

## POSITION DESCRIPTION

# Hydrologist

<b>Division</b>	Environment, Health and Safety
<b>Location</b>	Various
<b>Classification</b>	Water Award 2020 Level 8
<b>Employment Status</b>	Permanent, Full Time
<b>Direct Reports</b>	Nil
<b>Reports To</b>	Environmental Compliance Lead

## ORGANISATION

Tasmanian Irrigation Pty Ltd (TI) is a state-owned company responsible for operating and developing irrigation schemes funded through public/private partnerships.

Since Tasmanian Irrigation was established in 2008, the company has taken over management of a range of inherited assets, including dams, irrigation schemes and river works, constructed 15 new irrigation projects, and advanced planning on a further six projects.

Tasmanian Irrigation now oversees 25,000 individual infrastructure assets with a replacement value of approximately \$500 million across 18 operational schemes and has the capacity to deliver more than 133,000 megalitres of irrigation water each year.

By 2030, Tasmanian Irrigation expects to manage a portfolio of irrigation infrastructure valued at more than \$900 million, capable of delivering 236,000 megalitres of water via 1,786 km of pipeline, 49 pump stations, 15 dams and three power stations.

All schemes developed and operated by Tasmanian Irrigation are economically viable, environmentally sustainable, have strong community endorsement, are designed to last at least 100 years and deliver water at an average reliability of more than 95 per cent per annum.

## POSITION OBJECTIVE

The primary objective of this position is to provide expert hydrological advice, support within TI managed schemes and projects on all aspects including water licence compliance, water quantity data collection, analysis and reporting. In addition, the role plays a crucial role in coordinating hydrological reports, managing flow data, and fostering positive relationships with stakeholders and regulatory bodies to optimise water flow efficiency and maintain compliance with Australian standards.

## KEY DUTIES

- Oversee the water license compliance across all TI managed scheme including cease to take requirements.
- Provide advice and oversight for the siting, design and installation of hydrometric equipment related to the construction or ongoing operation of TI irrigation schemes.
- Scope, coordinate review and provide input and advice on hydrological and water flow reports commissioned by TI.
- Preparation of technical hydrological reports.
- Manage the TI hydrology contract and ensure consultants are performing per contractual conditions.
- Ensure the maintenance of existing hydrometric equipment such as gauging stations and evaporation pans in accordance with current Australian standards.
- Undertake hydrometric field monitoring, investigation and data collection activities.
- Manage and analyse flow data within Aquarius and develop rating curves.
- Conduct flow measurements to inform transmission loss values within waterways that TI delivers water.
- Effectively manage the daily flow rate requirements of schemes to ensure maximum efficiency and delivery.
- Identify and recommend process and efficiency improvements to maximise the usage of water licence limits.
- Complete water balances within priority waterways that TI delivers water.
- Establish and maintain effective relationships with irrigators, land managers and the Department of Natural Resources and the Environment Tasmania (NRET).
- Other related duties as required.

## WORK HEALTH & SAFETY

- Be an exemplary safety leader.
- Be responsible for own health and safety (including mental health) and the health and safety of others.
- Actively promote workplace health and safety.
- Understand and deliver on workplace health and safety responsibilities, and follow procedures for reporting hazards, incidents and injuries in line with company and certification requirements.
- Be aware of and promote fire and emergency procedures.
- Ensure all workplace health and safety related policies and procedures are always upheld, and abide by all workplace health and safety directives, including complying with safe work practices including utilisation of personal protective equipment and clothing.

## ORGANISATIONAL ENVIRONMENT

- Work with all employees to proactively maintain a positive, enduring culture and work environment.
- Act with integrity and fairness in dealings with internal and external stakeholders.
- Ensure all work carried out retains its simplicity while being of the highest standard.
- Adhere to TI instructions, policies and procedures to ensure safe and correct working practices whilst still achieving required results.

## SELECTION CRITERIA

### ***Essential:***

- Tertiary qualifications in hydrology, hydrography, water resources, engineering, or physical sciences relevant to the duties being undertaken.
- Experience in undertaking hydrometric field monitoring, investigation, data collection and management.
- Knowledge of surface water and groundwater management including data analysis and interpretation.
- Excellent communication and report writing skills.
- Ability to work independently.
- Hold a current driver's license.

### ***Desirable:***

- Experience in selecting, setting, installing, and maintaining hydrological instruments.
- Experience with Geographic Information Systems (GIS).
- Experience in water management in a government setting.

## KEY WORKING RELATIONSHIPS

### ***Internally:***

- Environment Team
- Engineering Team
- Water delivery Team
- Dam Safety Engineer
- GIS Specialist
- Project Managers

### ***Externally:***

- Regulators
- Landowners and Irrigators
- Environmental Consultants
- Contractors
- Water and Environmental Regulators

## WORKING CONDITIONS & PHYSICAL REQUIREMENTS

This role is primarily based in an office however may involve significant driving in varied conditions. A valid driving licence and the ability to drive in variable conditions will be required.

This role will involve inspecting work sites and attending meetings out of hours from time to time. Required to pass a pre-employment medical assessment.

## PERFORMANCE CRITERIA

- Communicates with Influence
- Cultivates Productive Working Relationships
- Shapes Strategic Thinking
- Exemplifies Personal Drive and Integrity
- Achieves Results

## APPROVAL

Position Holder: \_\_\_\_\_

Dated: \_\_\_\_\_

CEO: \_\_\_\_\_

Dated: \_\_\_\_\_