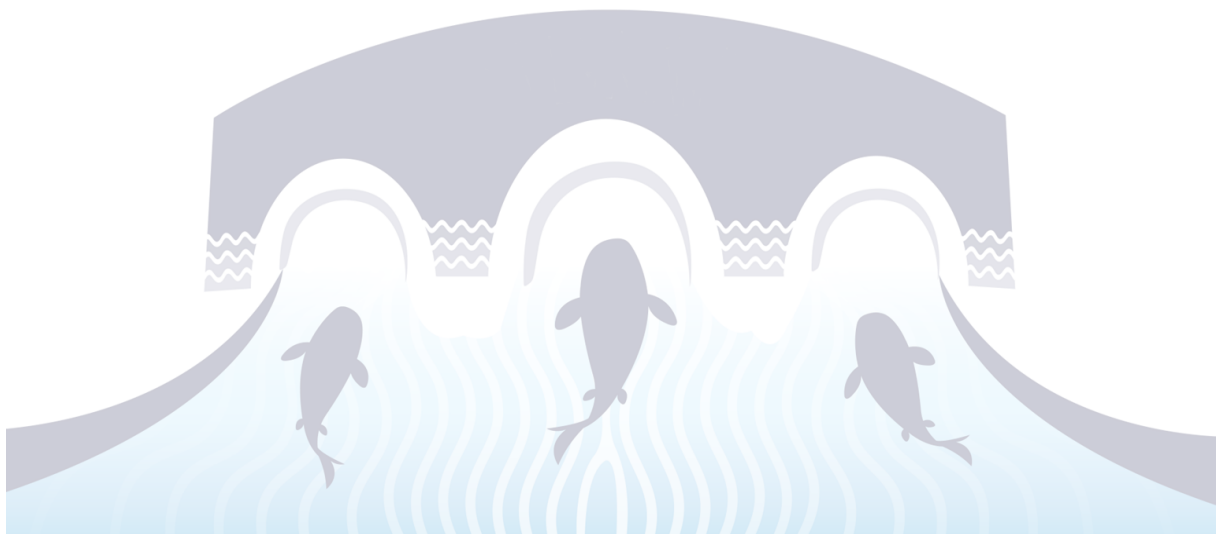




National Barrier Mitigation Programme

Topographic and Bathymetric Survey Appendix B

Lot 2 – Mayo/Sligo



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Contents

Topographic and Bathymetric Survey Appendix B	i
Lot 2 - Mayo/Sligo	i
1 Project Description	4
1.1 Brusna Weir	5
1.2 Feenune Bridge	7
1.3 Carrowtober Culvert	9
1.4 Crossmolina Ford	11
1.5 Kileen Bridge	13
1.6 Curry Weir	15

List of Tables and Figures

Table 1 Barrier Mitigation Projects.....	4
Figure 1 Location Map of Brusna Weir	5
Figure 2 Location Map of Feenune Bridge	7
Figure 3 Location Map of Carrowntober Culvert.....	9
Figure 4 Location Map of Crossmolina Ford.....	11
Figure 5 Location Map of Kileen Bridge.....	13

1 Project Description

The full commission of this tender includes 5 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 1.10.

Site Number	Project Code	Project Barrier	County	U28 ID	Coordinates
1	0853003	Brusna Weir	Mayo	34_3986_63	54.116556N 9.135589W
2	0842009	Feenune Brudge	Mayo	32_2850_130	53.715181N 9.872193W
3	0852012	Carrowntober Culvert	Mayo	34_2426_227	53.967308N 8.715158W
4	0853004	Crossmolina Ford	Mayo	34_449_15	54.086495N 9.343481W
5	0842008	Kileen Bridge	Mayo	32_2756_36	53.712889N 9.880025W
6	0853005	Curry Weir	Sligo	34_3783_123	54.001112N 8.771476W

Table 1 Barrier Mitigation Projects

1.1 Brusna Weir

Brusna Weir is located on the River Brusna in Ballina, Co. Mayo. The existing structure will need some modifications, along with work to the ground and soil around it to facilitate the migration of fish species. The barrier is located in the River Moy SAC (002298).

