

# OUTSTANDING SCREW PRESS PERFORMANCE FOR BRIBIE ISLAND STP

## CASE STUDY



The Bribe Island STP operated by Unitywater can process 5.8MLD of sewage.

In a recent upgrade by Hydroflux Epco Pty Ltd, the existing belt filter press was replaced with two new HUBER QPRESS Screw Presses.

The project also included the associated sludge pumping stations, polymer make up and dosing skids, control system, PLC and SCADA works.

Design, mechanical and electrical installation works were provided by Hydroflux Epco Pty Ltd as a turnkey solution.

The initial start up of the screw presses shows that the units can achieve 18%DS with 95% capture. This is significantly higher cake solids than the existing belt filter presses, which will result in a reduction in sludge transport costs for Unitywater.

### Key Benefits:

- High cake solids, less off site disposal costs
- 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

The screw press operates at a maximum speed of 1RPM. This means the machine requires a small drive to operate, when compared to high speed centrifuges, which operate at 3000RPM.

HUBER's QPRESS has been specifically designed to dewater waste activated sludge. The internal basket is a wedgewire profile and specifically arranged to suit waste activated sludge dewatering.

There are now 1200 QPRESS units in operation, and we have 20+ systems installed across Australia

Item	Value
Sludge Type	WAS
Max Capacity	34 m3/h
No. of units	2
Installed Power	4.4 kW
Dry Solids	18% w/w
Capture	
Polymer Dose	95% 10 kg/t