

Title	Carry out a full pipe water measurement system verification		
Level	5	Credits	5

Purpose	<p>This unit standard is for people who are responsible for the verification of full pipe water measurement devices required for water permit holders to meet their obligations.</p> <p>People credited with this unit standard are able to: select an appropriate full pipe water measurement system verification methodology; prepare for and carry out a full pipe water measurement system verification; and complete a full pipe water measurement system verification report.</p>
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Classification	Water Industry > Irrigation
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Available grade	Achieved
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Guidance Information

- 1 Legislation, regulations, and the policy statement relevant to this unit standard include but are not limited to:
 - Building Act 2004;
 - Health and Safety at Work Act 2015;
 - Resource Management Act 1991;
 - Electricity (Safety) Regulations 2010;
 - Resource Management (Measurement and Reporting of Water Takes) Regulations 2010;
 - National Policy Statement for Freshwater Management 2014;
 - Local bylaws;
 - and any subsequent amendments.

- 2 For the purposes of assessment:
 - the irrigation system performance assessment is for an agricultural or horticultural property, sports turf, or public ground.
 - evidence for all outcomes must be presented in accordance with: New Zealand Piped Irrigation System Performance Assessment Code of Practice; New Zealand Water Measurement Code of Practice; and Irrigation New Zealand Technical Glossary; available from the Irrigation New Zealand website, <http://irrigationnz.co.nz/>.

3 Definition

Full pipe water measurement refers to all components of the measurement configuration which include:

- Service Water meter – instrument that continuously measures and records the volume of water that passes through it.
- Headworks – the structure at the head of the system that contains the service water meter.

Outcomes and performance criteria**Outcome 1**

Select an appropriate full pipe water measurement system verification methodology.

Performance criteria

- 1.1 Select methodology in accordance with legislation, regulations, guidelines, relevant regional council requirements, and specific permit conditions.
- 1.2 Select methodology suitable for the full pipe water measurement system installation that it will be verifying.

Outcome 2

Prepare for and carry out a full pipe water measurement system verification.

Performance criteria

- 2.1 Carry out a general inspection of the full pipe water measurement system installation.
- 2.2 Carry out a verification in accordance with the full pipe water measurement system requirements.
- 2.3 Calculate and interpret the error and certainty in terms of the verification methodology.

Outcome 3

Complete a full pipe measurement system verification report.

Performance criteria

- 3.1 Submit completed verification report to the relevant regional council.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 October 2011	31 December 2022
Review	2	27 February 2020	N/A

Consent and Moderation Requirements (CMR) reference

0179

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the Primary Industry Training Organisation at standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.