

Form RS1 Piped takes, water meter, datalogger installation/ commissioning and verification



Otago
Regional
Council

This form must be completed by the installer or verifier of the installation and attached with requested photographs then returned to watermetering@orc.govt.nz

Verification:

Installation/Commissioning:

RESOURCE CONSENT AND LOCATION DETAILS

Consent Number:

Consent Holder's Name:

Address of take:

GPS Meter Location (NZTM)

Easting:

Northing:

GPS Water Take Location (NZTM)

Easting:

Northing:

Location Description:

Well Number:

Well tag attached: Yes

No

WM Number:

Date of Verification:

PIPE DETAILS

Pipe Internal Diameter:

mm

Pipe External Diameter:

mm

Pipe Wall Thickness:

mm

Pipe Material:

Distance of straight unobstructed pipe upstream of water meter:

mm

Distance of straight unobstructed pipe downstream of water meter:

mm

Has the installation been set up to allow for a flow rig to be used?

Yes

No

FOR NEW/REPLACEMENT INSTALLATIONS: Please state the manufacturers specifications for straight length of pipe upstream and downstream of meter and other information e.g Location of the valves or direction of flow.

Installation should include a suitable pipe to allow the appropriate use of a portable clamp-on independent meter; or a section of pipe with flanges to allow an independent meter to be inserted in-law.

Please attach with this document; pictures of the set up of pipework, meter and set up showing lengths.

METER DETAILS

Model:	Pulse Output Units:
Make:	Pulse per m3:
Serial Number:	
Installer:	Start Meter Reading
	Volume:
Meter Type:	

DATALOGGER DETAILS

Installed:	Yes	No	Telemetry installed for consent compliance:	Yes	No
Model:			Telemetered daily to ORC:	Yes	No
Make:			Data Hosted By:		
			Serial number:		

ULTRASONIC METERS ONLY

Transducer Size:	
Transducer Spacing:	
Transducer Mounting:	Reflect: Direct:

REFERENCE METER CONFIGURATION

Equipment Used:	
Reference Meter:	Serial Number:
Size:	Volume Per Pulse:
Last Certified:	

Please provide details of the verification method used

ACCURACY DETAILS

Do you have the water meter calibration certificate? Yes

No

(If Yes, please submit the certificate)

Has the meter been checked against a portable water meter? Yes

No

MEASURED FLOWS

Verification test should be conducted for the typical flow rate of the system with a minimum 3 replicates, and record and complete the meter comparison in the table below.

The verification test volume and duration should be sufficient so that they do not influence the test uncertainty.

If a change in set-up is required please carry out all 5 runs, and comment in the comment section explaining the change and the reason.

Run	1	2	3	4	5	6
Duration						
Client Meter Volume (Vtest) (m3)						
Reference Volume (Vref) (m3)						
Flow Rate for Test (Qref) (m3/sec)						
Meter Comparison $((V_{test} - V_{ref})/v_{ref}) \times 100$ (%)						

Average (%)

Final Meter
Reading

Time

Why were these extra tests carried out at these limits?

Comment: e.g. note if they have had to change the set-up, if there are some other factors are occurring at the time.

Please provide explanation of any results over 5%.

INSERTION METER ONLY

Insertion Depth:

K-Factor:

CERTIFICATION

I/we certify that the above water meter/measuring device has been verified and the measured flow is within 5% of the verification device

I/we have found that the installed water meter/measuring device deviates more than 5% from the verified flow.

Recommend remedial action:

Notes:

This certificate is valid for 5 years from the date of issue, or as required by consent conditions, whichever the shortest time frame, and is subject to on-going surveillance.

It is the requirement of this certificate that you inform the Consenting Authority of any adjustment/modification to the measuring device OR of its installation.

Verified by:

Signature:

Company:

Date:

Is the person/company accredited by the National Water Measurement and Reporting — Industry Accreditation Program?

Yes

No