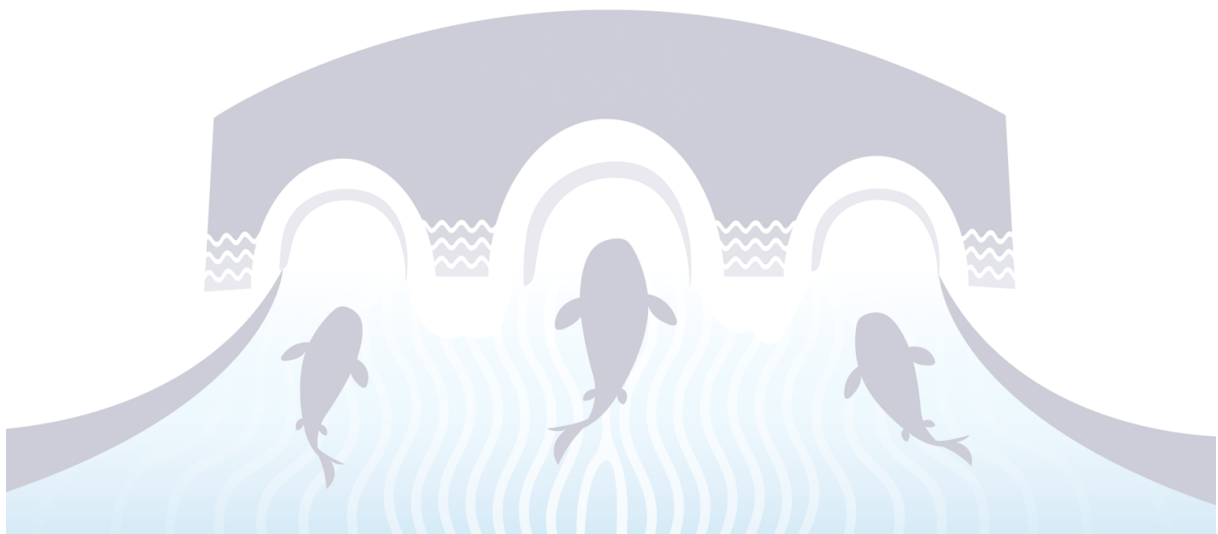




National Barrier Mitigation Programme

Topographic and Bathymetric Survey Appendix K

Lot 11 – Louth/Cavan



Document Verification Sheet

Project Title: Topographical and Bathymetric Survey Appendix K

Document Title: Lot 11 – Louth/Cavan

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
Revision	Date	Description			
		Prepared by		Checked by	Approved by
Revision	Date	Description			
		Prepared by		Checked by	Approved by
Revision	Date	Description			
		Prepared by		Checked by	Approved by
Revision	Date	Description			
		Prepared by		Checked by	Approved by

Contents

Topographic and Bathymetric Survey Appendix K.....	i
Lot 11 - Louth/Cavan	i
1 Project Description.....	4
1.1 Ballygassan Weir	5
1.2 Athclare Bridge	7
1.3 Athclare Bridge Weir	9
1.4 White River Mill Weir	11
1.5 Virginia College Weir	Error! Bookmark not defined.

List of Tables and Figures

Table 1 Barrier Mitigation Projects.....	4
Figure 1 Location Map of Ballygassan Weir	5
Figure 2 Location Map of Athclare Bridge	7
Figure 3 Location Map of Athclare Bridge Weir	9
Figure 4 Location Map of White River Mill Weir.....	11
Figure 5 Location Map of Virginia College Weir.....	16

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	0894001	Ballygassan Weir	Louth	06_1099_356	53.872102N 6.355184W
2	0892006	Athclare Bridge	Louth	06_802_249	53.818294N 6.392986W
3	0892007	Athclare Bridge Weir	Louth	06_802_257	53.818468N 6.392061W
4	0893007	White River Mill Weir	Louth	06_549_3	53.825757N 6.388056W
5	0893010	Virginia College Weir	Cavan	07_1035_140	53.830819N 7.083037W

Table 1 Barrier Mitigation Projects

1.1 Ballygassan Weir

Ballygassan weir is a vertical drop weir structure on the River Dee, in the townland of Adamstown, Co. Louth. The structure is located approximately 2.5km upstream from a designated Natura 2000 site Dundalk Bay SAC (000455) and Dundalk Bay SPA (004026). IFI completed a SNIFFER assessment in 2025 that identified this structure as an impassable barrier for all upstream migrating fish. The structure is the lowermost barrier identified in the River Dee, which presents an opportunity to open up important upstream habitats to migrating fish. Beyond blocking passage, the impoundments caused by barriers can elevate water temperatures, adversely affecting cold-water species such as salmonids. Additionally, the structure impedes sediment and nutrient transport, reducing the availability of gravels and fine sediments essential for providing habitat functions for fish such as salmonids and lamprey, and other aquatic organisms and plants throughout their life cycles.