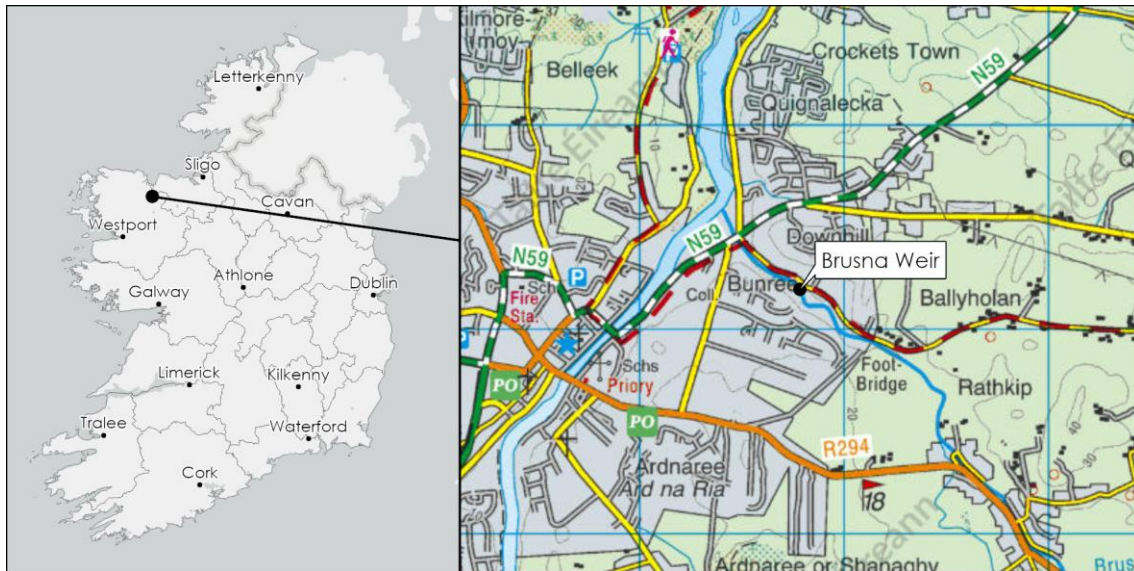


Figure 1 Location Map of Brusna Weir



Plate 1 Brusna Weir - Downstream



Plate 2 Brusna Weir – Upstream

1.2 Feenune Bridge

The Feenune Bridge is located in Killeen, Co. Mayo, located on the Feenune River, a tributary of the Bunleemshough River. IFI has identified the Feenune Bridge Apron as an Impassable barrier to fish passage. The barrier consists of a concrete bridge apron (3.25 m length), spanning the width of the channel (2.30 m width). The bridge apron has a >500 mm drop to the water below. An I-BAST assessment confirmed that the concrete bridge apron is impassable for several key species including: Salmon (adult), shad, sea lamprey, river lamprey, brown trout, pike and cyprinids – Impassable, and for: Salmon (smolt), eel (elver) – High Risk, and for: eel (adult) – Moderate Risk. The stream (approx 1.3 km) downstream of the barrier supports a very important population of freshwater pearl mussel and salmon. By preventing salmonids from moving upstream, this barrier is likely to limit the potential extent of freshwater pearl mussel juvenile establishment.



Figure 2 Location Map of Feenune Bridge





Plate 3 Feenune Bridge – Upstream



Plate 4 Feenune Bridge – Downstream

1.3 Carrowntober Culvert

The Carrowntober Culvert is located in Carrowntober, Carracastle, Co. Mayo on the Owengarve River, SAC: 002298 River Moy SAC. IFI has identified the Carrowntober Culvert as a High-Risk Barrier to fish passage. The barrier consists of two precast concrete culvert pipes, set within a masonry bridge. A SNIFFER assessment confirmed that the culvert (2.8m width, 7.2m length, 1.05m drop height) is impassable for several key species, including: Salmon (adult & smolt), Eel elver, shad, sea lamprey, river lamprey, brown trout, pike, cyprinids – Impassable and for: Eel adult – High risk. █

