



MARLBOROUGH
DISTRICT COUNCIL

Havelock Water Metering



Recap from Previous Meetings

- Why are we introducing water meters
 - Reducing Water Consumption
 - Equitability of charging
 - Funding
 - Reduction in costs, both for Operational & Future Capital Upgrades

Water Consumption

- Nationally average water demand is 450 L/person/day
 - includes irrigation of gardens
- Havelock's average domestic consumption over the last 4 years is 800 L/person/d
 - common across Marlborough region
- There has been a 35% reduction in water demand when comparing this winter to last year.
 - Dropping from an average total use of 800 to 500 m³/d.
- Note 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
- 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 \$1.60 per m³
- Capital costs – for a property with a land value of \$178,000 = \$121

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	178,000			200 m ³	400 m ³	600 m ³
Havelock Water Cap Works Rate		288	121	121	121	121
Base Fee		524	510	200	200	200
Additional water cost					320	640
		812	631	321	641	961

What does my meter look like?



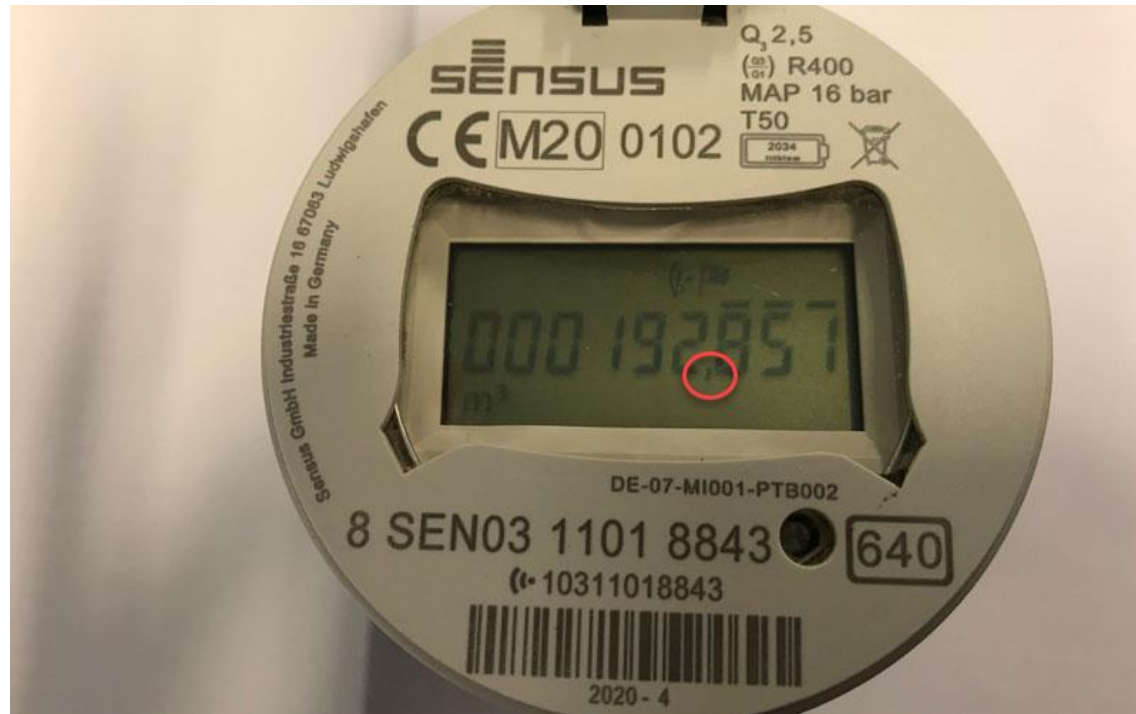
- Meters can be found in the water box outside your property
- Each property is individually labelled

