

Development of a Monitoring Program for Erosion Control Works on the River Murray

Client: NSW, Department of Water & Energy
Location: River Murray between Lake Hume & Lake Mulwala



Erosion of the River Murray and its anabranches between Hume Dam and Yarrawonga Weir has been recorded as a matter of concern to landowners, river managers and councils since at least 1954 (Erskine *et al.* 1993). The Murray Darling Basin Commission empowers the NSW Department of Water & Energy through its River Murray Works unit to plan, implement and monitor erosion control and revegetation programs in this reach. An annual works program has been implemented in this reach since 2002, seeking to manage both anabranch development and channel change as a result of river regulation.

Water Technology was commissioned to develop a method for monitoring the effectiveness of different types of erosion control works implemented at work sites. Furthermore, the monitoring program was developed to assess how works have influenced site condition and also improve our understanding of how geomorphic processes may be influenced by the various erosion control methods. This knowledge can assist the implementation of the annual works program, by adaptively informing how the design of the various works types may be modified to improve outcomes.

Key Services Provided:

- Waterway rehabilitation and design
- Monitoring program design
- Fluvial geomorphic and process investigation

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