



Tooleybuc's cost-effective ultrafiltration system, top and floods in the Norther Rivers District, below

# From Drought To Flood

CST Manages Water in Australia's Harshest Conditions

**D**orothea Mackellar summed up Australia's climate beautifully with the opening lines of *My Country*: "I love a sunburnt country, A land of sweeping plains, Of ragged mountain ranges, Of droughts and flooding rains." And one company that know these climactic extremes to be true is CST Wastewater Solutions, whose advanced technologies are helping to drought-proof communities and at the same time protect them against the impacts of flooding.

In the first case study, Wakool Shire Council was concerned about the declining quality and quantity water resources, especially during times of drought or dry weather. They decided to install a CST ultrafiltration system in their plant at Tooleybuc, which not only improved the quality of water, but also required less maintenance than the old plant.

In the second case study, Richmond Valley Council upgraded to a finer screening at their Sewage Treatment Plant, which reduces blockages and allows for a more efficient treatment with less ongoing maintenance. It was a fortuitous upgrade for Richmond Valley, which received an intense storm just days after the project was completed.

The following text is a detailed account of each case study.

## Drought Challenge: Tooleybuc NSW

Municipal councils all over Australasia are seeking optimum ways to address challenges posed by water resources declining both in quantity and quality under pressure from local populations and the needs of industrial and agricultural users.

Such demands are compounded further as environmentally and health-aware public authorities simultaneously seek to deliver quality water services while playing their part in conservation by making best use of their areas' shared water resources.

One council that has successfully used advanced ultrafiltration technology to deliver a high standard outcome for its district is Wakool Shire Council, which draws its water from the Murray River and treats it in the small town of