

ROLE DESCRIPTION

ROLE

Water/Wastewater Project Engineer

ROLE PURPOSE

The Water and Wastewater Project Engineer is responsible for the technical delivery of water and wastewater infrastructure projects across their full lifecycle, from feasibility and design through to construction and commissioning. The role focuses on delivering high-quality, practical engineering outcomes that meet agreed scope, programme, budget, and quality requirements.

The role acts as a key technical contributor within project teams, coordinating civil, mechanical, electrical, automation, and geotechnical inputs, and supporting constructability, risk management, and value decisions to achieve fit-for-purpose outcomes. The Engineer provides strong technical oversight of deliverables, supports construction-phase services, and assists with commissioning and handover activities.

The role also contributes to positive client outcomes through clear technical communication, reliable delivery, and professional day-to-day engagement with clients, councils, contractors, and suppliers. In doing so, the role supports the growth of Vitruvius' water sector capability through mentoring, knowledge sharing, and the consistent application of safe, high-quality engineering practice.

The Water and Wastewater Project Engineer is expected to demonstrate leadership in health, safety, and wellbeing, and to work proactively within project teams to manage risks, programmes, and interfaces across multiple workstreams.

MISSION, VISION & VALUES

To be successful at Vitruvius and in this role, all employees must be aligned to and embrace our mission, vision, and values so that we work as a collective towards a common purpose.

Our vision is for Vitruvius to become widely known as the most valuable group of experts in the industry. For every client to value us as an integral component of their business, enabling the fullest expression of our ability.

Our mission is to empower our team to build trusted and valued partnerships with clients who see the value in our unique relationship business ethos. We believe likeminded, quality relationships produce better outcomes for our customers and allow us to produce our best work.

Our values, what we live by!



- Committed to connection
- Believe in bravery
- Continually improving
- Strength in diversity
- Enjoy the adventure

KEY RELATIONSHIPS & ORGANISATION STRUCTURE

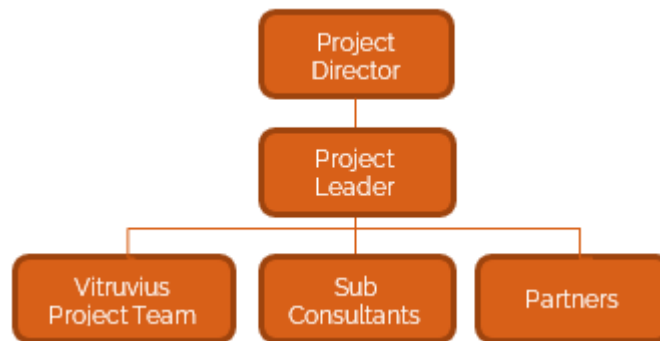
Line Manager:	Service Leader – Civil and Water Engineering
Direct Reports:	n/a
Internal relationships:	All employees
External relationships:	Key Clients, Partnership Consultants, Service Providers, Third Party Contractors, Public

DIMENSIONS AND SCOPE

Contract Type:	Permanent full time
Location:	Tauranga
Level:	6

PROJECT DELIVERY CONTEXT

The nature of business that Vitruvius operates is to deliver client projects and we recognise that each project has different capabilities and requirements. For each project a project team is established which may be considered as a temporary organisation structure and can be illustrated below. The Water and Wastewater Engineer will be assigned to a role within the Project Team when working on client projects, please refer to the Project Team role descriptions.



KEY ACCOUNTABILITIES

1. HEALTH, SAFETY & WELLBEING

- Lead in the delivery of Vitruvius' health, safety and wellbeing systems and requirements and ensure that it is communicated and positively reinforced to all employees.
- Lead by example for all HSW including hazard management, incident reporting, drills and compliance.
- Comply with site operating rules, processes, and procedures to prevent project incidents.
- Take responsibility for personal safety and that of other employees, contractors, and visitors within your work environment to avoid accidents and incidents.

2. QUALITY & IMPROVEMENT

3. Promote and support consistent application of the QMS within the role's area of responsibility.
4. Monitor quality performance, identify risks/issues, and escalate or act as required.
5. Support corrective actions, continuous improvement, and lessons learnt.
6. Ensure relevant reviews, checks, approvals, and records are completed.
7. Review all safety bulletins, changes to codes and practices prior to sign off to keep up to date with all safety requirements including the incident escalation process.
8. Meet and maintain all medical standards set out by Vitruvius and take responsibility for personal wellbeing to ensure fitness for work.
9. Assess new plant, equipment, material and substances for risks and develop controls with the appropriate qualified personnel.

3. PROJECT DELIVERY

- Support the delivery of water and wastewater infrastructure projects in accordance with agreed scope, programme, budget, and quality requirements.
- Take ownership of allocated work packages and coordinate civil, mechanical, electrical, automation, and geotechnical inputs to achieve on-time, in-full, and fit-for-purpose delivery.
- Contribute across the project lifecycle, including feasibility, optioneering, detailed design, procurement support, construction-phase services, and commissioning.

4. TECHNICAL ENGINEERING

- Prepare and review engineering deliverables including reports, calculations, drawings, specifications, and schedules.
- Contribute to the design of pipelines, pump stations, treatment plant components, and associated mechanical systems.
- Support hydraulic assessments, operational scenario review, and interpretation of specialist modelling outputs.
- Undertake constructability reviews and support value engineering initiatives.
- Develops technical capability of others as well as self in field of expertise.
- Inputs into technical library and facilitates technical knowledge sharing internally.

5. CONSTRUCTION AND COMMISSIONING

- Provide construction-phase technical support, including RFI responses, site inspections, shop drawing reviews, and MSQA activities.
- Assist with commissioning planning, test procedures, performance verification, and defect close-out.
- Liaise with contractors and suppliers to resolve technical issues efficiently.

6. PROGRAMME, COMMERCIAL, AND RISK

- Support programme tracking, short-term planning, and deliverables management across multiple projects.
- Assist with variation assessments, extension of time inputs, commercial reporting, and progress updates as required.
- Maintain risk registers and support mitigation planning to manage project delivery risks proactively.

7. CLIENT AND STAKEHOLDER ENGAGEMENT

- Act as a day-to-day technical contact for assigned scopes and represent Vitruvius professionally with clients, councils, contractors, and other stakeholders.
- Prepare clear, professional technical correspondence, reports, and meeting documentation suitable for asset owner and council environments.
- Develop and foster new client relationships.
- Contribute to the growth and strengthening of Vitruvius' water sector through collaboration, knowledge sharing, and alignment with sector objectives.
- Work proactively to agreed client schedules and programme commitments, escalating issues early where support or intervention is required.

PERSONAL PROFILE AND SPECIFICATIONS

KNOWLEDGE, EDUCATION AND EXPERIENCE

Essential	Desirable
• 5 years' experience delivering water and/or wastewater infrastructure projects. • Bachelor's degree in Civil Engineering or Mechanical Engineering (or equivalent recognised qualification). • Proven involvement in pump stations, pipelines, rising mains, and/or treatment plant projects. • Experience supporting projects through design and construction phases. • Solid understanding of civil-mechanical-electrical interfaces in water infrastructure. • Familiarity with New Zealand standards, council requirements, and typical delivery models. • Ability to manage multiple workstreams concurrently and work with minimal supervision. • Working toward or holding CPEng / Engineering New Zealand registration.	• Experience with hydraulic modelling tools and interpreting transient analysis outcomes. • Exposure to MSQA, commissioning documentation, and construction monitoring. • Experience in design-and-construct or collaborative delivery environments. • Experience in Autodesk Plant3D, Revit MEP, CIVIL 3D