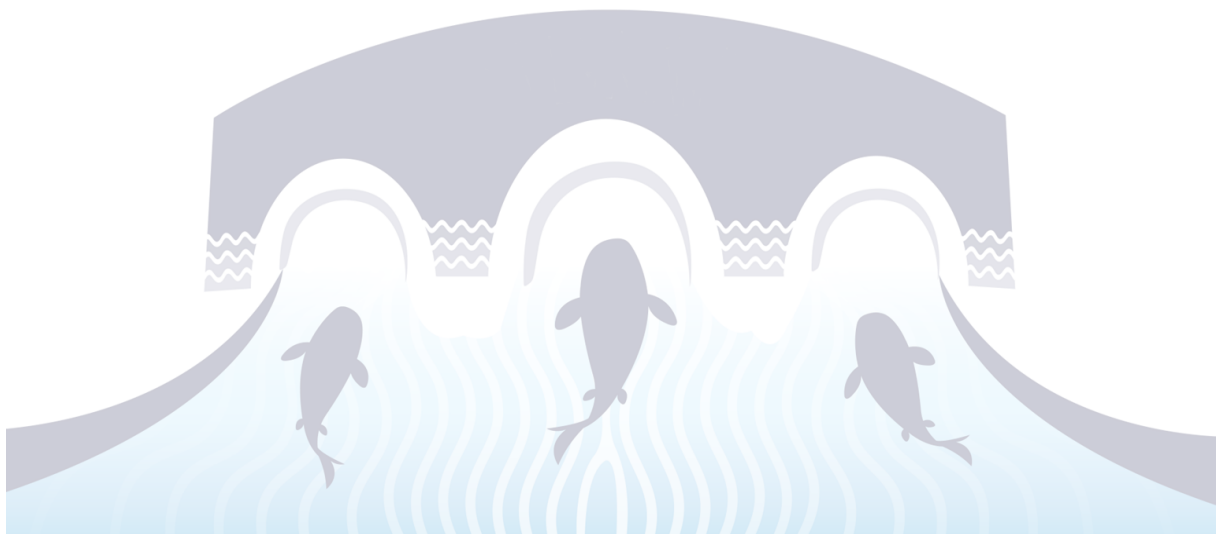




National Barrier Mitigation Programme

Topographic and Bathymetric Survey Appendix G

Lot 7 – Tipperary Offaly



Document Verification Sheet

Project Title: Topographical and Bathymetric Survey Appendix G

Document Title: Lot 7 – Tipperary Offaly

File Reference: NBMP_08.8.01

Date: 14/08/2026

Issue No.: I01

Revision	Date	Description	For Tender		
D01	14/08/2026	Prepared by		Checked by	Approved by
		D O'Shaughnessy		M Murphy	M Murphy
Revision	Date	Description			
I01	14/08/2026	Prepared by		Checked by	Approved by
		D O'Shaughnessy		M Murphy	M Murphy
Revision	Date	Description			
		Prepared by		Checked by	Approved by
Revision	Date	Description			
		Prepared by		Checked by	Approved by
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1 Project Description

The full commission of this tender includes 4 Barrier Mitigation Projects that require Topographical and Bathymetric Surveys as detailed in Table 1 below. Further detail on each project within the bundle is provided in Section 1.1 to 1.4.

Site Number	Project Code	Project Barrier	County	U28 ID	Coordinates
1	0812022	Coole Culvert 1	Offaly	14_1824_70	53.316252N 7.228729W
2	0813013	Coole Culvert 2	Offaly	14_1824_38	53.319819N 7.232397W
3	0832013	Bunow Weir	Tipperary	25_892_185	52.951954N 7.799961W
4	0832014	Cadamstown Upper Gravel Trap	Offaly	25_572_4	53.119972N 7.646808W

Table 1 Barrier Mitigation Projects

1.1 Coole Culvert 1

Coole Culvert 1 is a piped culvert crossing in a Bord Na Mona owned bog in Daingean, Co. Offaly. The existing structure was surveyed for passability by local environmental staff in IFI and was deemed to be a partial barrier to fish. A large corrugated type culvert has been placed to convey the river water and facilitate vehicular traffic crossing the river channel.