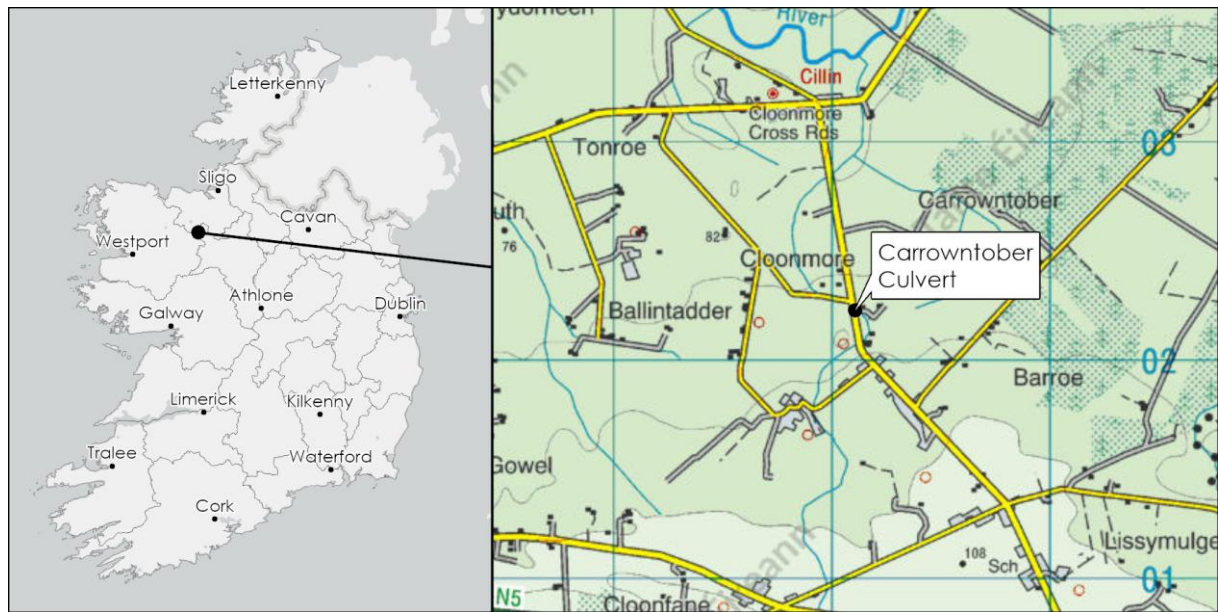


Figure 3 Location Map of Carrowntober Culvert



Plate 5 Carrowntober Culvert - Upstream



Plate 6 Carrowntober Culvert – Downstream

1.4 Crossmolina Ford

The Crossmolina Ford is located in Ballycarroon, Crossmolina, Co. Mayo on the Deel River, SAC: 002298 River Moy SAC. IFI has identified the Crossmolina Ford as a High-Risk Barrier to fish passage. The barrier consists of a masonry and concrete ford that is built on the river bed. There are 3 no. concrete culvert pipes built into the middle section of the ford, that are visible during low flow conditions. A SNIFFER assessment confirmed that the ford (27.0 m width, 4.0 m length, depth 0.5 m) is impassable for several key species, including: eel elver, shad, sea lamprey, river lamprey and for: Salmon (adult), brown trout – Low risk, and for: Salmon (smolt) – High risk.

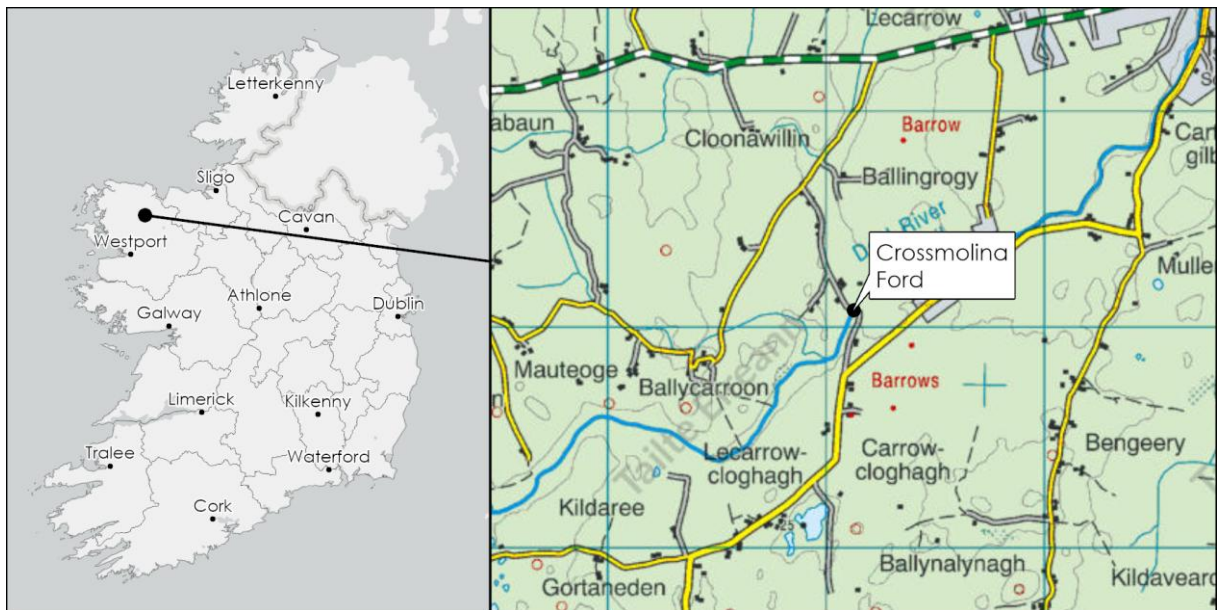


Figure 4 Location Map of Crossmolina Ford



Plate 7 Crossmolina Ford - Upstream



Plate 8 Crossmolina Ford – Downstream

1.5 Kileen Bridge

Kileen Bridge is located on the River Carrownisky, Co. Mayo. The existing weir is of masonry structure. The existing weir will need some modifications and repairs, along with work to the ground and soil around it to facilitate the migration of fish species.

