

THE LARGEST GRIT WASHING AND DEWATERING FACILITY IN AUSTRALIA ENTRUSTED TO HYDROFLUX EPCO

CASE STUDY



THE CLIENT

The Malabar STP operated by Sydney Water is one of the largest sewage intakes in Australia. Recently the plant was upgraded as part of a reliability project.

OVERVIEW

Hydroflux Huber were awarded a contract for the supply of HUBER RoSF4 Grit Washing Classifiers, to wash and dewater the grit captured in the plant's longitudinal grit traps.

Based on the outstanding performance of HUBER's installations at Bondi STP, Nth Head and Warriewood, Sydney Water entrusted the award of their largest grit washing system to Hydroflux Epco.

The benefits of the technology include:

- Driest grit produced, 90% dry solids
- Lowest organic content
- 50% Reduction in truck movements and disposal volumes
- NSW POEO compliant



- Fully enclosed and guarded
- All stainless steel fabrication

Grit is coated in an organic layer that even influences the apparent density of the particles. To remove this organic material, a rigorous grit washing system is required to achieve the separation of organic from the grit particles.

HUBER invented the fluid bed concept back in the 1990's to counteract increased disposal costs, and since then over 1500 Grit Washers have been installed worldwide.

The grit can even be used to blend in with road base, hence allowing a sustainable reuse of this by-product.

In Australia, there are over 25 references sites for this advanced grit washing technology. The range includes a number of sizes to cater for small, medium and large treatment plant capacities.

Item	Value
Max Capacity	30 L/s per unit
No. of units	6
Dry Solids	90%
Organic Content	<2%