

Project: South Ashburton Intake Fish Screen
Client: Rangitata Diversion Race Management Ltd
Location: South Ashburton River

The Rangitata Diversion Race (RDR) has an intake at the South Ashburton River. As part of the consent process it was a requirement to screen out salmon smolt (fingerlings) from the RDR and return them to the South Ashburton River.

RILEY undertook the design and subsequent construction considerations relating to the fish screen. The final concept and location of the fish screen was determined through a collaborative process, with input from various key stakeholders, including: Rangitata Diversion Race Management Ltd; TrustPower Ltd; Fish & Game New Zealand (Fish & Game); and landowners.

The fish screen concept chosen for the site is an infiltration gallery. This type of fish screen has been developed and used successfully in a number of intakes in Canterbury and has been accepted by Fish & Game, and subsequently ECan, as a suitable concept for fish screening. Infiltration gallery intakes are also included in the NIWA guidelines for fish screens in Canterbury as a good practice design example.

The infiltration concept works in the following manner: a steel mesh pipe with specified apertures is covered with permeable rocks (70 to 200mm in size) that effectively screen the fish, allowing water to flow through.

The fish screen was commissioned in February 2009.

For further information on the services we can provide refer to our web site or please contact us.



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