



Landscape & Water Management



FLUVIAL GEOMORPHOLOGY & ENVIRONMENTAL HYDRAULICS

Our Services

Hydrobiology offers a range of services relating to fluvial geomorphology, environmental hydraulics and catchment hydrology. We have undertaken studies at a range of scales from small urban creeks and headwater streams to large tropical rivers.

Skills and Techniques

An appreciation of fluvial processes requires understanding the complex links between processes of erosion and sediment delivery, hydrology, hydraulics, sediment transport, soils and geology. Hydrobiology offers a range of services which include waterway stability and condition assessments, waterway rehabilitation and design, sediment balance and sediment transport studies, impact assessments and advanced monitoring techniques. Our clients include governments, regulators, resource industry clients and other providers of technical services.

Hydrobiology's key skills relate to:

- Flow and sediment processes relating to large tropical rivers
- The use of acoustic Doppler technology to monitor flow and sediment processes
- In situ bank stability assessments and geomorphic advice to assist in rehabilitation design
- Combining in situ assessments with aerial photograph interpretation to provide long-term assessments of condition
- Combining our geomorphology and hydrology skills with our in-house expertise in ecology, ecotoxicology, water quality, oceanography and geochemistry.

Applications

- Stability and condition assessments
- Impact assessments
- Water and sediment balances
- Erosion and sediment transport studies
- Monitoring of sediment loads
- Monitoring processes of floodplain deposition
- Environmental flows for channel maintenance
- Diversion design and natural channel design



BRISBANE

PO BOX 2050 Milton Qld 4064

Phone 61 7 3368 2133

PERTH

PO BOX 6917 East Perth WA 6892

Phone 61 8 9221 7555

info@hydrobiology.biz

www.hydrobiology.biz