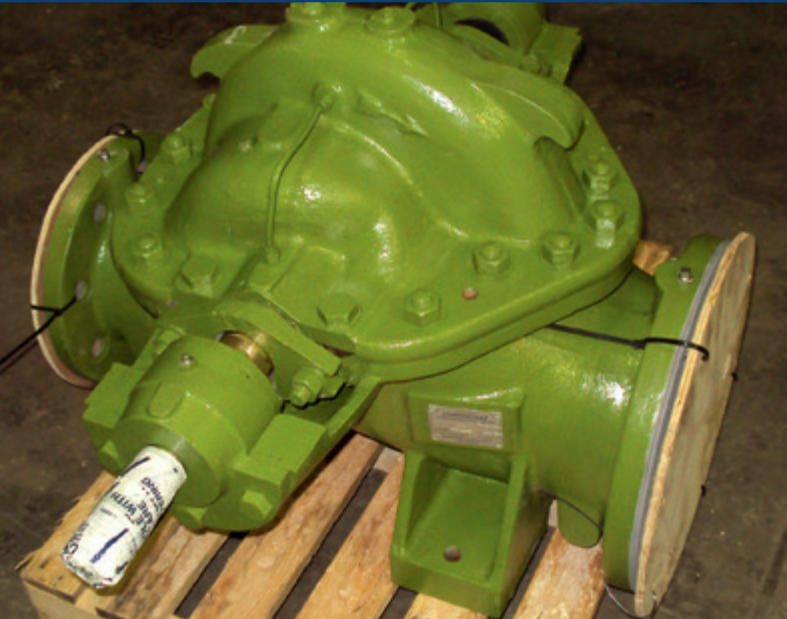


## CASE STUDY: 005

# HSC PUMP REFURBISHMENT



### The Industry

Water Supply and Treatment

### The Challenge

The client, a key figure in the water industry, had serious concerns about a badly deteriorated HSC Pump. Prior to entering into the costly process of scrapping this key piece of plant and replacing it with new, the client sent it to Corroserve for a free no-obligation 'Strip & Report'. The subsequent report highlighted in detail the elements of the pump and impeller that required rebuilding, replacing or cleaning and as a result of this the client contracted Corroserve to proceed with the work.

### The Solution

- The stripped pump casing and impeller were blast cleaned to Sa2.5 internally and externally which identified areas of serious internal pitting and erosion.
- Once pre-machined, the casing internals and the impeller were coated with **Corroglass 600 Series** system which, combined with our specially developed in-house engineering expertise, meant that the damaged areas were rebuilt.
- Following an adequate curing period, the refurbished impeller was balance checked in house to BS6861 – g2.5.
- The pump casing externals were then coated with **Plasmet ZF** and **Corrothane AP1** external coating system.
- A new shaft, sleeves and casing rings were manufactured and machined. The pump was reassembled using new fasteners, gaskets and packings.

### Results & Benefits

This full pump refurbishment was completed at a fraction of the cost of purchasing a new unit. The life span of the reconditioned pump, which otherwise would have been scrapped, has now been extended by in excess of 10 years.

### Credentials

Pump and impeller coating and refurbishment is a key element of the Corroserve service stream. With our second-to-none engineering, coating and test facilities, we are able to provide a one stop shop for our clients – demonstrated by their continued business for in excess of 30 years.

**Corroserve** is a member of the **Corrosioneering Group** which also includes specialist paints and coatings manufacturer – **Corrocoat** and research and development division – **Corrolabs**. Working together, we provide the ultimate 'one-stop-shop' for our customers.

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