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

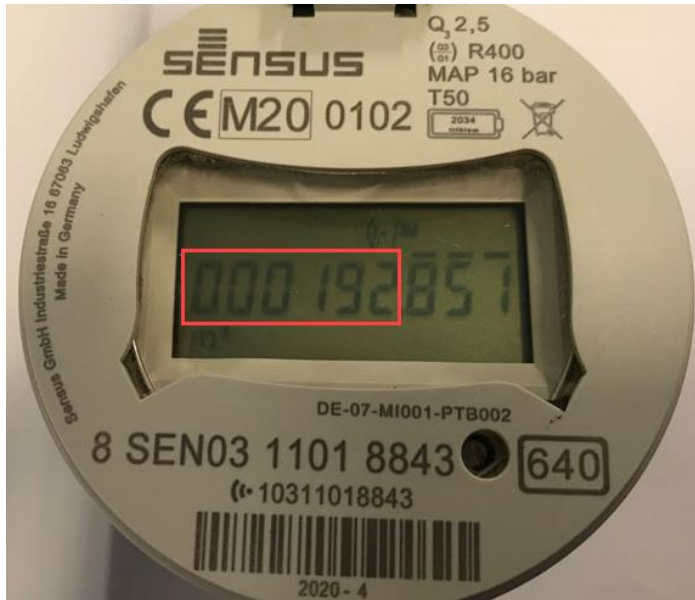


How to Read Your Meter

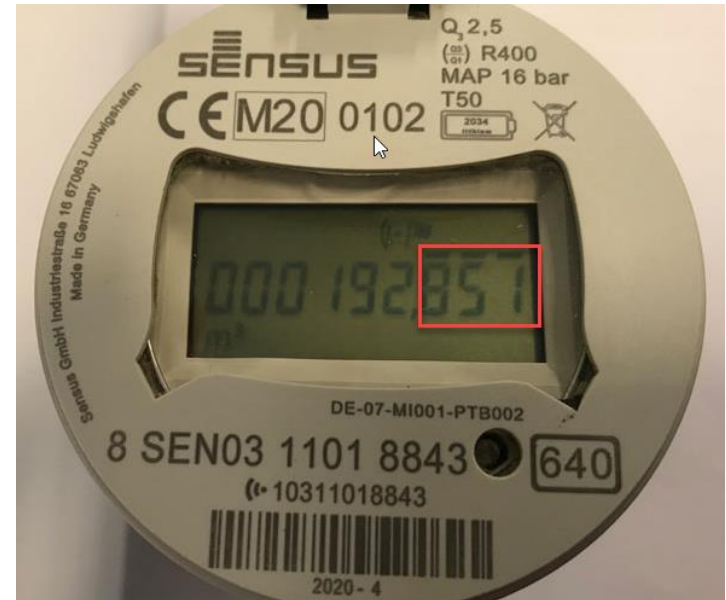


On the meter face there is comma as shown above

How to Read Your Meter



Digits before the comma



Digits after the comma

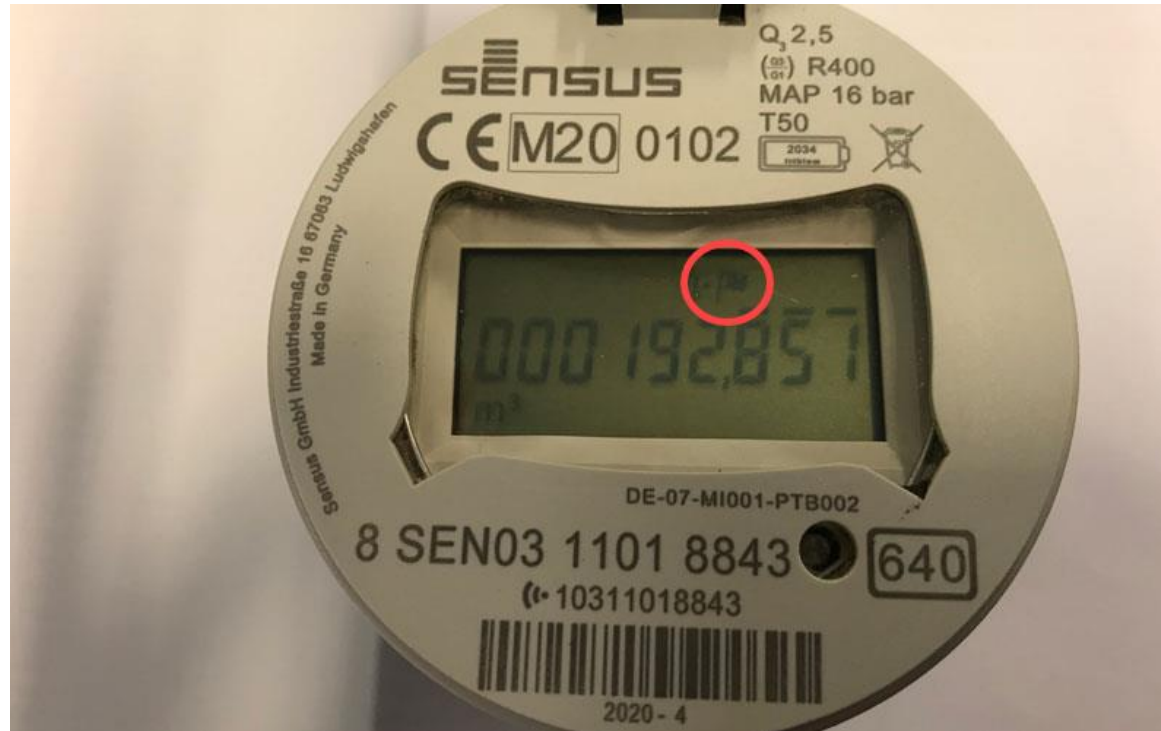
- The six digits before the comma are read in Cubic Metres [m³]
- The three digits after the comma are read in Litres [L]
- So this meter reads;

192 Cubic Meters and 851 Litres of water

Is my water usage normal?

