



MARLBOROUGH
DISTRICT COUNCIL

Renwick Water Metering



Recap from Previous Meetings

- Why are we introducing water meters?
 - Reducing Water Consumption
 - Equitability of Charging
 - Funding
 - Reduction in Operating costs & Future Capital Upgrades

Water Consumption

- Nationally average water demand is 450 L/person/day
 - includes irrigation of gardens
- Renwick's average domestic consumption over the last 4 years is 720 L/person/day
 - common across Marlborough region
- Includes 22% reduction in water with voluntary restrictions over the last four summers
- NB; Melbourne due to water shortages has this down to 105 L/person/day

Water Savings

- Using water meters is estimated to save 25 to 35% on the average use - 2011 to 2014
- An additional 13% saving could be achieved in excess of voluntary restrictions
- More on that shortly...

Costs

The revised estimate for charges is as follows:

- Base Fee \$200 for first 200 m³
- Water used in excess of 200 m³ at \$0.90 per m³
- Capital costs
 - for a property with a land value of \$175,000 = \$112

Rating Comparisons

Category	Land Value	2016/17	2020/21 Combined Water Schemes	2021/22 Base fee only	2021/22 Base Fee + 200 m ³	2021/22 Base Fee + 400 m ³
Benchmark Property	175,000			200 m ³	400 m ³	600 m ³
Renwick Water Cap Works Rate		4	112	112	112	112
Base Fee		510	510	200	200	200
Additional water cost					180	360
		514	622	312	492	672

What does my meter look like?



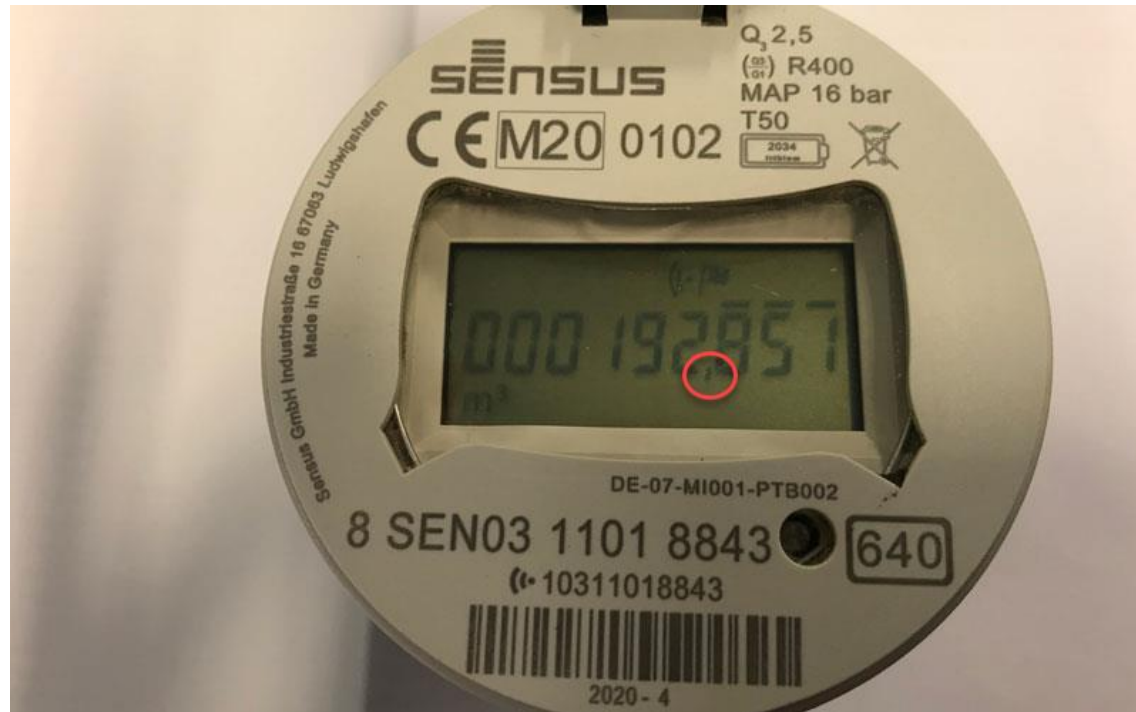
- Meters can be found in the water box outside your property
- Each property is individually labelled

What does my meter look like?

