

Title	Select, install, and commission a full pipe water measurement device		
Level	5	Credits	5

Purpose	<p>This unit standard is for people who are responsible for the selection, installation, and commissioning of full pipe water measurement devices.</p> <p>People credited with this unit standard are able to: select a full pipe water measurement device; prepare for and install a selected full pipe water measurement device; and commission the full pipe water measurement device and complete installation reporting.</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, policy statement and workplace procedures 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;
 - Natural and Built Environment Act 2023 section 37 Relationship with RMA national direction (2)(c);
 - Electricity (Safety) Regulations 2010;
 - Resource Management (Measurement and Reporting of Water Takes) Regulations 2010;
 - Resource Management (Measurement and Reporting of Water Takes) Amendment Regulations 2020
 - National Policy Statement for Freshwater Management 2020;
 - Radiocommunications Regulations 2001;
 - Local bylaws;
 - and any subsequent amendments.

2 Definitions

Consenting authority refers to the regional council or unitary authority that granted the water permit.

Full pipe water measurement device refers to all components, excluding telemetry components, of the measurement configuration which includes:

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

3 Assessment

Evidence of all outcomes must be presented in accordance with the New Zealand Water Measurement Code of Practice, available from the Irrigation New Zealand website

<https://www.irrigationnz.co.nz/>.

Outcomes and performance criteria

Outcome 1

Select a full pipe water measurement device.

Performance criteria

- 1.1 Select a full pipe water measurement device to be installed in accordance with specifications.

Range includes but is not limited to – legislation, regulations, relevant consenting authority requirements, code of practice, specific permit conditions.

Outcome 2

Prepare for and install a selected full pipe water measurement device.

Performance criteria

- 2.1 Check selected water meter components and install and confirm their configurations to minimise flow disturbances.
- 2.2 Check installed water measurement device location for consistency with legislation, regulations, guidelines, relevant consenting authority requirements, code of practice and specific permit conditions.
- 2.3 Check the water measurement device is not compromised post installation site reinstatement.

Outcome 3

Commission the full pipe water measurement device and complete installation reporting.

Performance criteria

3.1 Commission a full pipe water measurement device.

3.2 Write and submit an installation report to the relevant organisations.

Range may include but is not limited to – consent holder, consenting authority, data hosts, data managers.

Planned review date	31 December 2028
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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	31 December 2024
Review	3	25 January 2024	N/A

Consent and Moderation Requirements (CMR) reference	0179
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Muka Tangata - People, Food and Fibre Workforce Development Council qualifications@mukatangata.nz if you wish to suggest changes to the content of this unit standard.