

Curlewis Golf Club Water Reclamation Plant (Sewer Mine)

Bellarine Peninsula - Victoria

Water Treatment Solution Profile



Purpose of installation

Situated on the picturesque Bellarine Peninsula south west of Melbourne, Curlewis Golf Club have become the first in Victoria to install a 'sewer mine' in response to prolonged drought plus water restrictions having a detrimental impact on their course conditions and subsequently membership numbers.

The plant collects sewer from the nearby Barwon Water rising main, and produces water to class 'B' quality, to allow year round supply of water.

The project was undertaken with the assistance of Barwon Water and the Victorian State Government.

Use for treated water

Treated water is used exclusively for golf course irrigation.

WJP Solutions' role

Working with the club, their advisors and Barwon Water, WJP Solutions provided a turn-key design and construct solution for the plant, including provision of all engineering design, construction documentation and building permits, prior to undertaking the civil and building work, as well as fabrication, installation and commissioning of the plant.

Technical specifications

Stand Alone Water Treatment Plant – (Sewer Mine)

System design capacity - 250,000 litres per day

Principal elements of the treatment process:

- Inflow capture system (in conjunction with authority system)
- inlet / screening system (screw screen compactor)
- balance tank (in-situ concrete – in-ground)
- bio-reactor tanks (precast concrete)
- membrane operating system (housed in precast concrete tank)
- chlorine disinfection system
- treated water storage tank (poly-tank for short term prior to distribution to bulk storage tanks)
- full PLC / SCADA automation system inc. remote monitoring
- interface with Barwon Water telemetry control system
- automated sludge removal system (to sewer)
- purpose build metal shed to house equipment and controls
- All associated civil works



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