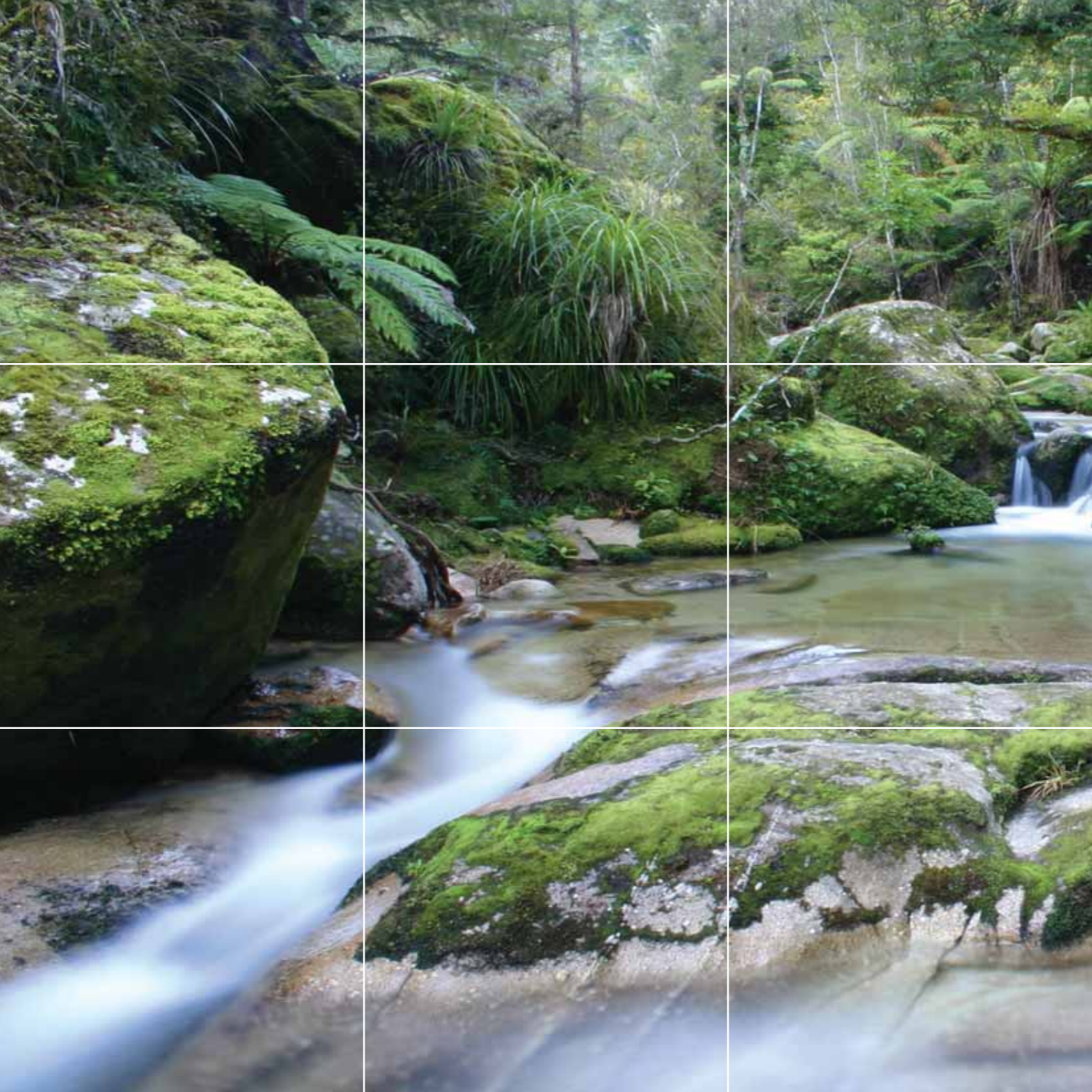




ENVIRONMENTAL AND ENGINEERING CONSULTANTS





Our Goal

To be the best to work for and the best to work with

Clients

We will work together with our clients providing professionalism, integrity and value for money.

Commitment

Dedication and achievement are fundamental to our success and will be recognised and rewarded.

Communication

We will communicate openly and effectively.

Environment

We will provide balanced advice, achieving environmentally responsible, sustainable solutions.

Expertise

We will strive to be market leaders, fostering innovation.