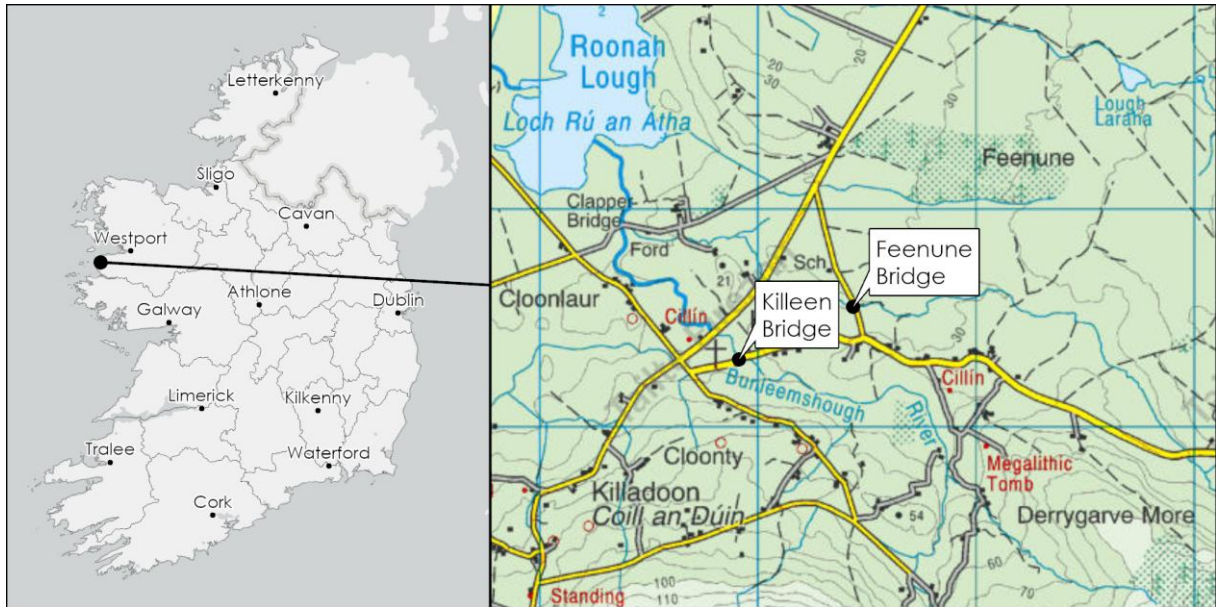


Figure 5 Location Map of Kileen Bridge

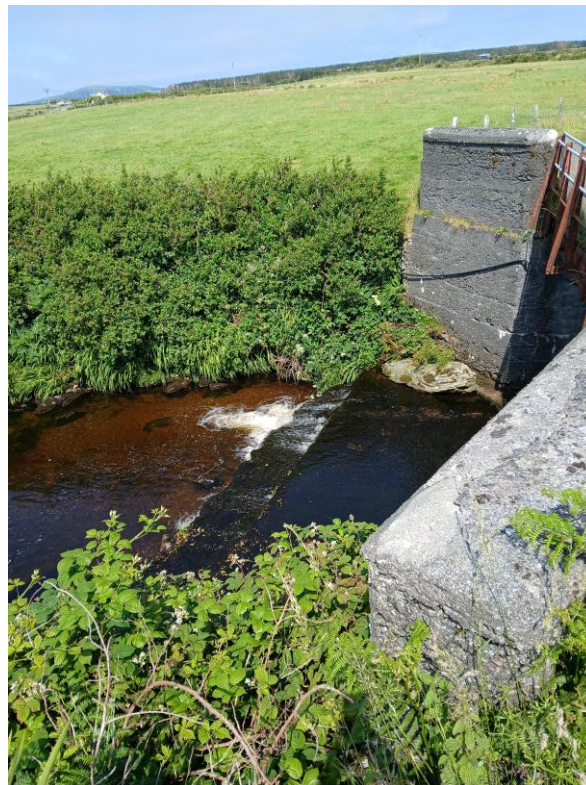


Plate 9 Kileen Bridge - Upstream

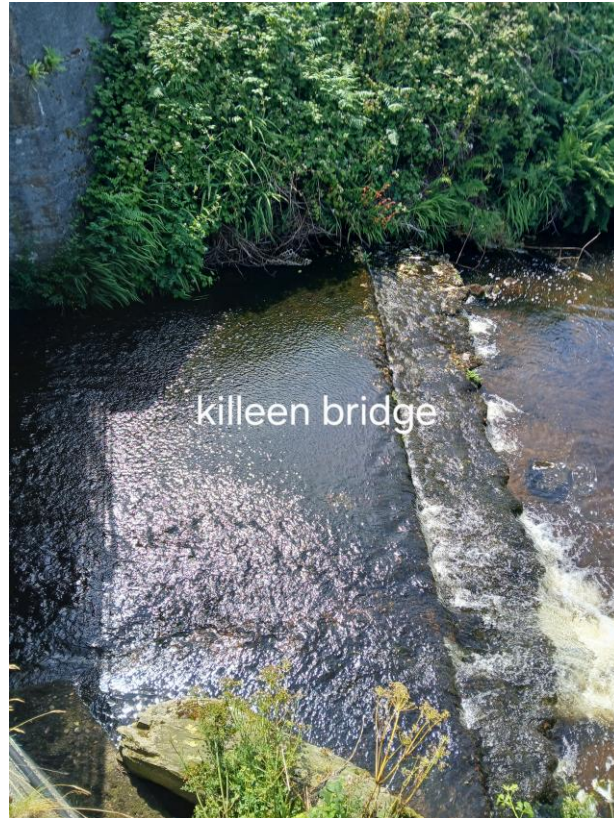


Plate 10 Killeen Bridge – Downstream

1.6 Curry Weir

Curry Weir is located in Curry, Co.Sligo on the Owengarve River, SAC: 002298 River Moy SAC. IFI has identified the Curry Weir as a High-Risk Barrier to fish