Collecting a Drinking Water Monitoring Program
CHEMISTRY Sample

Sample Containers
Use two containers:
- One polyethylene screw-capped bottle capable of holding at least 250mL water, and
- One 250mL polyethylene screw-capped bottle with added acid preservative (5mL Nitric Acid 35% w/w with 0.14mL Hydrochloric Acid 17.5% w/w) as supplied by FASS.

Caution: Acid Preservative for Metals in Water
The acid preservative is corrosive. It can cause severe burns and eye damage and may cause respiratory irritation.
A Safety Data Sheet (SDS) is supplied with the acidified bottles. Read this SDS before using the bottles.
A Safe Work Practice (SWP) for handling the acidified bottles and collecting the sample is attached to these sampling instructions. Read the SWP before sampling.

Label
- Use a NSW Health barcoded label for the correct supply system, current year and sample type.

Allocated Chemistry sample
- Use a yellow label with a barcode beginning with 7.
- Using an indelible pen record the site code, time and date of collection on the larger label.
- If the system is fluoridated conduct a fluoride test on a separate sample and record the fluoride field result on the label.
- Place the label evenly around the non-acidified sample bottle (not on the lid) so that the entire barcode can be scanned at the laboratory.
- Attach the smaller matching barcoded label to the acidified bottle.

Repeat and Additional Samples
- Repeat sample: use a pink label with a barcode starting with 6.
- Additional sample: use a blue label with a barcode starting with 8.
- Record the site code, time and date of collection and fluoride field result on the label.
- Place the label evenly around the non-acidified sample bottle.
- Record the supply system code (2 letters followed by 2 numbers), and the sampling date and time on a plain label and attach it to the acidified bottle.
Collecting the Sample

- Flush the lines for at least 3 minutes before collecting the samples.
- Fill the non-acidified bottle to the brim.
- For the acidified bottle:
  - Do not rinse the bottle prior to taking the sample.
  - Fill the bottle to the brim, taking care not to overfill. Avoid splashing.

Packaging the Samples as Dangerous Goods

- Place the non-reactive absorbent mat/material into an insulated cooler.
- Place the samples into the cooler with sufficient freezer bricks to keep the samples cool (≤6°C) during transport. Ensure the acidified samples are packed so that they remain upright in the cooler and are prevented from moving during transportation.
- Include a copy of the Safety Data Sheet in the cooler.
- Pack the cooler into a box strong enough to withstand conditions normally encountered during transport.
- Attach a copy of the FASS Address Label to the outside of the box.
- Attach a “Dangerous Goods” (orange) sticker, a “Corrosive” sticker and a “This Way Up” sticker to the outside of the box.
- Complete a Dangerous Goods consignment form.
- Complete a Sender’s Declaration form for Dangerous Goods. The following information must be included:
  - Shipping name - Corrosive liquid, Acidic, Inorganic, NOS
  - Technical Name – Mixture of nitric acid and hydrochloric acid
  - UN Number – 3264
  - DG Class – 8
  - Packing Group – II
  - Sender’s full name address and telephone number
  - FASS address:
    480 Weeroona Rd,
    Lidcombe NSW 2141
- Dispatch the samples to FASS as soon as possible.