

Mechanical

The staff in the Mechanical Workshop at Water Engineering Technologies are the leaders in pump refurbishment, iron bacteria control and water meter testing. Larger pumps and valves can be overhauled and repaired at significantly lower cost than replacement with new units.

Pump Refurbishment

The workshop is able to repair, overhaul, refurbish or enhance the performance of most water or wastewater pumps or valves. We are experienced in modern maintenance methods to extend the time between overhauls.

Improvements include:

- Efficiency enhancements
- Corrosion and cavitation protection
- Reseating and rebuilding of impeller seal rings
- Repair of stuffing boxes, neck bushes, shafts and casings
- Rebuilding pump impellers and casings

Epoxy Coating

The use of epoxy coating and the modification of pump units to accept mechanical seals increases pump efficiencies and assists with the drive to extend overhaul periods.

We use modern products and methods and our processes are constantly being evaluated and used in the development of new products. This system has meant that overhaul periods have increased from 2-3 years to 8-10 years. We only schedule and overhaul after rigorous performance monitoring and where significant efficiency gains and performance reliability improvements can be achieved.

Iron Bacteria Control

The fouling on ground water or drainage pumping systems by iron bacteria is a worldwide problem resulting in impaired hydraulic performance, increased pumping costs and corrosion.

Our Technique:

SA Water has patented a technique involving in-situ generation of chlorine by electrolysis of ground water. This technique has proved to be very effective in controlling iron bacteria. Some bores which would have previously lost up to 45% of their flow within 50 days of the installation of a new pump have now operated continuously for over 3 years with no loss of flow due to iron bacteria.

Electrolytic chlorination is also a safe and effective method for disinfection of water supplies, particularly in remote location where it is not practical to use chlorine gas or hypo chloride chemicals.

Meter Testing

The Mechanical Workshop can offer a full range of meter repair and accuracy testing for water meters from 80 to 375mm.

Our services to you include:

- Meter testing
- Meter calibration
- Accuracy certificates

Size Range

80mm – 375mm

Flow Rate

2 l/s – 200 l/s

For further information please contact

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