



## Shoalhaven Water – 15 Tonne Pump and Motor Overhaul

### OVERVIEW

Burrier Pump Station houses two critical Thompson-Byron Jackson Vertical Split Case Pumps fitted with 1950kW Toshiba motors that supply raw water via a 25km pipeline to the storage dam at Bamarang. From there the water is processed for use within the Shoalhaven local government area.

In February 2022 a tender was released by Shoalhaven City Council for the refurbishment of the #2 Pump and Motor in which Integrity Pumps and Engineering were the successful bidder.

The scope included removal of the pump and motor in conjunction with Shoalhaven Water, transportation to and from site, inspect and repair internals of pump, apply wear coating, replace wear rings, bearings and mechanical seal followed by installation.





## Burrier Case Study



### Objectives

The goal was to safely remove/install and transport the pump, disassemble with a high attention to detail to allow us to reclaim the pumps performance and ensure a reliable service life for many years to come. All of this needed to be achieved whilst maintaining clear communication channels with Shoalhaven Water to ensure we met their needs and time frame.



### Challenges

Works were scheduled to be completed within a 3 month period during off peak season so there was very little room for delays. Safe handling of a pump that weighs 9 Tonne and a Motor that weighs 6 Tonne. Transportation to and from site along remote dirt roads with a few sharp bends. Reclaiming and coating of severely eroded internal surfaces.



### Solutions

With some precise planning, efficient collaboration with all the key stakeholders and experienced technicians, the pump and motor were handled safely, repaired within the off peak season time allocation and is operational with an increased flow rate of 1050L/s (this is about a 10% pick up on the performance prior to the overhaul).

Peter Clark and the greater team at Shoalhaven Water were a pleasure to deal with and aided the smooth execution of this overhaul.



“Integrity pumps kept us informed during the entire pump overhaul process on the progress of the job and were easy to deal with.”

Peter Clark  
Co-Ordinator - Pump Fitters  
Shoalhaven Water