- Sometimes there will be more than one meter in the box but each connection has been labelled with the property number it services

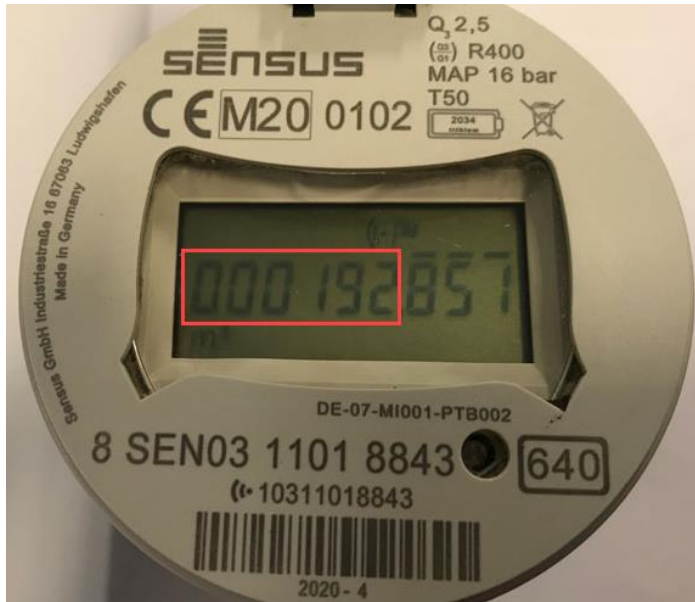


How to Read Your Meter

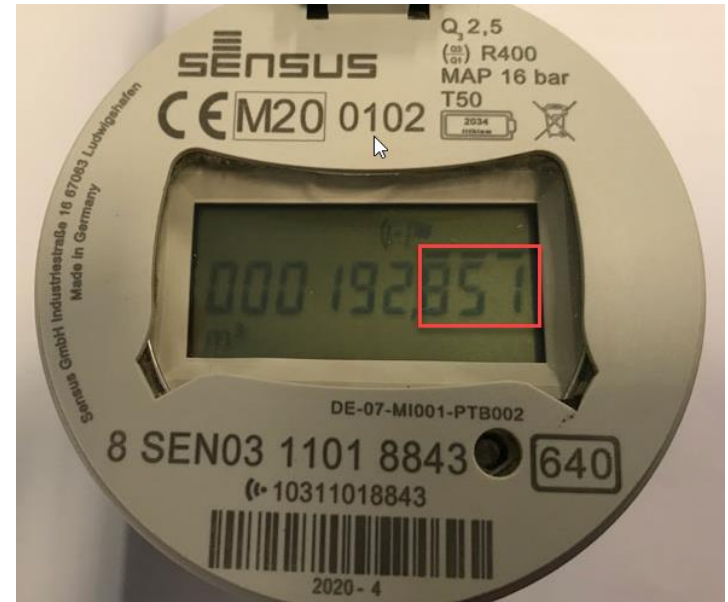


On the meter face there is comma as shown above

How to Read Your Meter



Digits before the comma



Digits after the comma

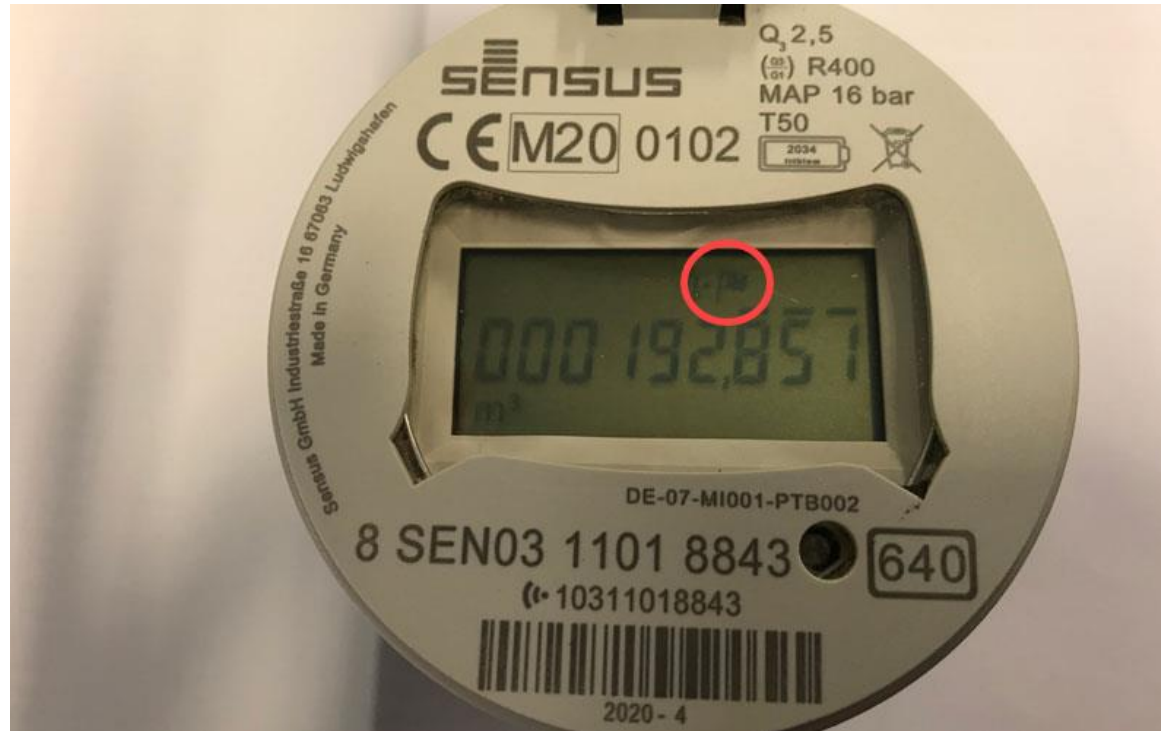
- The six digits before the comma are read in Cubic Metres [m³]
- The three digits after the comma are read in Litres [L]
- So this meter reads;

192 Cubic Meters and 851 Litres of water

Is my water usage normal?

- Renwick meter reading so far have shown the average domestic water use for this winter to be approximately 1m³ per day per property
- If we exclude the properties which have leaks then we see the average drops to around 0.5m³ per day
- Your individual usage will vary throughout the year inline with the different seasons
- It will also depend on factors such as occupancy, property size, and irrigation levels

How do I know if I have a leak?



The Position of the Flag Symbol

- If you see the flag symbol appear on you meter face you probably have a leak on your property and...

Leaks

- If you are reading your meter and the value between readings is very high then your property may have a leak
- Property owners are responsible for identifying and repairing water leaks on their property
- If a leak is found and repaired in a timely fashion the owner can provide evidence of the repair to Council and apply for a remission