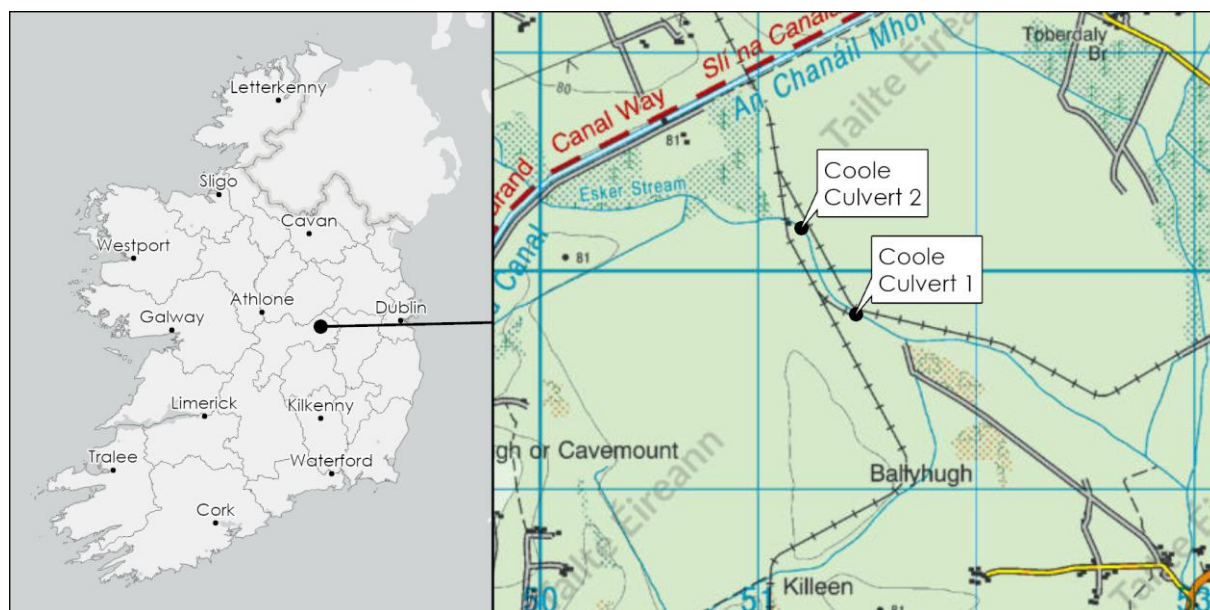


Figure 1 Location Map of Coole Culvert 1



Plate 1 Coole Culvert 1- Downstream



Plate 2 Coole Culvert 1– Upstream

1.2 Coole Culvert 2

Coole Culvert 1 is a piped culvert crossing in a Bord Na Mona owned bog in Daingean, Co. Offaly. The existing structure was surveyed for passability by local environmental staff in IFI

and was deemed to be a partial barrier to fish. A series of stacked concrete pipes have been placed to convey the river water and facilitate vehicular traffic crossing the river channel. However, this type of culvert arrangement is not suitable for fish passage.