Figure 1 Location Map of Ballygassan Weir



Plate 1 Ballygassan Weir - Downstream



Plate 2 Ballygassan Weir – Upstream

1.2 Athclare Bridge

Athclare Bridge apron is located on the White River, in Athclare, County Louth. This structure is a bridge /box culvert on the White River that is on R132 south of Dunleer. The bridge apron is elevated from the river bed at the downstream face of the bridge/box culvert. There is a 45 to 60 degree slope up to the bridge apron and vertical height of approx. 1.4m. IFI completed a SNIFFER assessment in 2014 has identified this structure as an impassable barrier for Shad, Pike and Cyprinids fish species. The structure is 100 meters upstream of another barrier (Athclare Bridge Weir) and approximately 1.7km upstream of the Drumin/Connor's Mill Weir on the White River. Beyond blocking passage, the impoundments caused by barriers can elevate water temperatures, adversely affecting cold-water species such as salmonids. Additionally, the structure impedes sediment and nutrient transport, reducing the availability of gravels and fine sediments essential for providing habitat functions for fish such as salmonids and lamprey, and other aquatic organisms and plants throughout their life cycles.

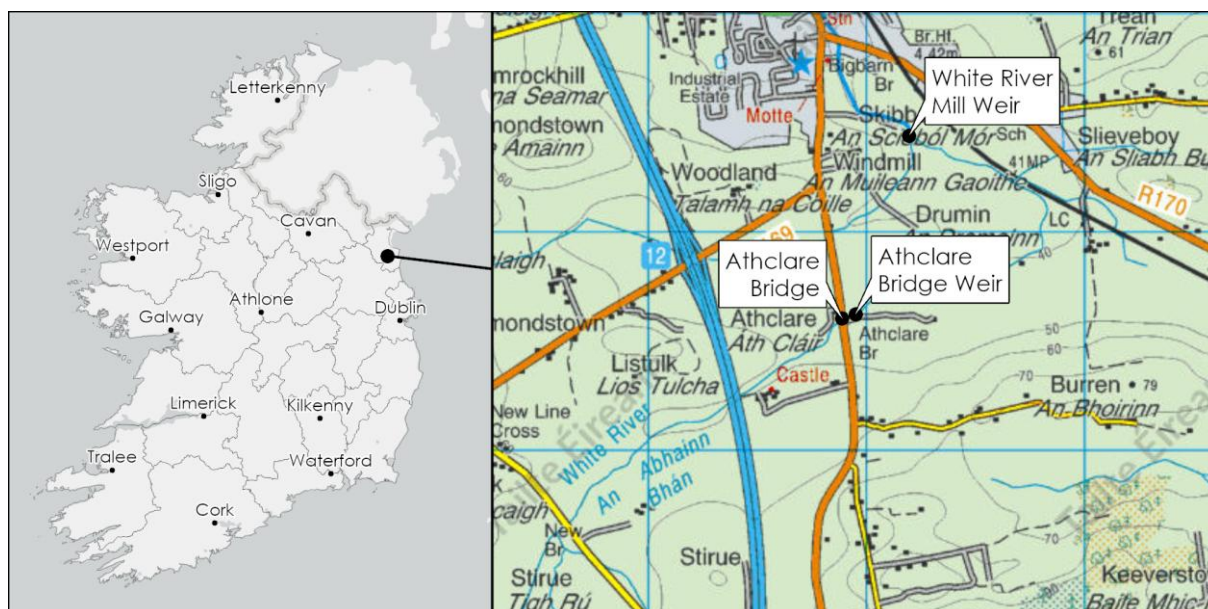


Figure 2 Location Map of Athclare Bridge



