CASE STUDY

PROJECT	WATER PURIFICATION FOR HYDROPONIC FARM
PRODUCT	Brackish Water Reverse Osmosis (BWRO) and Multimedia Filtration (MMF)
INDUSTRY	Food and Beverage
LOCATION	Northern Rivers Region, New South Wales

BACKGROUND

A new specialised cultivation facility in the Northern Rivers region of NSW required highly purified water suitable for their hydroponically grown medicinal crops. MAK Water was engaged to provide a turnkey solution for a new water treatment plant including design, manufacture, commissioning, operator training and full service and maintenance.

MAK Water was selected based on our extensive experience in providing bespoke design, manufacturing, and support packages for new water treatment plants.

SOLUTION

Brackish Water Reverse Osmosis (BWRO) plant with DMI-65 loaded Multimedia Filtration (MMF) plant for removal of iron & manganese. Engineered to treat 50 m^3 per day of surface dam water and bore water for onsite irrigation. Both plants were conveniently packaged onto a single skid.

Skid mounted BWRO & MMF plant

MAK WATER KEY SOLUTIONS

- Iron and Manganese removal from feed water
- Oil cartridge filtration to remove hydrocarbons present in feed water
- Reverse Osmosis high quality water output
- UV disinfection targeting virus log reduction
- Ongoing service and maintenance agreement to manage plant operations

RESULTS AND BENEFITS

- **Reliable and Consistent Treated Water.** Produced water guaranteed to be highly purified from chemical and biological contaminants
- **Technical Support.** Expert consultation provided to all parties throughout the process and ongoing plant service and maintenance by MAK Water
- **Turnkey Solution.** Complete bespoke design, manufacture, and commissioning package
- **Fast Delivery.** The manufacturing process was fast tracked to achieve client project timeline

RO vessel on rear of skid