



Job description

Title	Principal Water Supply Modeller
Number	
Group	Infrastructure
Division	City Waters
Reports to	Principal Water supply Planning
Direct reports	N/A
Date	01/07/2026

Job holder commitment

The job holder accepts as a fundamental requirement of their employment that they must demonstrate a personal commitment to:-

- modelling organisational values at all times
- a safe and healthy work environment
- assisting Council to fulfil its Civil Defence responsibilities

At TCC we uphold the principles of Te Tiriti o Waitangi by engaging in an effective and meaningful partnership with tangata whenua. We are committed to developing our knowledge and understanding of te reo Māori, tikanga Māori, Mātauranga Māori and our partnership with tangata whenua.

Job purpose

The primary purpose of this role is to provide strategic leadership and technical oversight of water supply modelling to the City Waters Planning Team to support planning, development, design, operations, and resilience assessments. The role focuses on developing modelling strategy, strengthening internal capability, and ensuring modelling outputs inform long-term planning and resilience outcomes.

Key outcomes

Strategies remain current and are well aligned with national, regional and other council direction and strategies.	<ul style="list-style-type: none">• Oversee the development, implementation and continuous improvement of water supply modelling strategy, standards and governance so models remain aligned with national, regional and council direction.• Oversee the implementation of the water supply modelling programme, including the identification of network investigations, constraints and projects that need to progress through planning and investment stages.
---	--

	<ul style="list-style-type: none"> • Ensure modelling programmes, assumptions and outputs are transparent, quality assured and suitable for strategic planning, operational decisions and investment advice. • Ensure City Waters water supply models are kept current and accurately reflect infrastructure, operational settings, demand assumptions and population forecasts. • Ensure models remain reliable by maintaining data quality, model accuracy and calibration so planning, development and operational queries are answered using robust water supply modelling information. • Build confidence in modelling outputs through clear communication, documented assumptions, effective stakeholder engagement and timely escalation of material risks.
<p>The city's water infrastructure meets growth demands and adapts to a changing climate, while meeting regulatory and legislative standards as well as community expectations.</p>	<ul style="list-style-type: none"> • Provide principal-level technical leadership for water supply hydraulic modelling to support growth planning, levels of service, resilience, operational performance and infrastructure investment decisions. • Lead complex water supply network assessments, including capacity, pressure, demand, fire flow, storage, transfer, outage, redundancy and climate resilience scenarios. • Translate model outputs into clear, defensible advice for structure planning, development assessments, business cases, renewals, upgrades and long-term infrastructure programmes. • Identify network constraints, risks and opportunities early, and guide option development so solutions are technically sound, affordable, staged and aligned with strategic objectives. • Ensure planning, development and operational queries are answered using current, calibrated and quality-assured water supply models.
<p>Provide efficient Project Management.</p>	<ul style="list-style-type: none"> • Define modelling scopes, methodologies, assumptions, deliverables and review requirements so projects are well planned and fit for purpose. • Lead or oversee delivery of modelling studies to agreed quality, time and budget expectations, including robust technical review of consultant and internal outputs. • Provide principal-level advice on modelling risk, uncertainty, limitations and confidence levels so decision-makers understand how outputs should be used.

	<ul style="list-style-type: none"> • Support procurement, management and performance monitoring of specialist modelling consultants, including development of briefs, budgets, programmes and key performance expectations. • Strong working relationships are maintained with planning, operations, asset management, digital, development engineering, consultants and other internal customers.
Provide efficient Specialist Technical Support.	<ul style="list-style-type: none"> • Ensure advice and assistance provided to managers and staff is accurate and follows organization policies and guidelines. • Set and maintain technical standards for water supply model build, demand allocation, calibration, validation, scenario management, reporting and model handover. • Provide expert advice on complex hydraulic modelling issues, including pressure management, demand forecasting, leakage assumptions, network constraints, pump and reservoir operations, and staged infrastructure solutions. • Review and challenge modelling assumptions, input data, GIS, telemetry, field testing information and growth forecasts to improve model confidence and decision quality. • Mentor and guide staff and consultants in water supply modelling practice, building internal capability and consistency of technical delivery. • Lead continuous improvement, digital innovation and better integration between models, asset data, operational data and planning processes. • Ensure modelling advice is clearly documented, peer reviewed where appropriate, and communicated in a way that is useful to technical and non-technical audiences.

The job description is not an exhaustive list of requirements; the job holder will be required to perform tasks assigned to them that are not explicitly described in this document.

Person specifications

Essential
<ul style="list-style-type: none"> • Tertiary qualification BE (Civil) or other relevant qualification. • Minimum of 10 years modelling experience of complex water supply networks.

Here to make Tauranga better



WHANAKE TE TAI

Our values

Pono / Integrity

We do what we say we will do

Manaakitanga / Respect

We listen to all views and show we care

Whāia te tika / Service

We do the right thing for our community
and each other

Whanaungatanga / Collaboration

We work together and create connections