People

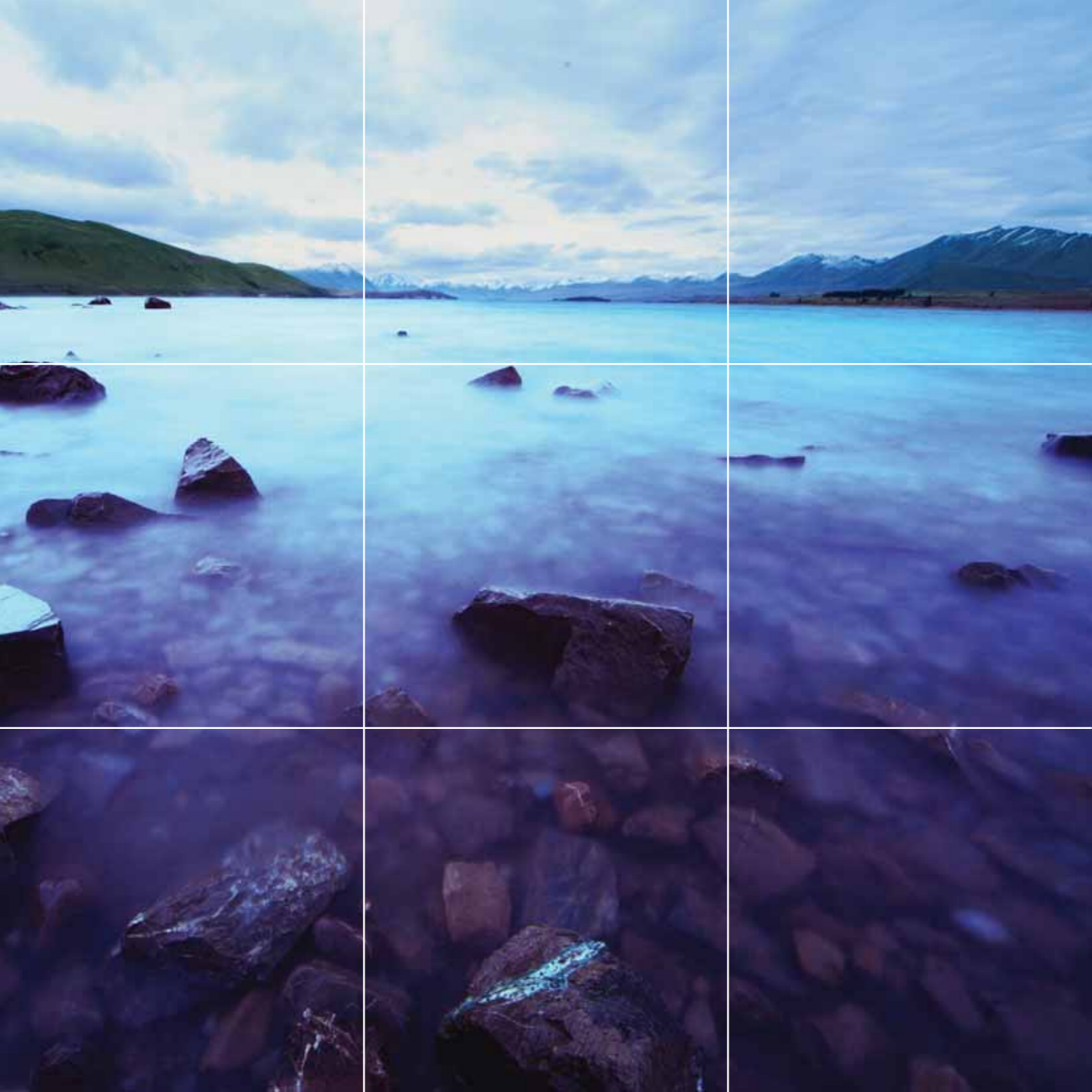
We will employ the best, providing opportunity, stimulation and development.

Quality

We will pursue excellence in everything we do.

Teamwork

Our team culture will be founded on trust, collegiality and respect.



Tonkin & Taylor:
A New Zealand, employee owned consultancy
celebrating 50 years in 2009

About Us

Tonkin & Taylor (T&T) is a New Zealand owned, specialist environmental and engineering consultancy providing innovative, cost effective and sustainable project solutions. We are committed to working in partnership with our clients and believe that effective teamwork leads to outstanding results.

T&T has a strong reputation for technical excellence in the following areas:

- Civil
- Environmental
- Geotechnical
- Water Resources

Our team of specialist engineers, scientists, planners and project managers, together with our track record on major projects, enables us to effectively respond to client needs.

