



Dam Engineering Specialists

Tonkin & Taylor provide a full range of services for clients in dam engineering, upgrading and safety management.

Expertise

- Conceptual and Feasibility Studies
 - Project definition and value engineering
 - Geotechnical investigations and assessments
 - Hydrological and flood hazard studies
 - Dam engineering
 - Cost estimating and project scheduling
 - Environmental assessment.
- Dam Design and Documentation
 - Detailed design and documentation
 - Costing and programming
 - Design review during construction
 - Commissioning
 - Operating, maintenance and surveillance manual
 - Emergency action planning.
- Consents
 - Compliance with environmental legislation
 - Assessment of environmental effects
 - Presentation of evidence
 - Consent renewals
 - Building consents.
- Construction Management
 - Senior management (Engineer to the Contract, Resident Engineer)
 - Site supervision
 - Cost and timeline programming.

- Dam Safety Management
 - Surveillance, monitoring and evaluations
 - Safety reviews
 - Risk analysis
 - Asset valuation
 - Instrumentation and calibration.
- Dam Rehabilitation and Upgrading.
- Peer Review and Expert Witness.

Experience

- 17 large dams designed, constructed and operating
- Several smaller, yet significant dams designed and built
- In excess of 50 dam safety reviews, dam rehabilitation or upgrade projects.

Recent projects include:

- The 50 m high Opuha Irrigation and Hydro dam project, South Canterbury
- The 10 m high Flat Bush flood detention dam, Auckland
- Karapiro dam enhancement works, Waikato
- The 22 m high Delta Irrigation Dam, Marlborough.