- Property owners have until July 2021 until they required to pay for the water using the new metering system.
- This will allow owners time to repair any leaks and assess/adjust their water usage

How do I confirm if I have a leak?

- Watch the dial for a brief period – large leaks are evident from the dial ticking over quickly
- Pick a time when no water will be used for at least four hours – overnight is a good time.
- Read your water meter, and then read it again after the period of not using any water.
- If the meter number has changed, this shows water is being used and it is likely you have a leak.
- To find the size of the leak subtract the old reading from the new reading and divide by the number of hours the water was not used for, for example;



Dial Reading at 10:00pm at Night



Dial Reading at 7:00am the next morning

$$57746.310 - 57746.285 = 0.025\text{m}^3 \text{ (or 25 Litres)}$$

$$25 \text{ Litres} \div 9 \text{ Hours} = 2.8 \text{ Litres per hour}$$

Left unrepaired this leak would waste 24m³ of water each year

How do I find a leak on my property?

How to check for obvious leaks

- Look for dripping taps.
- Look behind your dishwasher and washing machine for any signs of water.
- Check your toilet cisterns. Put a few drops of food colouring in the cistern. If colour ends up in the toilet bowl without flushing, you have a leak.
- See if the hot water cylinder expansion relief valve is letting water drip into the gully trap or onto the roof.
- In dry weather, look for damp or green patches in the garden, lawn or driveway.
- Listen for running water inside your home when no taps, hoses or showers are turned on.