We operate across a range of industry sectors throughout New Zealand, Australia, the Asia Pacific region, Africa and the Middle East. Our clients include central and local government, major international lending and donor agencies, commercial organisations, industry, developers, contractors, private individuals and consultants.

Specialist expertise and extensive experience
results in cost effective solutions

Civil Engineering Specialists

Our civil engineering capability has continued to expand in response to client needs for specialist services in the infrastructure development sector.

A key feature of the way we work is the effective management of a range of diverse project inputs, resulting in a very high level of team commitment.

Capabilities include:

- Construction contract administration
- Industrial and commercial development
- Land development
- Marine structures
- Project management
- Retaining walls and ground structures
- Highway/Roading design
- Solid waste management
- Stormwater management
- Structural engineering
- Tunnelling
- Wastewater



MacKays Crossing, Wellington



Community Park Upgrade, Marlborough



Material Recovery Recycling Facility, Auckland



Northern Gateway Motorway Project,
Auckland



Kate Valley Landfill, Canterbury



Seaside Park Contaminated Land Management, South Auckland



Manukau Harbour Crossing, Auckland



Three Mile Creek and Shoreline Protection, Waihi Beach



Oriental Bay Foreshore Enhancement, Wellington

We understand the natural environment:
air - water - soil

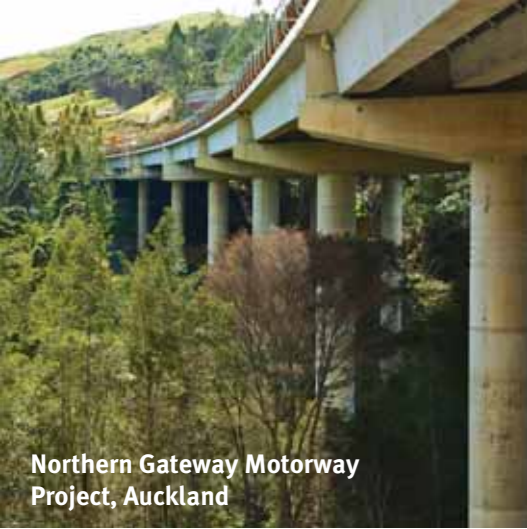
Environmental Specialists

Developing sustainable environmental and planning solutions requires innovation and leading edge expertise. Our team of specialist engineers, scientists and planners works effectively to deliver expert advice to clients.

T&T has an excellent record of securing consents for major projects and of delivering pragmatic, cost effective and sustainable project solutions.

Capabilities include:

- Air quality management
- Consent applications
- Contaminated land management
- Environmental due diligence
- Environmental labelling
- Environmental management and auditing
- Environmental regulation monitoring and alerts
- Greenhouse gas/Carbon management
- Groundwater investigations
- Hazardous substances management
- Laboratory and field testing services
- Natural resources engineering
- Resource management and statutory planning
- Restoration ecology
- Sustainable business services
- Terrestrial and aquatic ecology
- Water quality



We provide a full range of specialist geotechnical services

Geotechnical Engineering Specialists

Our internationally experienced team is widely regarded as a leader in the industry. The geotechnical services we provide are diverse, and our engineers and geologists are supported by a suite of advanced design software and the latest field testing equipment.

Capabilities include:

- Basement excavations, ground retention and groundwater control
- Dam foundations and water retaining structures
- Earthquake engineering and seismic hazard evaluation
- Earthworks design and specifications
- Foundation and pile design
- Geotechnical modelling
- Investigations and geological mapping
- Instrumentation and monitoring
- Laboratory and testing services
- Liquefaction assessment and design solutions
- Mining development
- Pavement testing, design and materials assessment
- Quarry development
- Settlement analysis and embankment design
- Slope stability assessment, stabilisation and slope retention
- Tunnelling





