

Drinking water suites



Drinking water suite

To see if water is safe and aesthetically acceptable to drink.

Full Chemical analyses (based on MAV's and GV's), E.coli and total coliform bacteria



Limited drinking water suite

To test if water is safe to drink by testing for selected ions, E.coli and total coliform bacteria. Note: Water might not be aesthetically acceptable to drink.

Chemical analyses (based on MAV's), E.coli and total coliform bacteria



Micro drinking water suite

E.coli and total coliforms. Note: Water might not be safe or aesthetically acceptable to drink.

MAV (Maximum acceptable values):

These values are covered by the Drinking Water Standards for New Zealand and have a direct correlation on human health when the values exceed the limits.

GV (Guideline values):

These values are not covered by the Drinking Water Standards for New Zealand and do not have a direct correlation on human health when the values exceed the limits. However, these values do have a direct impact on the odour, taste and colour of the water and could also contribute to corrosion of pipes, hot water cylinders etc.



Turn-around time

We aim to have all microbial related reports sent to you within 2 working days. All other tests have a turn-around time of approximately 10 working days as these are currently contracted out to a partner laboratory, and we endeavour to have these reports ready for you as soon as possible after we receive the results.



Our Laboratory



Water Testing Hawke's Bay is one of New Zealand's leading regional bacteriological water-testing and analysis laboratories. With scientific rigour, reliability and consistency, we provide certainty and peace-of-mind when it comes to knowing what's in your water.

What set us apart are the four pillars of what we do: our people, with their passionate approach and depth of expertise in all things water; the superior quality of our field and laboratory equipment; our processes that follow best practice and strict protocols; and our credibility earned through accreditations and adherence to international standards within our operation.

Although we test most types of water, the majority of our work involves testing, analysing and reporting for these types of water:

- Drinking Water
- Surface & Groundwater
- Effluent & Trade Waste
- Swimming Pools & Spa Pools

Want to know what's in your water?

Please give us a call so we can help you find out.



watertesting
HAWKES BAY

www.watertestinghb.nz | 06 870 6449

1105 Plunket Street, St Leonards, Hastings 4120

PO Box 2552, Stortford Lodge, Hastings 4153

watertesting
HAWKES BAY

Drinking Water Analyses

- Prompt, Accurate, Traceable Results
- IANZ Accredited



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www.watertestinghb.nz

IANZ
ACCREDITED LABORATORY



Planning

Samples need to be tested for microorganisms (micro testing) **WITHIN 24 HOURS OF SAMPLING**: plan to take your sample as soon as possible before dropping the sample off at the lab or at your nearest courier depot.

NOTE: MICRO SAMPLES WILL BE REJECTED IF LAB RECEIVES IT AFTER THE 24 HOUR WINDOW, as the results will not be accurate.



Sample containers

Sample containers can be collected from the Water Testing HB laboratory or arranged with the laboratory to be dropped off to you via courier.



Sample labelling

Samples bottles should be clearly labelled with the location the sample is taken as well as the time the sample was taken e.g

*Mr. J. Smith,
Kitchen Cold Tap
23 January 2018 ~ 3.00pm*



Chilly bins and ice packs

Samples should be kept as cold as possible from the time sampled until the time they arrive at the lab to ensure sample integrity. The chilly bin should be labelled clearly with the address of Water Testing Hawke's Bay:

*Water Testing Hawke's Bay
1105 Plunket Street,
Hastings 4120*



Sample submission form

A sample submission form should be included with all deliveries so that we can check the sampling time and sample details. The details included on the Sample submission form will be used to prepare your report.

Sampling service

If you do not want to take the sample yourself Water Testing HB offers a sampling service, contact us for more information.



Where to take the sample ?

Since contamination of water can occur anywhere, from the water source, to the pipes in your home, it is recommended to take a water sample for drinking purposes from the tap you intend to use for this purpose.



Arranging for courier pickup

Arrange for courier pick up or drop at Courier Depot. Samples need to be received by the lab within 24 hours of sampling. **REMEMBER TO PACK PLENTY OF ICE.**

Typical contaminants

Storage tank and piping

- **Copper** from piping or storage tank
- **Zinc** Potentially from the bore casing
- **Iron** Potentially from storage tank
- **Other ions** from leaves, soil and other debris entering the tank
- **Micro-organisms incl. E.coli** Faecal matter of birds or other animals
- **Pesticides** Spray drifts (concentrations likely to be very low)

Rain Water

- **Copper** from piping
- **Zinc** from galvanized roofing material
- **TDS** from sea spray
- **Lead** from lead flashing and nail head on house roofs
- **Micro-organisms incl. E.coli** Faecal matter of birds, cats deposited on the roof
- **Pesticides** Spray drifts (concentrations likely to be very low)

Bore

- **Physical parameters** (pH, Conductivity, TDS, Alkalinity)
- **Ions** Health Concern (i.e. NO₃, Cu, Mn, B)
- **Ions** Aesthetic influence (i.e. Ca, Mg, Hardness, Na, K, Cl, SO₄, Fe, Zn)
- **E.coli** (not usually detected in ground water but can be detected in shallow bores)
- **Pesticides**

Sampling Procedure



- 1 **Choose suitable tap.** (preferably unpainted metal tap, that is not leaking).
- 2 **Remove any connectors from tap.** Plastic/metal connectors may house bacteria that could contaminate the water sample.
- 3 **Clean tap thoroughly.** Remove anything from the tap that may cause contamination or splashing. Use a clean cloth or paper towel.
- 4 **Open the tap slowly to maximum flow.** Allow tap to run for 2-3 minutes. Slowly turn tap off.
- 5 **Wash your hands thoroughly** with soap and water/ sanitise hands. This is to avoid possible contamination from your hands.
- 6 **Sterilize tap.** This can be done by flaming the end of the tap for at least 10 seconds with a gas burner, or wiping the tap with cleaning wipes (provided by the laboratory)
NOTE: Do not touch the tap after it is sterilised, or the inside of the lid, or the top of the bottle, and do not place the lid on the ground where it can be contaminated.
- 7 **Turn tap on medium flow** immediately prior to taking the sample(s) and allow water to flow for a few seconds. Don't change the flow rate while sampling as deposits may be dislodged.
- 8 **Open sample container** with one hand and hold the cap in the other.
- 9 **Fill the container** by placing the sample container immediately under the flowing water. Hold the lid open end downwards or to the side, avoiding any water splashing on the inside of the lid.
FOR CHEMICAL SAMPLES Fill to the top, trying to leave no air space.
FOR MICROBIAL SAMPLES Take a sample of at least 100ml but NOT exceeding 120ml, leaving an airspace at the top.
- 10 **Close the container** by screwing the lid tightly back onto the container.
- 11 **Repeat steps 8-10** for all sample containers you need to fill.
- 12 **Pack clearly labelled samples** in the chilly bin with ice and drop off at the laboratory or arrange for courier pickup.