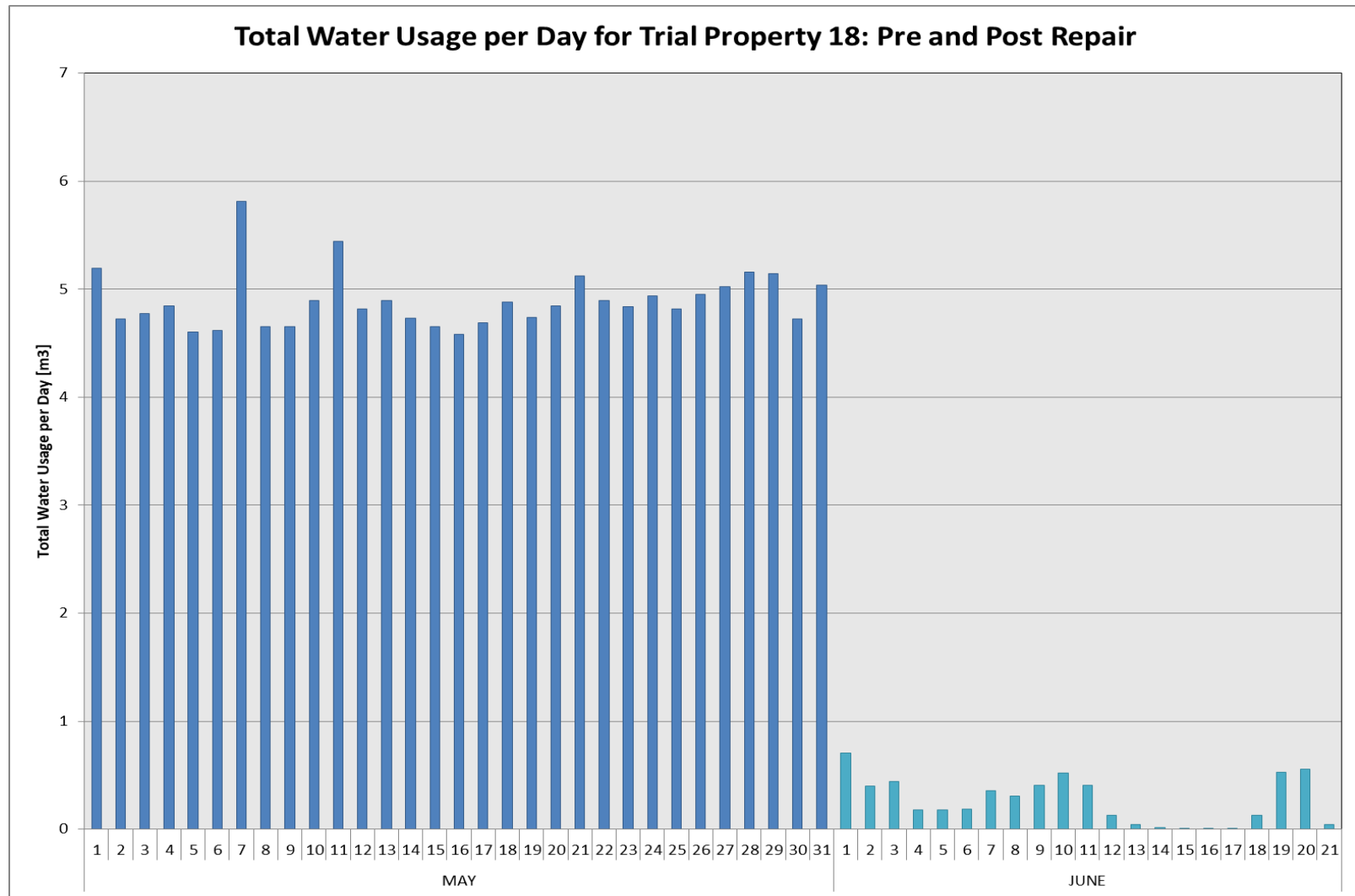
What if I can't find any leaks?

- You may need to call a registered plumber to check further.