Opuha Dam, Canterbury



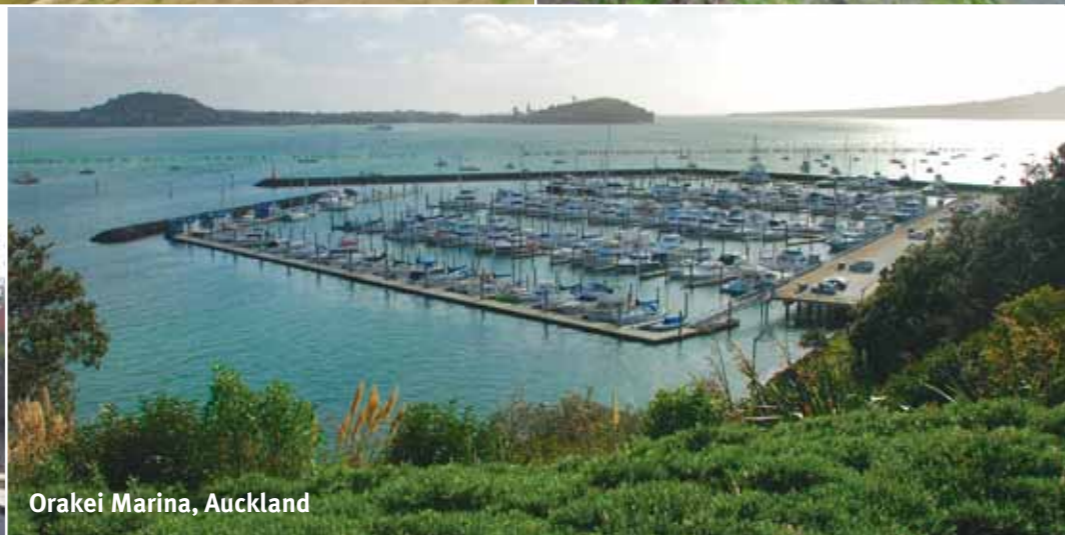
Lake Hood Recreation Lake, Canterbury



Mangakotukutuku Stream Diversion, Waikato



Coastal Hazard Assessment, West Coast



Orakei Marina, Auckland

Innovative strategies provide our clients with a competitive advantage

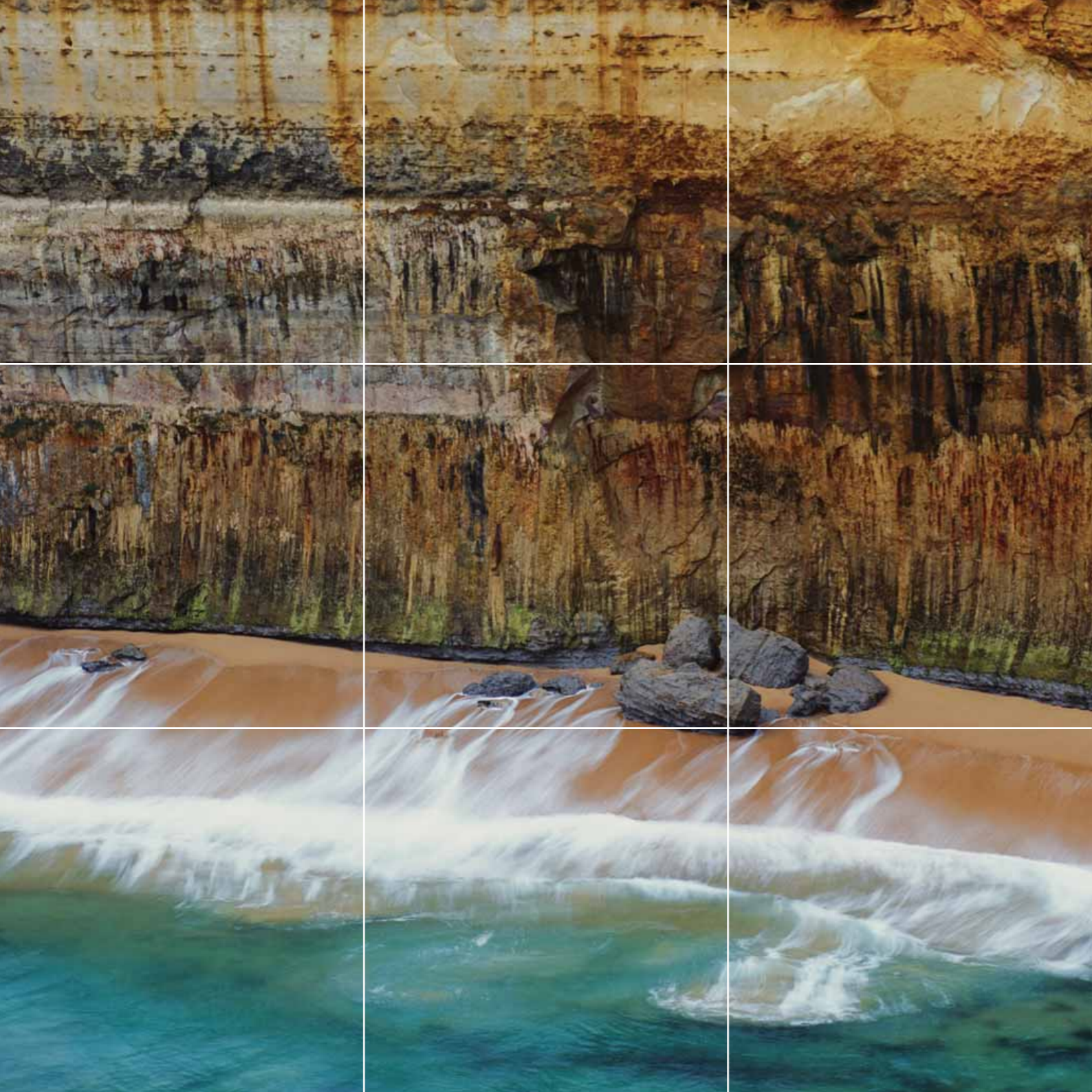
Water Resources Specialists

T&T has a long and distinguished track record in water resource planning and development. Our extensive project history includes scoping, prefeasibility and feasibility studies, detailed construction supervision, technical reviews, development studies and ongoing monitoring for a wide range of clients.

The highest level of technical expertise is available through our team of specialist engineers, scientists and project managers who work together to address individual project challenges.

Capabilities include:

- Catchment management
- Coastal processes
- Dams and water retaining structures
- Flood protection
- Hydraulic modelling
- Hydrological investigations
- Hydropower projects
- Irrigation
- Port and harbour developments
- Project and contract management
- River works
- Sedimentation studies
- Stormwater management
- Water quality



Chadwick T&T delivers a wide range of engineering and environmental services to clients

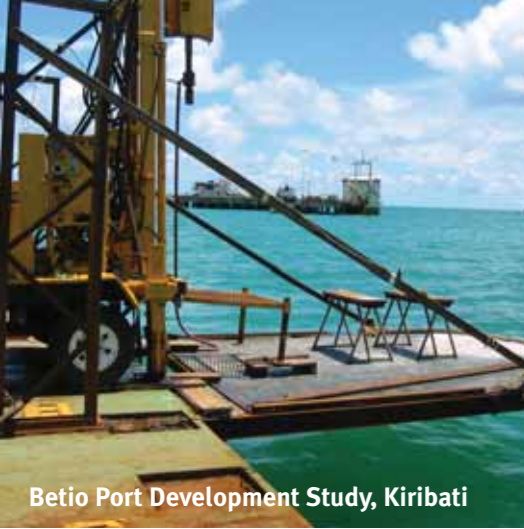
Australia

Chadwick T&T is a specialist environmental and engineering consultancy and testing company based in Melbourne. Chadwick T&T has offices located throughout Victoria and Western Australia. The team is committed to working with clients to ensure cost effective outcomes across the main sectors of the T&T Group business.

Capabilities include:

- Environmental assessments
- Environmental auditing
- Environmental engineering
- Geotechnical investigations
- Geotechnical engineering
- Groundwater investigations
- Solid waste management and landfill design
- Pavement investigations
- Pavement engineering
- Toxicology and risk assessment