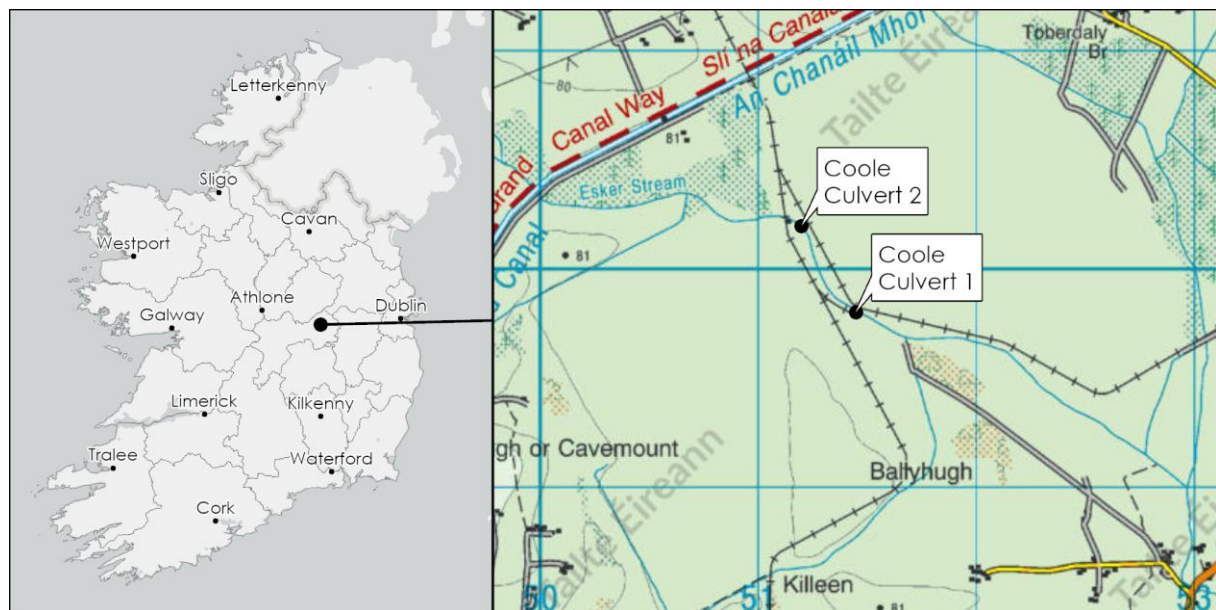


Figure 2 Location Map of Coole Culvert 2



Plate 3 Coole Culvert 2 - Upstream



Plate 4 Coole Culvert 2 – Downstream

1.3 Bunow Weir

The existing barrier is an historic weir on the Bunow River at Roscrea, County Tipperary. It was associated with a flour mill on the 1st Edition 6" ordnance survey map. The Bunow River is ca. 7m wide at the weir. The hydraulic head is approximately 1m. The weir is a swim barrier to fish migrating upstream. It is likely that only larger fish are able to pass it and only in high flood thus restricting movement and limited habitat availability in the system. In addition to the height of the weir, there doesn't appear to be a plunge pool below the weir which will make it even more difficult for fish to pass.

