CSM[®]

» Sewage Water Reclamation



Illawarra Wastewater Reclamation Plant Wollongong, Australia

Plant Information

 APPLICATION Water reclamation to produce process

water for copper refinery

• RAW WATER Secondary effluent with industrial

wastewater

• PERMEATE CAPACITY 20 MI D

 PRETREATMENT Submerged MF membrane system

• RO MEMBRANE TYPE Fouling Resistant RO membrane

RF8040-FFⁿ • RO MEMBRANE MODEL

 RO SYSTEM ARRAY 28:12:6 (Single pass, 3 array, 7 elements

per pressure vessel)

• 0EM Veolia Water Solutions & Technologies Australia

 INSTALLATION August 2007

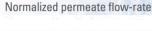


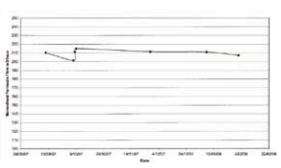
General Information

This system was built in November 2005 for Sydney Water. It was observed that there were difficulties in reducing the permeate flow due to high levels of organic foulants such as aromatic rings. It took only six months to reduce the flow by half of the initial permeate flow. To solve this problem, four types of elements from different manufacturers were tested at the site. Pilot test results showed that CSM's fouling resistant RO membrane, RE8040-FEn, was most effective in increasing permeate flow showing minimum levels of fouling. Since being installed in August 2007, the RO systems are operating with no reports of technical issues. The amount of CIP was also decreased from every two weeks to taking place every four to five months.

Technical Information

(refer to graph)





Pilot test results

