

HELPING GOSFORD CITY COUNCIL INCREASE PLANT RELIABILITY WITH SLUDGE SCREENING

CASE STUDY



THE CLIENT

Gosford City Council operates a number of sewage treatment plants, their largest being Kincumber STP that serves approximately 130,000 residents.

OVERVIEW

Sludge produced in this state of the art treatment plant is anaerobically digested prior to mechanical dewatering.

Recently a HUBER Strainpress® was installed to pre-screen the digester feed and remove fibre, fine screenings, plastics and hair that would have accumulated within the digesters, and cause blockages within the digester ancillaries such as heat exchangers and recirculation pumps.

“Standing next to the Strainpress® it is incredible to see the amount of fine material and hair that is removed. The plant has fine screens at the intake, which operate effectively, but fibrous material passes through these screens.

Several skip loads of screenings have already been removed, which otherwise would have been sent to the digesters” says John Koumoukelis, Director of Hydroflux.

Strainpress® removes fibre and fine material upstream of the bio-solids process train, reducing maintenance costs associated with digester cleaning, increasing reliability and performance. It also ensures that biosolids products used for beneficial reuse are of the highest quality and

are free from screenings and rubbish. It can operate on pure primary, secondary sludge or a mixture. It can also be used as pressurised primary sewage screen.

Features/Benefits:

- Keeps digesters clear of screenings accumulation
- Maintain optimum mixing
- Maintain gas production
- Less accumulation in floating roofs
- Significant reduction in maintenance
- Self adjusting against varying feed solids
- Proven in 1500+ installations



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QUALITY FABRICATION

Strainpress® is manufactured by HUBER Technology, of Germany. The unit is built to the highest German/EU standards at HUBER's 50,000 m2 production facility. The entire unit, including the internals is fabricated from stainless steel.

Item	Value
No. of Units	2
Processing Capacity per Unit	50 m3/h
Removal Rate	1-3 L/m3 sludge processed
Washwater Requirement	None