

3.4.2 Bulk Fill Station

The Village operates a bulk fill station located north of the intersection between Main Street and Albert Avenue. The bulk fill station is coin operated and meter readings are not read. The interior piping is galvanized steel and fittings include a flow meter and double-check backflow preventer. Per Village staff, the bulk fill station operates on an open/closed system and flow is not regulated.

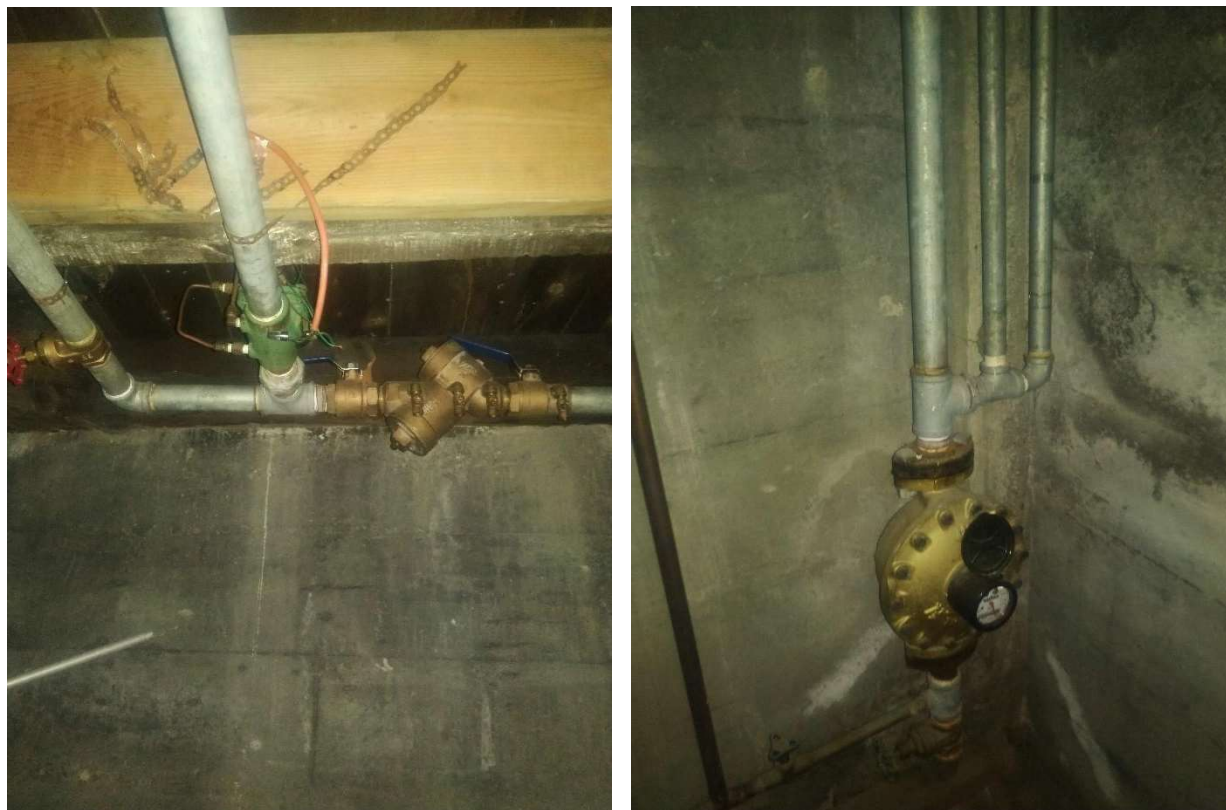


Figure 3.13 – Bulk Fill Station Piping

Galvanized piping is not recommended in potable water applications and should be replaced immediately. While replacing the piping, it is also recommended that a flow control device be installed so that operation of the bulk fill system does not negatively impact pressures in the distribution system. The Village could also explore improvements to the control and payment system for the bulk fill station in the future.

3.4.3 Hydraulic Analysis

A hydraulic analysis of the Village's potable water distribution system was completed using Bentley WaterCAD Connect Edition computer modelling software. The hydraulic model was created based on pipe size and pipe material information provided by the Village and collected during the hydro-excavations.