

**Review of Procedures for Operation and Maintenance of the Distribution Network  
 Procedure and Practice for Flushing Small and Large Diameter Mains  
 Checklist for Assessment**

Water Company:

**SCOPE**

The procedure and practice is expected to deal with the flushing of mains both of small and large diameter with large diameter being considered as 200 mm (8 inch) or greater.

**GENERAL**

Is there a documented procedure for flushing small and large diameter mains (Yes or No)?

If not, go straight to BBV Assessment of Company procedure at the end of the checklist

*Note that Checklist 3 covers an assessment of **The Policy for the Pre-emptive Flushing of Mains and its Implementation**. Checklist 3 includes assessments covering pre planning, notification, and implementing and monitoring of the flushing programme. These assessment aspects are therefore not repeated below.*

Company document title:

Company document reference

Date when the document came into force

**CLASSIFICATION**

Does the procedure differentiate between small and large diameter mains (Yes or No)?

If so, what is the diameter threshold between small and large mains?  **mm**

Does the procedure set an upper limit on the size of main above which flushing is considered impractical (Yes or No)?

If so, what is the upper diameter limit?  **mm**

**LARGE DIAMETER MAINS**

The following is concerned with the procedure covering the flushing of large diameter mains - those of 200 mm or greater in diameter (or other diameter threshold that the Company may have defined).

Does the procedure require the use of computer modelling or other techniques to plan and assess the effectiveness of flushing (Yes or No)?

Does the procedure give guidance on the pipe velocity required to ensure flushing will be effective (Yes or No)?

If so, are the velocities related to the diameter of main (Yes or No)?

Does the procedure give advice on valving to concentrate flows increasing pipe velocities to the desired levels (Yes or No)?

Does the procedure consider the simultaneous use of two or more hydrants or washouts to achieve the desired flushing velocities (Yes or No)?

Does the procedure give the discharge rates required to achieve effective flushing for mains of different diameters (Yes or No)?

Does the procedure give analysis guidelines for testing whether the hydrant or washout can produce the required discharge (Yes or No)?

Does the policy give guidance on the timing of the flushing operation (day or night) to minimise potential discolouration problems (Yes or No)?

Does the policy include a written statement giving the timing and sequence of the flushing operations (Yes or No)?

Does the policy specify the duration that each hydrant or washout should be flushed (Yes or No)?

Where the analysis indicates that flushing is unlikely to be effective, does the procedure offer alternative methods that might be considered for removing deposits in the main (Yes or No)?

**BBV ASSESSMENT OF COMPANY PROCEDURE**

Does the Company have a documented procedure for flushing small and large diameter mains (Yes or No)?

If not, the recommendation is that a procedure should be drafted and the further assessment below is not required.

**Classification** - Does the Company procedure differentiate between small and large diameter mains (Yes or No)?

**Large diameter mains** - Is the Company procedure for designing flushing operations for large diameter mains considered satisfactory (Yes or No)?

If not, identify those areas where the procedure is considered deficient.

**BBV Quality Assurance**

Checklist completed by

Date

Checklist checked by

Date