The data in this folder pertains to the paper Fish et al 2022, PLOS Water, "**Impacts of temperature and hydraulic regime on discolouration and biofilm fouling in drinking water distribution systems**".

Please see the paper for full method and data analysis details, as well as a detailed description of the sampling point nomencluture. Contents of this folder are labelled and organised to correspond to the results figures of the aforementioned paper:

**"Figure 3\_WQ responses SS.csv**"

This is a data file including the averages (av) and standard deviations (sd) plotted in Figure 3 of the paper. It includes Turbidity (ntu), Iron (fe), Manganese (mn) concentrations, for three hydraulic regimes: Steady State 0.1Pa (ss0.1), Steady State 0.2Pa (ss0.2), Steady State 0.5Pa (ss0.5). The inclusion of “\_2\_” indicates data from the second temperature of 16°C, if “\_2\_” is not in a column heading then data is from the 8°C experiments. The columns "Shear", "Shear0.1” and "flush", relate to the shear stress and flow rate of each of the flushing steps (1-7), for each regime.

This data was also used to calculate the AUC values in Table 2.

**"Figure 4\_WQ responses VF.csv**"

This is a data file including the averages (av) and standard deviations (sd) plotted in Figure 3 of the paper. It includes Turbidity (ntu), Iron (fe), Manganese (mn) concentrations, for three hydraulic regimes: Low Varied Flow (LVF or lvf), Steady State (SS or ss), High Varied Flow (HVF or hvf). The inclusion of “\_2\_” indicates data from the second temperature of 16°C, if “\_2\_” is not in a column heading then data is from the 8°C experiments. The columns "Shear", "Shear0.1” and "flush", relate to the shear stress and flow rate of each of the flushing steps (1-6), for each regime.

This data was also used to calculate the AUC values in Table 2.

**“Figure 5\_Biofilm cell volumes.csv”**

This is a data file including the cell volumes for biofilms sampled prior to flushing, following growth under different hydraulic regimes: Steady State 0.1Pa (SS0.1), Steady State 0.2Pa (SS0.2), Steady State 0.5Pa (SS0.5), Low Varied Flow (LVF), Steady State (SS), High Varied Flow (HVF). The temperature that the biofilms were grown under is indicated by “\_8\_” for 8°C experiments or “\_16\_” for 16°C experiments.