

ADVANCED SLUDGE THICKENING TECHNOLOGY FOR ONE OF AUSTRALIA'S LARGEST TREATMENT PLANTS

CASE STUDY



THE CLIENT

The Luggage Pt WWTP which is owned and operated by Qld Urban Utilities is one of the largest treatment facilities in Australia, and one of the most advanced due to its recycled water plant.

OVERVIEW

In a recent upgrade, the existing rotary drum thickeners were replaced by HUBER Rotary Screw Thickeners, for the processing of raw sludge.

Why Rotary Screw Thickener?

HUBER's Rotary Screw Thickener is not a traditional drum thickener (which is actually a rotary screen modified for thickening applications). The HUBER RST is purpose designed for primary and WAS thickening applications.

The machine consists of a stationary inclined drum and internal thickener screw. The screw transports the sludge from the feed to discharge zone, as it drains over the wedgewire drum.

Item	Value
Max Capacity	240 m3/h
No. of units	3
Dry Solids	7% w/w
Capture	95%
Polymer Dose	4 kg/t



Key Benefits:

- High solids discharged to digesters, increased efficiency and biogas production.
- Lowest energy demand
- Automatic unattended operation
- Intermittent washwater demand
- Max internal speed of 6RPM
- Lowest maintenance demand
- Full stainless steel construction
- Fully enclosed system

Performance Summary

HUBER RSTs have been operating in Australia for almost 20 years, in both primary and thickening applications.

The RSTs are fabricated in HUBER's state of the art 50,000 m2 manufacturing facility, located in Germany.