



Utilities & Infrastructure



PRACTICAL[®]
ENGINEERING

SEQWATER LIME DOSING PUMP SYSTEM AT MUDGEERABA WTP

Practical Engineering was engaged by Seqwater for the design, manufacture and installation of three (3) replacement lime dosing pump systems at the Mudgeeraba WTP, to replace the pre-existing progressive cavity pumps with peristaltic pumps.



Works included the design for functional specifications, durability and ease of maintenance, the removal of old pumps, the installation of new pumps, decontamination of site, and testing and commissioning of the new lime dosing pump systems.

Practical Engineering added significant value to the project for Seqwater by sourcing common pumps which minimise the number and cost of spare parts inventory, by investigating alternative flow switches and flanged removal of flow switches for ease of maintenance, by installation of hose burst indicator switches and by implementing a skid-based design based around simple operator installation and cleaning, taking into consideration ergonomic and manual handling requirements.

Services and outcomes delivered:

- Pumping system design
- Piping system design
- Dosing system
- Process and Instrumentation
- Mechanical and Structural Design

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