

ADVANCED GRIT WASHING EQUIPMENT FOR HALLS HEAD WWTP

CASE STUDY



THE CLIENT

The Edna May Gold Mine is an open pit gold operation located in Western Australia. Its annual production rate ranges from 66koz to 99koz.

OUR SOLUTION

Sewage from the site and nearby town is treated in a biological treatment plant. As part of a recent upgrade, a new pump station was installed.

Hydroflux Epco were contracted to supply a screening technology to remove gross solids from the raw sewage stream, to protect the downstream process from rag accumulation.

A HUBER RoK4 Pump Station screen was chosen to be



installed at the inlet to the bioreactors. The HUBER RoK4 is a vertical screen that consists of perforated basket, vertical screw, integrated screenings compaction and discharge chute.

The perforations provide a high screenings capture rate. The vertical design of the screen means that the technology can be installed into sewage pump stations.

OUTCOME

This results in the sewage being screened prior to pumping to the plant, leading to a reduction in capital costs associated with building an inlet works, and also the transfer pumps are protected from solids.

The integrated screenings wash and compaction zone is driven by the main drive, so the system provides screening, transport, washing and dewatering in a single mechanism.

All wetted parts are fabricated from 316 stainless steel. Operation of the internal screw is based on level control, which results in intermittent operation and a reduction in operating and maintenance costs.

Item	Value
Peak Capacity	25L/s
Basket Diameter	300mm
Screen Aperture	3mm
Screen Aperture Type	Perforations
Materials	304SS