

# Work Profile

## Remote Waste Water Treatment Plant PVC-U Supply



**A** The Pump Container — The container houses the permeate pump skid, chemical dosing tanks and dosing pumps. Ferric chloride and sodium hypochlorite are being dosed for the site and batching sodium hypochlorite and citric acid for membrane cleaning cycles.

**B** The Permeate Pump Skid – The pumps draw permeate from membranes and pumps them to a treated effluent storage tank. Chlorine and turbidity are both monitored and three way valves will send any non-compliant effluent back to the process.

Fusion were pleased to supply piping system products for the construction of a wastewater treatment plant (WWTP) in remote Australia.

The piping system chosen for this project was Schedule 80 PVC-U as it is recognised around the world as a superior, reliable piping solution. In this instance, ABS did not provide the chemical resistivity required and installation times for PE would have outweighed potential savings on material.

Fusion offers an extensive range of fittings and accessories, allowing this client to continuity—throughout the plant's long lifetime—offset the risk of using incorrect solvents and glues.

The remote location of this WWTP leaves no room for pipework failure; as it's critical for the maintenance of up to 2,500 construction beds on site. Georg Fischer PVC-U has superior solvent weld strength and reliability: for that reason,

it's used internally, externally and below ground throughout the entire plant.

Fusion were proud to supply PVC-U piping systems products and accessories for this client.

In this example, Fusion only provided supply of PVC-U pipework necessary for the project, however our capabilities extend beyond supply and include sheet plastic fabrication and site services / installation.

### PVC-U

#### Temperature Range

+ 0°C – 60°C

#### Pressure Rating

+ 0 – 15 Bar

#### Joining Technology

+ Solvent cement

#### Main Applications

- + Water treatment
- + Chemical process industry
- + Shipbuilding
- + Utilities