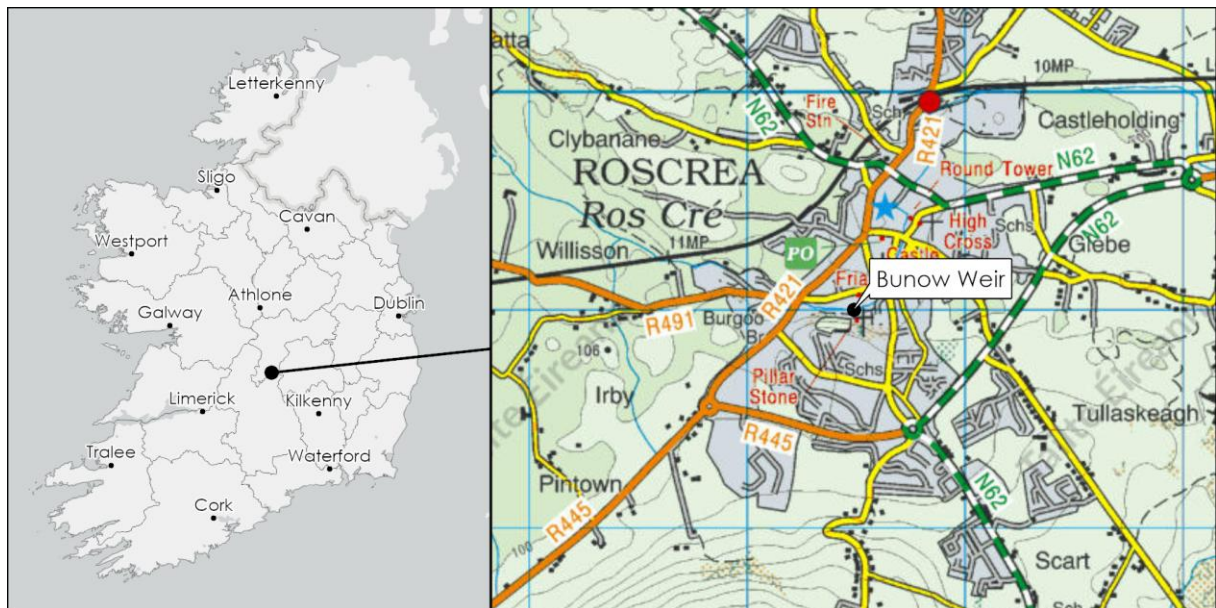


Figure 3 Location Map of Bunow Weir



Plate 5 Bunow Weir - Upstream



Plate 6 Bunow Weir – Downstream

1.4 Cadamstown Upper Gravel Trap

The Cadamstown Upper Gravel Trap is located on Silver River in Co. Offaly. The existing structure is a vertical weir situated ~1.5km upstream of Cadamstown. It was constructed upstream of the Brosna drainage scheme to intercept sand and gravels being transported from the Slieve Bloom Mountains. It is a straight drop weir with a head height of 3.14m. The main body of the weir was constructed of stone and cast concrete, and there is a sluice gate just upstream of the structure. It appears to be built on a foundation of bedrock, indicated by the river being a gorge downstream of the structure. The structure has created a large impounded area and does not presently appear to be used as a gravel trap. It is unclear whether fish were ever able to pass this structure, however despite this, the structure acts as a complete barrier to sediment transport and an issue for hydromorphology.

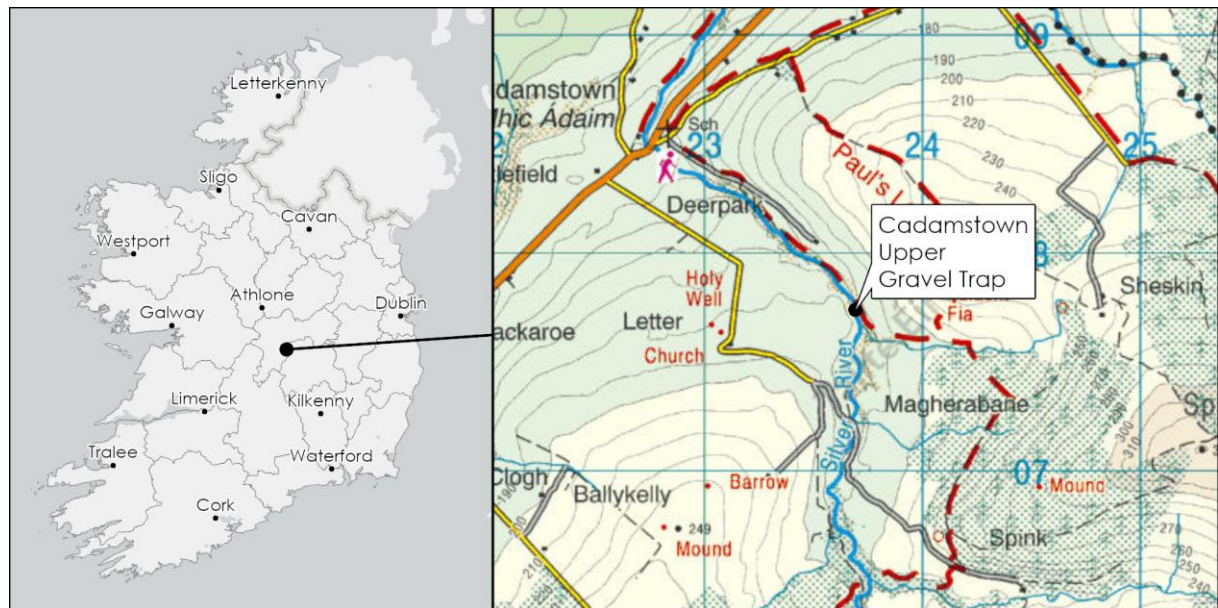


Figure 4 Location Map of Cadamstown Upper Gravel Trap



Plate 7 Cadamstown Upper Gravel Trap - Upstream



Plate 8 Cadamstown Upper Gravel Trap – Downstream