Plate 3 Athclare Bridge - Upstream



Plate 4 Athclare Bridge – Downstream

1.3 Athclare Bridge Weir

Athclare Bridge Weir is located on the White River, in Athclare, County Louth. This structure is a double jump vertical weir. IFI completed a SNIFFER report in 2014 that identified this structure as an impassable barrier for all fish at low flows. The structure is 100 meters downstream of another barrier (Athclare Bridge) and approximately 1.7km upstream of the Drumin/Connor's Mill Weir on the White River. Beyond blocking passage, the impoundments caused by barriers can elevate water temperatures, adversely affecting cold-water species such as salmonids. Additionally, the structure impedes sediment and nutrient transport, reducing the availability of gravels and fine sediments essential for providing habitat functions for fish such as salmonids and lamprey, and other aquatic organisms and plants throughout their life cycles.

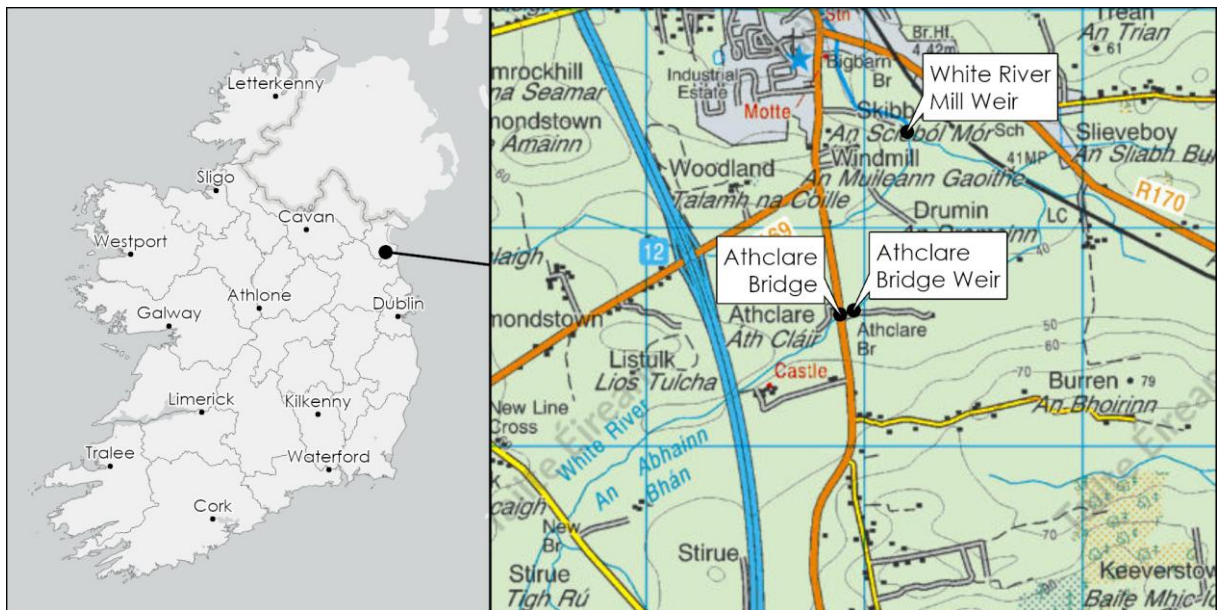


Figure 3 Location Map of Athclare Bridge Weir



Plate 5 Athclare Bridge Weir - Upstream



Plate 6 Athclare Bridge Weir – Downstream

1.4 White River Mill Weir

White River Mill Weir is located on the River White in Co. Louth. The existing structure will need some modifications, along with work to the ground and soil around it to facilitate the migration of fish species.

