



Tonkin & Taylor

Hydrology Specialists

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Water is one of our most precious resources, nothing can live without it. Knowledge of the amount of water, its distribution over space and time, and its effects on the earth's surface is what hydrology is about.

Tonkin & Taylor provide unsurpassed skill and innovation for clients in water resources management and hydrological investigations.

Expertise

Hydrology for infrastructure such as:

- irrigation and water supply
- hydropower schemes
- motorways
- landfills
- catchment flood management
- storage dams
- flood detention dams
- run-of-river intakes
- bridges and waterway crossings
- land development

Services of initial planning stage include:

- regional resource studies
- catchment yield analysis
- flow monitoring programmes
- assessment of effects
- flood and low flow frequency evaluations
- dam reservoir sizing

Subsequent project stages:

- catchment rainfall-runoff modelling
- design storm and flood estimation

- flood routing
- probable maximum flood
- dambreak hazard assessment
- flow regime simulations pre- and post-schemes

Other hydrological services:

- hydroenergy and enterprise modelling
- due diligence
- system optimisation
- land-use and climate change effects
- stochastic methods
- compliance auditing
- fluvial processes
- sedimentation studies
- policy and planning support

Peer review and expert evidence
Consent renewals
forensic hydrology

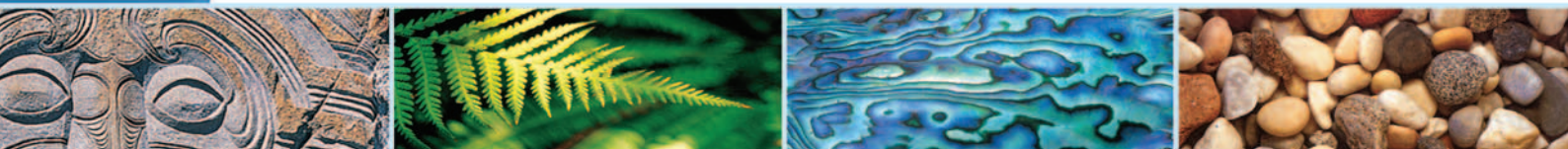
Experience

Hydrology has been an integral part of many of the projects within Tonkin & Taylor's portfolio, which spans 47 years. Recent projects with a strong hydrological focus include:

- the award-winning Integrated Source Management Model for real-time optimisation of Auckland's bulk water supply system
- mapping of water resources and evaluation of irrigation reliability for the Waitoki Catchment Water Allocation Regional Plan
- Sg Kinta flood mitigation project, Malaysia
- investigation of salmon stock losses in the Ohau Channel salmon farm.

For more information please contact David Leong.

www.tonkin.co.nz



ENVIRONMENTAL AND ENGINEERING CONSULTANTS