

HUBER SCREW PRESS TECHNOLOGY PROVES EXCEPTIONAL AT PEMBERTON STP

CASE STUDY



THE CLIENT

Water Corporation's Pemberton STP was upgraded to include a new advanced biological treatment system using carousel technology.

OVERVIEW

Hydroflux supplied both the inlet works and sludge dewatering packages.

The sludge dewatering package was delivered as a skid to reduce site installation time. The skid included feed pump, control system, instrumentation, polymer make up unit and the HUBER RoS3Q Screw Press.

Why Screw Press?

The rise in the use of HUBER Screw Presses in last 5 years has been driven by the machine's ability to achieve equal performance to a centrifuge, but with an internal screw speed of 1RPM as opposed to 3000+RPM in a centrifuge



Item	Value
Max Capacity	3 m3/h
No. of units	1
Dry Solids	17.5% w/w
Capture	95%
Polymer Dose	10 kg/t

Key Benefits:

- High cake solids
- Lowest energy demand (10% of a centrifuge)
- Automatic Unattended Operation
- Max internal speed of 1RPM
- Lowest maintenance demand
- Full stainless steel construction
- Fully enclosed system

Automated Polymer Dose

The system includes an infrared solids density meter that is used to automatically regulate the polymer dose rates and sludge feed capacity.

This control feature results in consistent performance even if there is variation in the feed solids concentration.