- Havelock 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

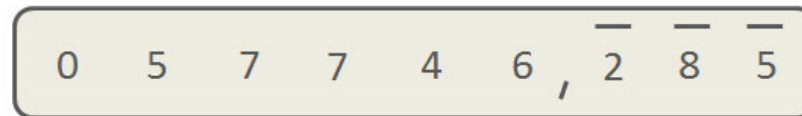
- If you see the flag symbol appear on the meter face you probably have a leak on your property and...

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 are 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



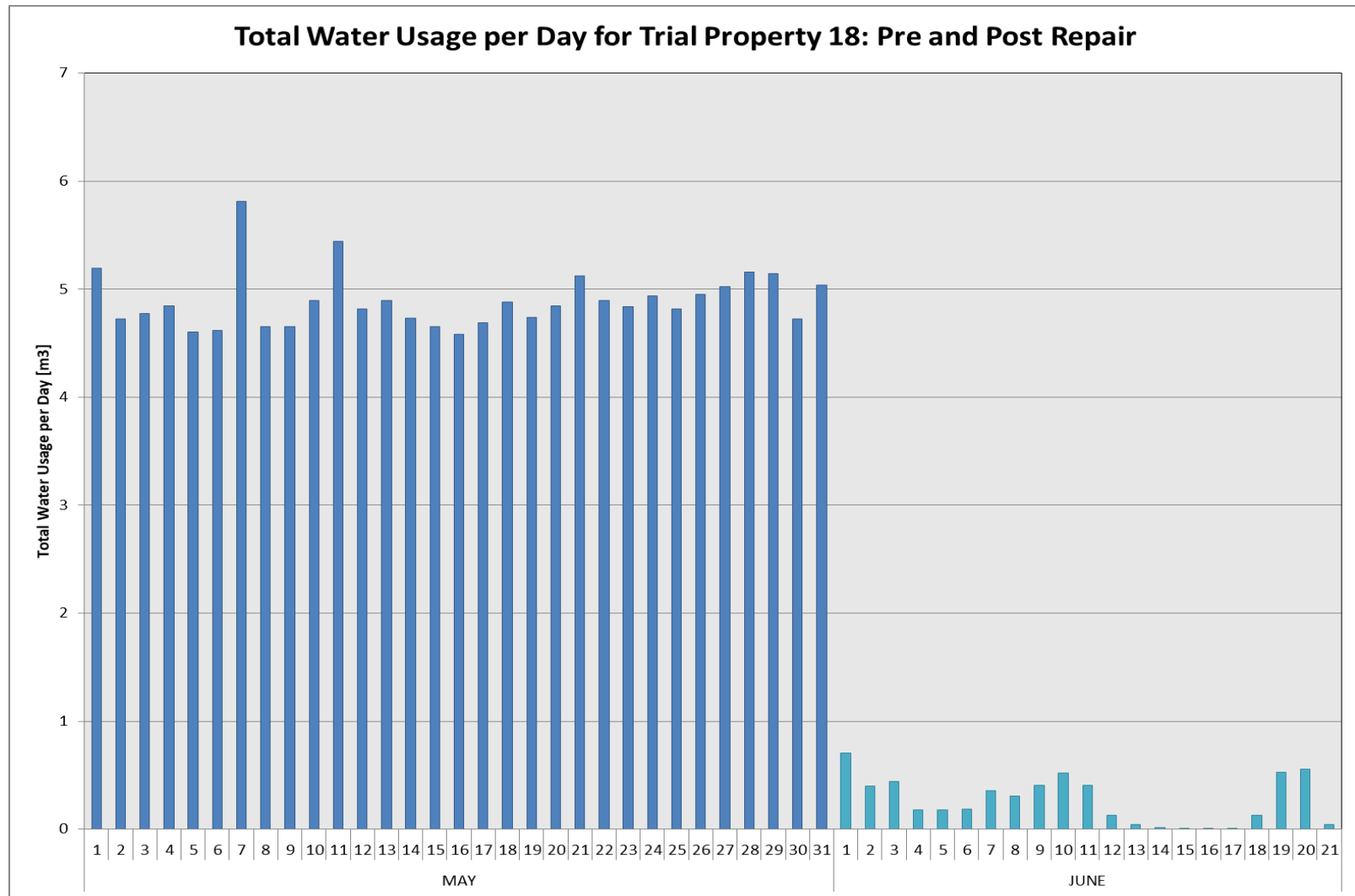
Dial Reading at 7:00am the next morning

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

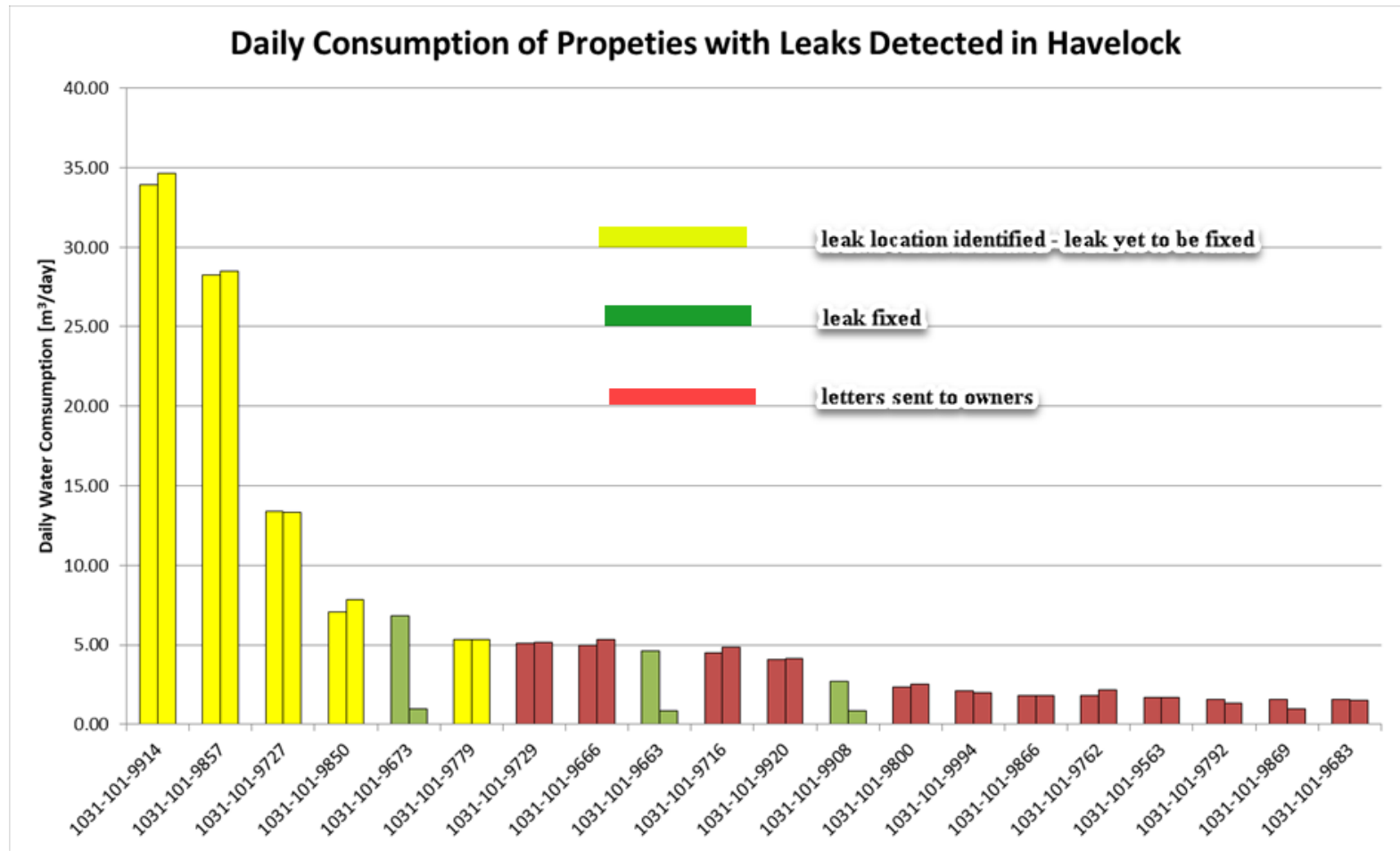
$$25 \text{ Litres} \div 9 \text{ Hours} = 2.8 \text{ Litres per hour}$$

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

Water consumption before and after leak repair



Property Consumption where leaks have been detected



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.



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

Any Questions?



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Capital Upgrades



Capital Upgrades – where are we at

- New reservoir (360 m³) construction contract awarded
 - Stainless Steel
 - Findlater Construction and Crown Sheet Metals
- New bore drilled
 - Test pumping
 - Water quality sampling to commence
- New Treatment Plant
 - Land purchase
 - Design

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/>