

Project: Acton Irrigation Preliminary Design

Client: Barrhill Chertsey Irrigation Ltd

Location: Rakaia, Canterbury

The Acton canal is an existing stockwater race operated by Ashburton District Council (ADC). Located on the Rakaia River, upstream of the town of Rakaia, the canal flows for a length of approximately 24km. A planned upgrade of the canal capacity from 0.7 to 2.7m³/s would allow water for irrigation in addition to the existing stockwater supply.

RILEY was commissioned by Barrhill Chertsey Irrigation Ltd (BCIL) to undertake preliminary design for an upgrade of the canal to allow for irrigation to this area of the Canterbury plains.

The preliminary design included:

- ❖ an addition to the existing river intake configuration of a settling pond and fish screen;
- ❖ hydraulic design for upgrade of existing canal and canal crossings;
- ❖ storage and control gate requirements to enable operation of the scheme; and
- ❖ construction cost estimate for the upgrade.

As part of the upgrade, ADC requires the stockwater supply network to remain unchanged. The existing canal alignment is to be retained with canal crossing structures kept where possible.

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



10/09



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