

CASE STUDY

PROJECT HOT SPRINGS FILTRATION PLANT

PRODUCT Multimedia Filtration (MMF)

INDUSTRY Tourism and Leisure

LOCATION Western NSW



BACKGROUND

An accommodation and wellness centre engaged with the local council and agreed to improve the quality of the water spent from their hot springs prior to discharge into the environment.

To meet the stringent log reduction parameters for water treatment, a process solution incorporating a containerised Multimedia Filter (MMF) with validated UV disinfection was implemented. MAK Water worked with the client to understand their concerns regarding rainfall ingress and installed a cost effective integrated manual change over line to allow the client to perform a rainwater first flush. The solution enabled the client to meet their sustainability goals and local council requirements.

This is the second plant that has installed MAK Water for similar applications for this client as it works to reduce its environmental footprint. The containerised plant reduces install time, removes the need for additional shelters and improves the longevity of the plant in harsh operating conditions.

SOLUTION

Containerised Multimedia Filter (MMF) to treat 600 m³/day of groundwater for discharge to environment.

MAK WATER KEY SOLUTIONS

- Containerised plant with non-slip flooring and internal air conditioning
- Integrated validated UV system to further treat the filtrate to meet stringent water quality targets with qualified log reduction values
- Ongoing technical support provided to assist through peak periods with quick turnaround times to maximise plant efficiency.

RESULTS AND BENEFITS

- **Portability:** Side-opening container offering accessibility in a standard road-transportable package for rapid deployment
- **Turnkey Solution:** Complete package of bespoke client design for plug and play deployment to various sites
- **Technical Support:** Expert advice and consultation with all parties throughout the process
- **Plant Reliability:** The high-quality equipment and quality manufacturing provide reliable in field operation with minimal maintenance.



Containerised Multimedia Filter (MMF) plant



MMF filtration plant in the testing bay at the MAK Water factory