passage. A SNIFFER assessment confirmed that the masonry and concrete weir (13.0 m width) is impassable for several key species, including: Salmon (smolt), shad, sea lamprey, river lamprey, pike, cyprinids – Impassable and for: Salmon (adult) and brown trout – High risk.

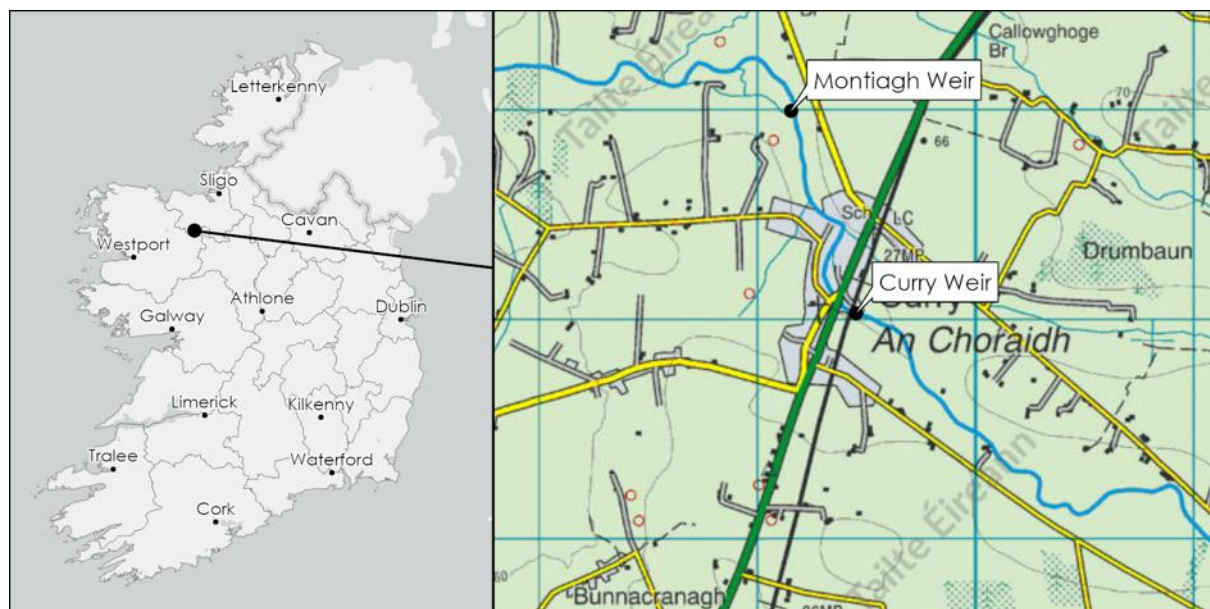


Figure 6 Location Map of Curry Weir



Plate 11 Curry Weir - Upstream



Plate 12 Curry Weir – Downstream