Telemetry (Self) Verification Form

This form is to help consent holders check that their telemetry system is working properly.

The National Environmental Monitoring Standard for water meter data calls for telemetry to be within +/-1% of the volume recorded by the water meter to allow for the data to be quality coded (QC) 600. This test may not result in +/-1% accuracy due to run time and volume taken so Council at their discretion may still deem that a result of more than +/-1% is acceptable. **HBRC have deemed +/- 5% acceptable for the 2017-18 check.**

Why it is important to check your telemetry is accurate

Water Meters can be configured to "pulse" at different intervals. Some meters will generate a pulse for every Litre, 10 Litres, 100 Litres or every cubic meter (1000 Litres) and your telemetry provider needs to know this to set up your system correctly.

Over reporting may lead to false non-compliances or may lead to consent holders believing they are using their maximum volume but not receiving the benefits or yields they should expect.

Under reporting may lead to consent holders believing they have additional water and expanding their businesses only to find they are grossly breaching their consents when the issue is identified and corrected. It may also mean reduce volumes granted to Consent Holders who never appear to "use" their allocations.

Under reporting will also affect the ability for Council to undertake effective modelling and State of the Environment Reporting which will have long term impacts on allocation decisions.

The other problem that can occur is that the telemetry is not recording the water going through the meter. This could be because of a broken wire, or cables not connected correctly. We need to ensure the telemetry is recording your water take.

Lastly, you want to know that the service you are paying for is being undertaken correctly on your behalf.

Test Methodology

To check your telemetry is working correctly, you will need to run your irrigation/water take system so that your meter will generate pulses and the telemetry will record and report this to Council. The data is supplied to Council as either meter readings or volume (m^3) taken in 10-15 minute blocks as per the example below.

05-Oct-2014 03:30:00	0.0
05-Oct-2014 03:45:00	2.0
05-Oct-2014 04:00:00	23.2
05-Oct-2014 04:15:00	23.1
05-Oct-2014 04:30:00	23.2
05-Oct-2014 04:45:00	23.1
05-Oct-2014 05:00:00	23.0

Just before an irrigation run, take a physical meter reading (including decimal points) with the exact time and date, and a photo, then the second reading with exact time/ date (and photo) after 2-3 days of pumping. Do this last reading once the meter has become static. Otherwise, if you are *just testing* the system, do this for a minimum of 45 minutes to ensure 1 full 15 minute period of take is recorded and submitted to Council.

Provide the following sheet and photos to Council so we can check the data we have received matches what you have recorded on your own meter.

Submit the form and photos to waterinformation@hbrc.govt.nz.

Telemetry (Self) Verification Form

For help or assistance completing this form please contact the Water Project Coordinator at HBRC: **06 835 9200**

Consent Details

Consent Holder Name: _____

Consent Number: _____

Water Meter Identifier (e.g. M1 or M2 or serial number if known): _____

Bore Number: _____

Telemetry Installer: _____

Telemetry Provider: _____

Test Details

Test Date/s: _____

Exact Start Time (e.g. 9.33am) _____ **am/pm**

Meter Reading (including decimals) _____ **m^3** **Photo Taken** ☐

Exact Finish Time (e.g. 10.24am) _____ **am/pm**

Meter Reading (including decimals) _____ **m^3** **Photo Taken** ☐

Person Undertaking Test: _____

Council Use Only

Volume recorded by Meter: _____ **m^3** **Photos Supplied** ☐

Volume reported by Telemetry: _____ **m^3**

Difference % (Meter-Telemetry)/Telemetryx100: _____ **m^3**

Within +/-5% : Y/N ____

If NO, are corrective actions required: Y/N **Explanation/Action:** _____

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