



Chlorination requirements for supplies of 50mm internal diameter (63mm external diameter) and above

We'll require you to disinfect your pipework prior to connection, under the Water Supply (Water Fittings) Regulations 1999 (S1 1999, 1148), to ensure there is no detriment to public health.

For further details, please refer to section G13.1 of the Guidance Notes to S1 1999, 1148, and to BS6700 (2006) and BS8558 (2015).

We are duty bound to protect our network, and therefore also require additional water quality checks to be carried out for turbidity, and for the chlorine level (after flushing). These results must be confirmed by the laboratory you use.

New supplies should be swabbed (where practicable), flushed, filled with chlorinated water not less than 50mg/l and allowed to stand for one hour. The chlorinated water should then be flushed out, the pipe refilled and a sample taken.

The pipework must be disinfected with a **hypochlorite solution**.

Please note: In line with best practice, once the pipework has been disinfected and positive sample results achieved, it is your responsibility to ensure the pipework is flushed through on a weekly basis, until we are able to make the connection to our network. If this is not carried out, we could require a further sample to be taken and even the disinfection process to be carried out again.

The following must be submitted to our office prior to the connection being made:

- A disinfection certificate in accordance with BS6700 / BS8558
- A method statement of the disinfection process carried out showing
 - 1) **Name of contractor**
 - 2) **Date of disinfection**
 - 3) **Diameter and length of pipe disinfected**
 - 4) **Source water used**
 - 5) **Swabbing and flushing performed prior to disinfection**
 - 6) **Disinfection chemical used (must be a hypochlorite solution)**
 - 7) **Chlorine level of source water**
 - 8) **Chlorine level after dosing**
 - 9) **Contact time**
 - 10) **Chlorine level after contact**
 - 11) **Chlorine level after flushing**
- The sample results from a UKAS-accredited laboratory, showing
 - 1) **Total coliforms per 100ml**
 - 2) **E.coli per 100ml**
 - 3) **Turbidity**
 - 4) **37°C colony counts per 1ml**
 - 5) **22°C colony counts per 1ml**
 - 6) **Total chlorine**

It is your responsibility to ensure that the disinfection company is aware of our requirements. If this procedure is not followed, we have a right to refuse the final connection, and the pipework must be re-disinfected to meet our requirements. Please note that we cannot begin the connection process until we have received these documents, complete with all information.

The disinfection certificate, the bacteriological sample results and the method statement should be emailed to developer.services@thameswater.co.uk.