



Sample Points

- A. Equalising Tank
- B. DAF
- C. SBR Array
- D. UV
- E. Outlet
- F. Harvey Dam Discharge point

DRUM SCREEN
Physical filtration through use of a rotary drum screen filter, removing coarse solids from water

EQUALISING TANK
Storage tank used as a buffer to maintain steady flow through to the following water treatment processes

DISSOLVED AIR FLOTATION (DAF)
Pressurised air released into a flotation tank used to raise suspended matter, such as fats and oils, to the surface which can be skimmed off with an automated scraper. Clean water is allowed to pass through by a use of a baffle

SLUDGE DISPOSAL
Scum and other captured matter from the DAF scraper is captured in a skip which will be disposed of to a waste disposal facility. Sludge is inert so will not need any treatment before removal

SEQUENCE BATCH REACTOR (SBR)
Biological treatment used to remove nutrients, organic matter and other solids. Following the treatment, the batch is given time to settle and the clear, treated water at the top is transferred to the next step

UV TREATMENT
Water is sent through a UV treatment for the first stage of disinfection. The disinfection will remove *E. Coli*, Coliforms, Viruses and Protozoa that may be in the water

CHLORINATION
Sodium hypochlorite is dosed into the water and recirculated in a series of tanks to provide sufficient time for the final disinfection process to occur, and to provide a free chlorine residual to prevent growth of any microorganisms in the pipeline to Harvey Dam

HARVEY DAM
Once water quality is proven to be favourable, water will be pumped through a pipe network to be diffused into the Harvey Dam

STORAGE POND
Following the treatment, if the water quality is not within the range proposed by Department of Health and DWER in conjunction with Harvey Water, the water is diverted into a storage pond, where it will be transferred back to the beginning to be retreated.