- Drilling services for infrastructure and mining development
- Laboratory and field testing

www.chadwicktt.com.au



Developments in Pacific Island locations often have demanding logistical and project challenges

The Pacific

The extensive work undertaken by T&T in the Pacific region over the last 35 years provides us with a strong base. Our environmental and engineering design experience includes projects for private sector clients, aid organisations (World Bank, ADB, JICA, AusAID, NZAID) and government agencies.

Our team offers a full range of environmental and engineering capabilities including:

- **Scientific studies**
 - Environmental impact assessments
 - Marine baseline studies
 - Coastal process studies
 - Water resource planning
- **Investigations**
 - Aerial photography and remote sensing
 - Tropical site geology
 - Site investigations, sampling and testing
 - Groundwater and hydrogeological evaluation
 - Construction material evaluation
- **Engineering design**
 - Road design
 - Roving infrastructure
 - Resort development
 - Port, marina and airport development
 - Coastal protection works
 - Water supply headworks
 - Water treatment and distribution
 - Waste water treatment
 - Solid waste management
- **Construction management**
 - Project management
 - Contract management and construction supervision
 - Field laboratory and associated testing



Rewa Bridge, Fiji

Komarindi Hydropower Project, Solomon Islands



Nam Cheong Station, Hong Kong



Sibulan Hydropower Project, Philippines



Financial Services Resource Centre for Bank Negara, Kuala Lumpur, Malaysia



Bukit Tagar Landfill, Malaysia



Ambuklao Hydropower Project, Philippines

South East Asia, Africa and the Middle East

T&T works extensively throughout South East Asia, Africa and the Middle East on a diverse range of projects. In addition to offices in Malaysia and the Philippines, presence in other countries is provided utilising local resources and affiliated project offices.

