

PROTECTING BALLARAT SOUTH'S SLUDGE PROCESSING PLANT AND PRE-FERMENTER

CASE STUDY



THE CLIENT

The Ballarat South WWTP is an advanced treatment system that discharges high quality effluent to the Yarrowee River.

OVERVIEW

A recent upgrade to the plant included the installation of a new HUBER Strainpress® Sludge Screen to process primary sludge from the settled in the primary clarifiers. The process includes a pre-fermenter to produce volatile fatty acids (VFAs) that feeds the main treatment process. The HUBER Strainpress® removes fine material and screenings prior to the pre-fermenter in order to ensure the pre-fermenter is free of such material that would otherwise cause it to be off line for cleaning.

Cleaning of the pre-fermenter increases the use of associated carbon dosing and cost.



Item	Value
Sludge Type	Primary
Max Capacity	25 m3/h
No. of units	1
Installed Power	3 kW

Key Benefits:

- Removal of fine material, screenings and plastics from the primary sludge screen
- Protection of the downstream sludge process with reduce maintenance costs, in particular to digesters and pre-fermenters
- Pressurised screen can be operated inline
- Proven in numerous sites across Australia

HUBER's Strainpress® is used to screen both primary and waste activated sludge streams. Its main application is to be installed upstream of an anaerobic digester to remove debris prior to the digester.

There are now 1200 Strainpress® units in operation, and we have 10+ systems installed across Australia.