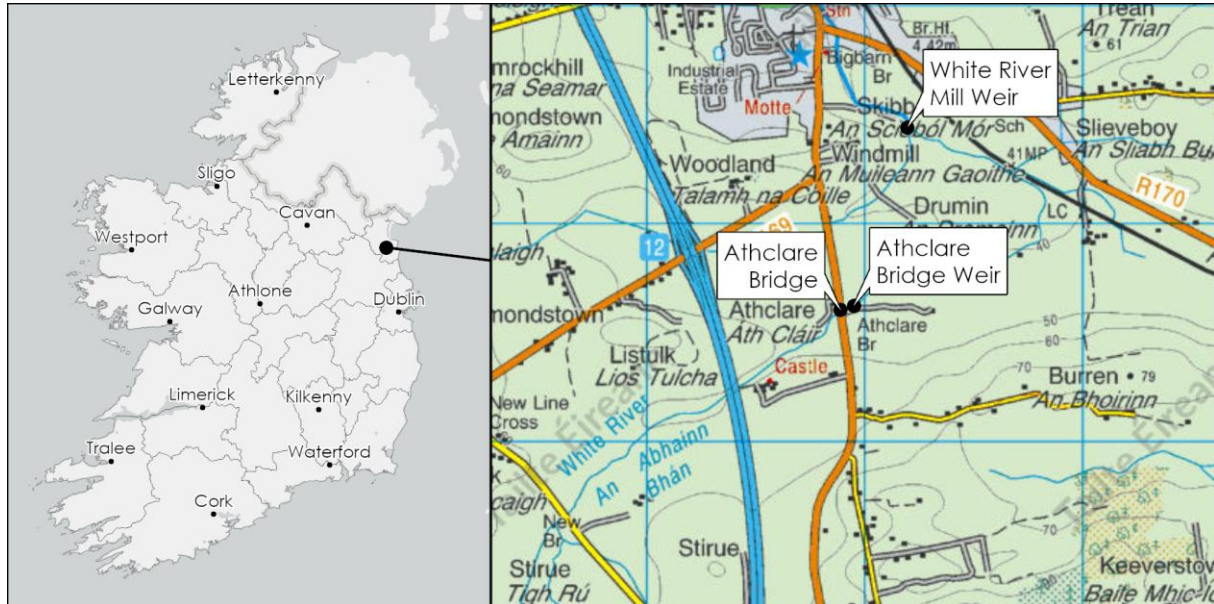


Figure 4 Location Map of White River Mill Weir

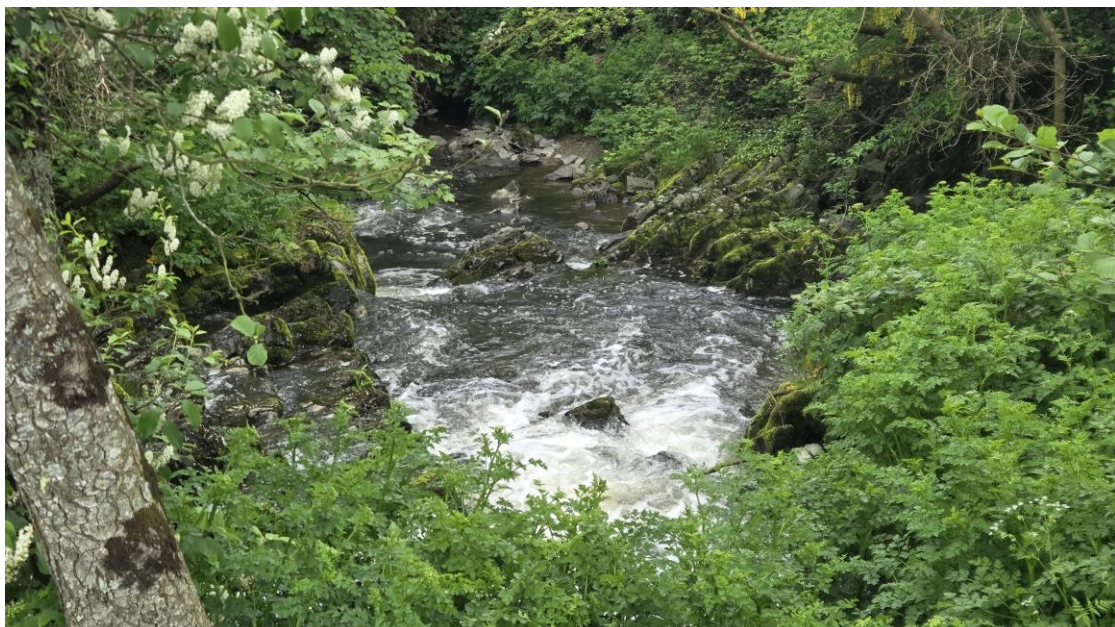


Plate 7 White River Mill Weir - Upstream



Plate 8 White River Mill Weir – Downstream