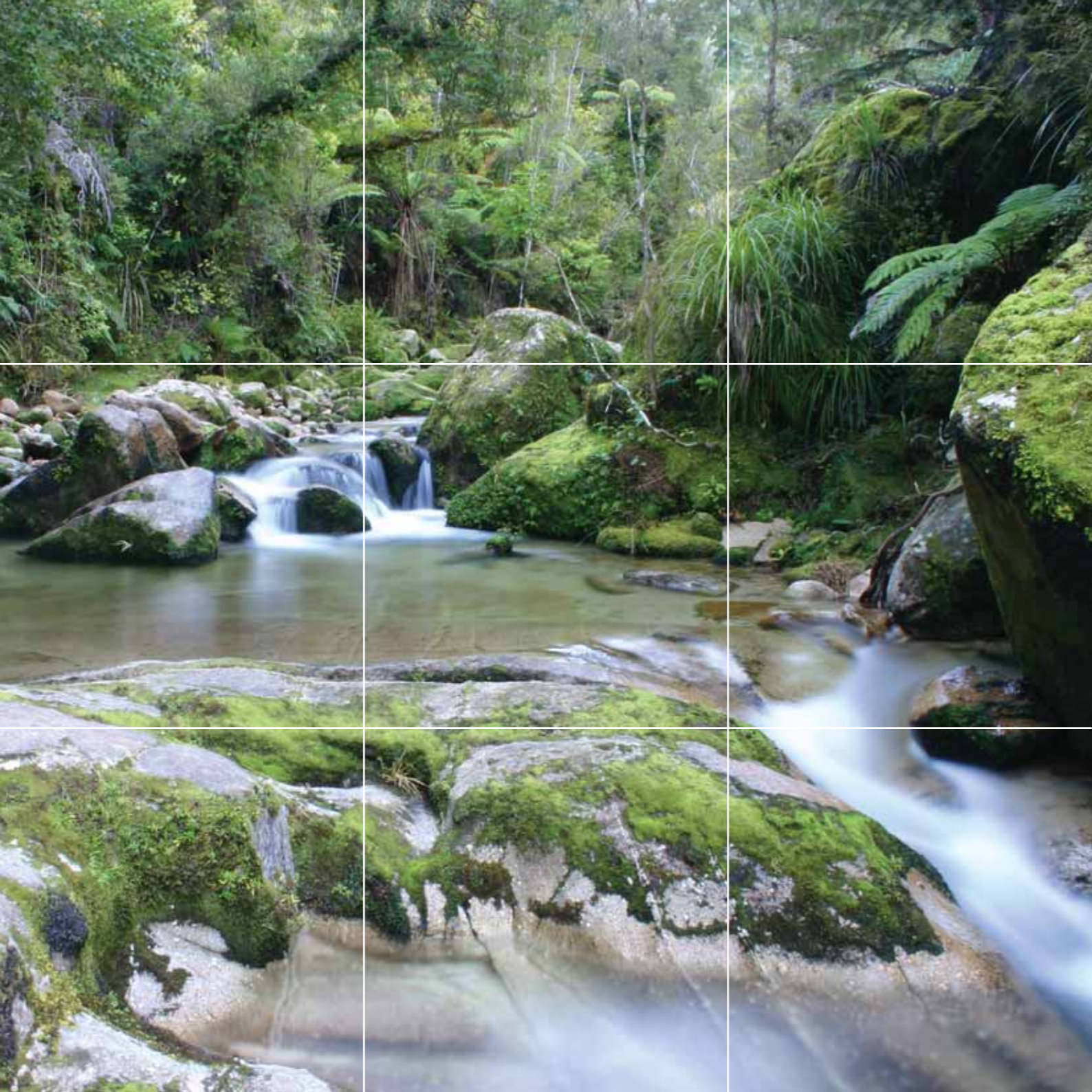
We aim to develop projects that are sustainable, that incorporate appropriate technology, are economically viable, practical to implement and that can be operated and maintained with local resources.

