



# WATERWAY MANAGEMENT

## Core Services – What do we do?

Streamology has extensive experience with the contextual and operational aspects of water management, particularly the approaches and clarity around balancing water for the environment with consumptive use to maximise potential benefits to receiving waterways in regulated catchments.

Streamology brings expertise and understanding of geomorphic processes, hydrology, hydraulics and ecological principles to offer innovative waterway management solutions.

## Innovation in Waterway Management

Streamology has played an integral role in the development and deployment of the Urban Streamflow Impact Assessment methodology. This approach seeks to produce an environmental flow assessment for use in the evaluation of urban development at a catchment scale against nominated community, cultural and environmental values.

Streamology have pioneered an algorithmic approach to environmental flows assessment colloquially referred to as Flowcaster. Flowcaster enables waterway managers to produce shortfalls assessments for known or artificial hydrographs as a means to forecasting and hindcasting waterway needs for environmental flows. This algorithm has been successfully used on the Thomson River with excellent effect.



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**Capabilities:**

- Environmental flow studies and assessments
- Geomorphological Assessments
- Risk and opportunity analysis
- Identification of waterway values
- Monitoring and assessment of threats to waterway health values
- GIS spatial analysis
- Waterway management plans
- Development of guidelines and standards for land management
- Environmental investigations and management plans
- Waterway corridor width assessments
- Consultation planning and engagement processes
- Traditional Owner engagement and knowledge weaving