Leaks identified and repaired so far

- In the first read of Renwick 192 properties were found to have leaks. These range in size from a dripping tap to 68m³ per day
 - *Equal to 4.7% of the current daily demand*
- Council has sent 75 letters to properties which we consider to have significant leaks.
- To date six owners have contacted Council to advise they have repaired leaks. This has already saved around 30m³ of water per day for the township.
 - *A 2% reduction in winter water demand*

Water consumption before and after leak repair



Reading

- The meters will be read quarterly using the drive-by system
- Each meter emits a radio signal every 10s which can be detected by a radio receiver
- Council can then simply drive by and pick up these signals with the receiver and this is relayed to the reading software.



Billing – Indicative Consumption Notice

Metered Water

Water Consumption and Indicative Charges



Water Account No. 800991

The Wine Studio Limited
PO Box 5180
Springlands
Blenheim 7241

Property Address 19 Cloudy Bay Drive,
Waiher Hills
Date 17 June 2019
Legal Description LOT 2 DP 404704
Property Number 538338
Water Supply Cloudy Bay
Business Park

This indicative statement provides you with your water consumption and an estimate of what you could pay under the new metered charges when they come into effect in July 2021.

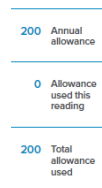
The unit rate per m³ has been calculated based on the financial assumptions of the Council's 2020-21 Annual plan. This figure is likely to change for the 2021-22 rate.

Information only - No payment required

The first invoice will be sent out in September 2021. For more information refer to the FAQ overleaf or visit: www.marlborough.govt.nz

Consumption Information Estimated Unit Rate (m³): Renwick \$0.90

Meter No.	Previous Reading Date	Previous Reading	Current Date	Current Reading	Usage (m ³)	Annual Allowance Used	Annual Allowance Balance	Indicative amount
07W714808	6/03/2019	1787	6/03/2019	1787	309	0	0	\$0
07W714808	6/03/2019	1787	6/03/2019	1787	309	0	0	\$0
07W714808	6/03/2019	1787	6/03/2019	1787	309	0	0	\$0
07W714808	6/03/2019	1787	6/03/2019	1787	309	0	0	\$0
07W714808	6/03/2019	1787	6/03/2019	1787	309	0	0	\$0
07W714808	6/03/2019	1787	6/03/2019	1787	309	0	0	\$0
07W714808	6/03/2019	1787	6/03/2019	1787	309	0	0	\$0
07W714808	6/03/2019	1787	6/03/2019	1787	309	0	0	\$0



Your bill under the new system is estimated to be: **\$128.00**

- Water billing through the meter begins in July 2021
- Until this time you will receive quarterly indicative consumption notices as pictured
- This will show you your water consumption from the previous quarter and what you would be likely to pay under the new system
- You will receive your first payable invoice in September 2021

Visit us

Hours: Monday to Friday 8.00 am - 5.00 pm
Blenheim: 15 Seymour St | Picton: 2 Dublin Street

03 520 7400 | mdc@marlborough.govt.nz
www.marlborough.govt.nz

Further information

- Visit the Council website and read the water metering FAQ's section
 - *these slides and other information will also be available*
- Refer to the FAQ's section on the overleaf of your indicative consumption notice
- Call the Council on 520 7400 and the customer services officers will direct your call to the correct department



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Capital Upgrades



Capital Upgrades – Where are we at?

- New reservoir (1500 m³) complete, water tightness testing underway. In service for summer. Old tanks to be removed (450 m³)
- Construction of the pipeline - new bores to TP underway. Completion next winter.
- Land purchase on the lower terrace being finalised.
 - ~ Space constraints at existing site.
 - ~ Shifts use of chemicals away from nearby residents.
- Tendering for membranes closed and evaluation underway.
- Water Treatment Plant design progressing.
- Project completion estimated during 2022.

Any Questions?

Irrigation use

- During summer evapotranspiration peaks at approx 5 mm per day (water loss from plants and soil)
- A hose tap running at 15 litres/ minute delivers 900 litres per hour
- This spread over 400 m² = 2.25 mm water depth

Irrigation Use (cont'd)

- Therefore to overcome evapotranspiration the hose needs to be running over this area for 2.2 hours
- In that time it will use 1980 litres of water
- This equals 1.98 m³
- Over 30 days this will use 59.4 m³
- On line irrigation calculator
 - <http://mycatchment.info/>