Capabilities include:

- Airports and harbour works
- Catchment management planning
- Coastal engineering
- Dam engineering
- Environmental auditing and site assessments
- Environmental impact studies
- Geological and geotechnical investigations
- Highways, roading and bridges
- Hydro, thermal and geothermal power projects
- Infrastructure condition surveys
- Infrastructure and land development
- Mining developments and rehabilitation
- Petrochemical and industrial developments
- Port facilities
- Project management
- Railways
- Rehabilitation engineering
- Solid and liquid waste disposal
- Structural engineering
- Training and technology transfer
- Water supply and irrigation

Malaysia: T&T Konsult - www.ttkonsult.com.my

Philippines: EDCOP - www.edcop.ph



We are committed to working with clients to provide sustainable and responsible project outcomes

Sustainable Solutions

One of our core strengths is the ability to incorporate sustainability principles into every project we undertake. We do this by looking at the environmental context of each project and then developing specific strategies that deliver effective and sustainable solutions.

Some of our more recent initiatives include:

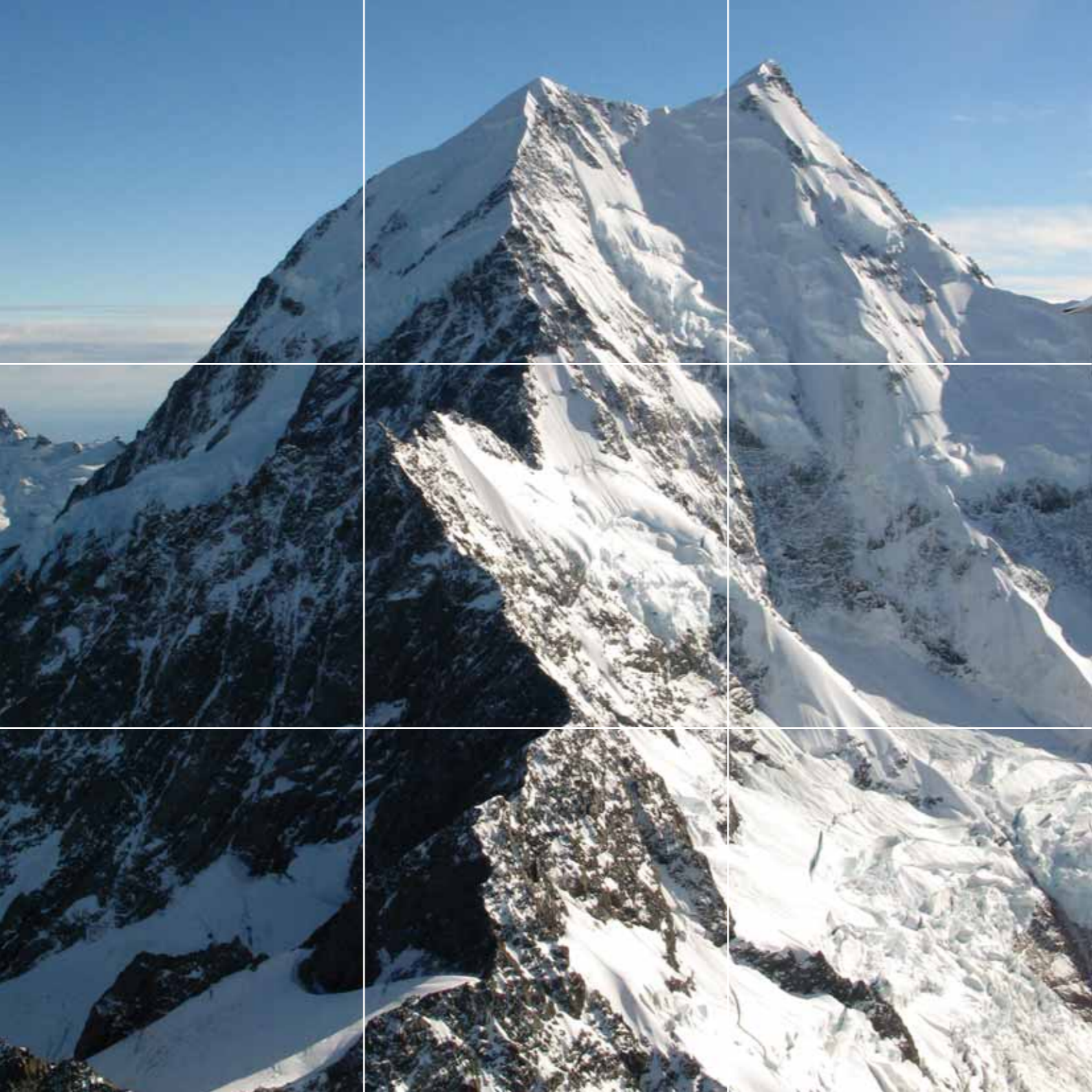
- World leading technical development for New Zealand's Environmental Choice Ecolabel
- The restoration and development of a former closed landfill in South Auckland
- Reafforestation of retired pasture farmland to create permanent native forest sinks in New Zealand
- Supporting UNICEF to assist villages throughout Lao PDR and Tanzania to access safe drinking water
- Working with the government of Tuvalu to develop sustainable waste management solutions based on composting and resource recovery
- Supporting Oxfam New Zealand's 'Water for Survival' initiatives in the Pacific
- Sponsored conservation activities in the Hunua Ranges Regional Park in South Auckland which help support the native Kokako Breeding Programme

