

# Flowmeter/Water Measuring Device Verification Form

FOR OFFICE USE ONLY

TO: Environment Canterbury  
C/o Water Metering Team  
200 Tuam Street  
PO Box 345  
Christchurch 8140

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Consent Holder: \_\_\_\_\_  
Consent number: \_\_\_\_\_ Well/SWAP number(s): \_\_\_\_\_  
Flowmeter Installation date: \_\_\_\_\_ Verification date: \_\_\_\_\_

**Flowmeter/Water Measuring Device details:** *(if not already provided on installation and commissioning form)*

Make: \_\_\_\_\_ Meter size: \_\_\_\_\_ (mm diameter)  
Model: \_\_\_\_\_ Pulse output:  Yes  No  
Serial number: \_\_\_\_\_ Volume per Pulse \_\_\_\_\_ **m<sup>3</sup>/puls**  
Meter Reading Volume: \_\_\_\_\_ m<sup>3</sup> *(state units if different)*

**Datalogger details:** Installed  Yes/ No  
Make: \_\_\_\_\_  
Model: \_\_\_\_\_ Serial number: \_\_\_\_\_  
Telemetry installed for compliance:  Yes/ No Data hosted by: \_\_\_\_\_

**Insertion meters only:**  
Encountered K-factor in the flow meter : \_\_\_\_\_ Correct  Yes  No

**Ultrasonic meters only:**  
Transducer size encountered: \_\_\_\_\_ Transducer spacing: \_\_\_\_\_  
Transducer mounting: \_\_\_\_\_ V or Z (Please circle, V = Reflect, Z = Direct) Correct  Yes  No

**Verification details:**

Is a clamp-on water meter used for verification:  Yes  No *(if no describe the method used) e.g. reservoir/time calculation, volumetric etc)*  
Verification flow meter brand and type: \_\_\_\_\_  
Verification flow meter serial number: \_\_\_\_\_  
Last calibration date of the flow meter used for verification: \_\_\_\_\_

*(Calibration certificates needs to be send in (once) after every (yearly) calibration to ECan)*

### Verification parameters:

Used parameters for verification: Pipe diameter: \_\_\_\_\_mm Pipe Wall Thickness \_\_\_\_\_mm

Pipe material:  *Ductile Iron*,  *Mild Steel*,  *PVC*,  *Polyethelene*,  *Aluminium*,  *other* : \_\_\_\_\_

Location in system where the clamp-on was attached: \_\_\_\_\_

### Measured flows:

Undertake three separate observations and record and average the results in the table below.

Verification flows should be taken at or around the consented flow rate and/or the flow rate the well is usually pumped at.

If flows don't verify within 5% a second clamp-on location can/should be attempted.

	Location 1 Observation 1	Location 1 Observation 2	Location 1 Observation 3	Location 2 Observation 1	Location 2 Observation 2	Location 2 Observation 3	Average
installed meter flow: L/s							
verification flow meter: L/s							
% Difference							

### Certification:

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

### OR (circle one)

I/we have found that the installed flowmeter/water measuring device deviates more then 5% **above/below** the verified flow.

Recommend remedial action:

\_\_\_\_\_

Verified by: \_\_\_\_\_

Signed (by verifier): \_\_\_\_\_

Verifiers Certificate No \*: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

\* Each verifier will be registered by the manufacturer/supplier on having attended a verifier course for their equipment. ECan will keep a list of the approved verifiers and certificate numbers.