



Waters Projects Update

Thanks to
Watercare Waikato

December 2024

Te Kauwhata Wastewater Treatment Plant

The installation of a Memdense cyclone system to improve MBR (Membrane Bio Reactor) sludge density has been completed.

Desktop training has been completed with on-site training in the operation to be completed in December.

The MABR (Membrane Aerated Biofilm Reactor) and MBR (Membrane Bio Reactor) blower pipework have been modified to provide an option for air wasting to improve the efficiency of blowers by reducing the turndown and increasing both the motor and blower speeds for improved cooling and lubrication factors.

Air wasted will be utilised in the pond aeration and may result in the existing (old) plant blowers being decommissioned at a later stage.

Three plant shutdowns were required to tie in new pipework.

The MBR membrane CIP (clean in place) and recovery cleans with sodium hypochlorite and citric acid processes have been completed.

Staff are being trained in these new processes and SOP's being reviewed.



Te Kauwhata - Blower pipework

Te Kauwhata Reservoirs

The structure is complete, with only the installation of the bypass pipeline north of the roundabout remaining. Currently, Wel Networks is working on the road and the final water main work is scheduled for completion early next year



Te Kauwhata Reservoirs - Fully operational

Ngaaruawaahia Pipeline

The Ngaaruawaahia main gravity sewer is complete, and the site compound has been demobilised and reinstated. Additionally, the Esplanade Waste Water Pump Station flows have been diverted to the new sewer. The Regent St Waste Water Pump Station pump upgrade and final flow diversion are planned for December.



Ngaaruawaahioa pipeline - A new pipe spool installed under the Waikato River Bridge, diverting the Esplanade WWPS flow to the new sewer.