We enjoy the challenges and the environment in which we work and are committed and passionate about what we do

Outstanding Achievements

Recent examples of some of our award winning projects include:

- **Northern Gateway Toll Road, North Auckland**
 - 2009 ACENZ Gold Award of Excellence
 - 2009 IPENZ Arthur Mead Merit Award for the Environment and Sustainability
 - 2007 Supreme Environmental Award
- **Environmental Choice New Zealand**
 - 2009 ACENZ Silver Award of Excellence
- **Material Recovery Facility, Auckland**
 - 2009 IPENZ Arthur Mead Award for the Environment and Sustainability - Winner, Large Projects Category
 - 2009 ACENZ Award of Merit
- **Ohope Escarpment Drainage Project, Whakatane**
 - 2009 ACENZ Award of Merit
- **Pitcairn Hill of Difficulty, Pitcairn Island**
 - 2009 ACENZ Award of Merit
- **Buki Tagar Sanitary Landfill, Malaysia**
 - 2008 ASEAN Distinguished Engineering Award
 - 2008 Malaysia Institute of Engineering IEM Outstanding Achievement Award
 - 2008 Association of Consulting Engineers (Malaysia) Gold Award
- **Mangakotukutuku Stream Diversion, Waikato**
 - 2008 ACENZ Silver Award of Excellence
 - 2007 IPENZ Arthur Mead Memorial Environmental Award
- **Kate Valley Landfill, North Canterbury**
 - 2007 ACENZ Gold Award of Excellence
 - 2006 New Zealand Engineering Excellence Award
- **Project Black Point, Stage 1, North Otago**
 - 2007 ACENZ Award of Merit
- **Oriental Bay Foreshore Development, Wellington**
 - 2006 New Zealand Institute of Architects - Supreme Award
 - 2005 New Zealand Year of the Built Environment Award - Finalist and Overall Winner
 - 2005 ACENZ Gold Award of Excellence
 - 2004 New Zealand Institute of Landscape Architects - George Malcolm Supreme Award
- **Seaside Park, Brady Road Closed Landfill Rehabilitation Project, South Auckland**
 - 2006 New Zealand Planning Institute Project Award
 - 2006 MfE Green Ribbon Award for Urban Sustainability
 - 2005 IPENZ Arthur Mead Memorial Environmental Premier Award



The Tonkin & Taylor Group of Companies

Tonkin & Taylor

A specialist environmental and engineering consultancy with offices throughout New Zealand. www.tonkin.co.nz

Geotechnics

A leading supplier of equipment, testing services, calibration and training, Geotechnics is a New Zealand based company that services the geotechnical, civil and environmental engineering disciplines. www.geotechnics.co.nz

Tonkin & Taylor International

A New Zealand based consultancy operating throughout the Pacific, South East Asia and the Middle East. T&T International offers specialist expertise across a wide range of disciplines to suit specific project requirements. www.tonkin.co.nz

T&T Konsult

Based in Kuala Lumpur, Malaysia, T&T Konsult provides specialist expertise in infrastructure developments from investigations and feasibility studies through to detailed design and implementation. www.ttkonsult.com.my

Chadwick T&T

With its head office in Melbourne, Australia, Chadwick T&T provides a full range of environmental and engineering services. These include geotechnical and pavement investigation and design, environmental assessment and remediation, laboratory testing and geotechnical supervision of major infrastructure projects. www.chadwickt.com.au

EDCOP

The Engineering Development Corporation of the Philippines (EDCOP) is a leading engineering consultancy operating throughout the Philippines. Founded in 1955, EDCOP provides a comprehensive range of planning and civil engineering services. www.edcop.ph



Office Locations

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Auckland - Head office

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Phone: +64-7-834 7320

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Phone: +64-7-571 7360

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Western Australia 6005, Australia
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www.tonkin.co.nz



Tonkin & Taylor - Part of the T&T Group of Companies
Celebrating 50 years in 2009

