

TURNKEY BIOCAP[®] DIGESTER COVER AND ANCILLARIES FOR LIVERPOOL STP

CASE STUDY



THE CLIENT

Liverpool STP is owned and operated by Sydney Water. In 1999 the site was upgraded and the scope included the installation of a new anaerobic digester.

OVERVIEW

Hydroflux Epco equipment was installed as part of the upgrade. These works include the design, fabrication, installation and commissioning of:

- To Digester Cover
- Gas Lance Mixing System
- Sludge Heating System



The gasholder cover is designed to store the waste gas produced in the digesters. The cover is also designed to impart a pressure to the gas to enable reticulation of the gas to the appliances which will utilise the gas.

The SLM system is designed to effect the homogeneous mixing of the sludge within the digester to ensure uniform temperature throughout the sludge and also to prevent the formation of a surface scum layer.

The sludge heater system intended to heat the sludge in the digester such that the temperature stays in the optimum mesophilic range 32-35 Celsius.

Key Benefits:

- Extensive expertise in sludge digestion equipment with over 80 references.
- Turnkey package.
- Maintaining optimum digester temperatures.

Item	Value
BioCap [®] Diameter	19.8m
Mixing Type	LanceMix [®]
No. of mixers	10
Sludge Heater	7500 kJ