

Feilding Wastewater Treatment Plant UV Upgrade

FILTEC
Making Water Safer

Manawatū-Whanganui, New Zealand

Project Snapshot



Client: Manawatū District Council



Capacity: 1,250 m³/hr peak flow



Technology: TrojanUV3000Plus



Treatment Target: 50 E. coli per 100 mL



Completion: 2026

Project Outcomes

- ✓ Validated wastewater disinfection performance
- ✓ Peak treatment capacity of 1,250 m³/hr
- ✓ Two-bank operational redundancy
- ✓ Reduced sleeve cleaning requirements
- ✓ Ongoing local servicing and technical support

Validated Wastewater Disinfection Across Changing Flows

Manawatū District Council required a modern UV system to replace ageing equipment at the Feilding Wastewater Treatment Plant. The upgrade needed to maintain reliable E. coli reduction across changing flows while integrating with the plant's existing gravity-fed channels.

FILTEC supplied and installed a TrojanUV3000Plus open-channel system designed to treat peak flows of 1,250 m³/hr. Two UV banks, comprising 132 low-pressure amalgam lamps, provide a validated dose of 30 mJ/cm² together with operational redundancy.



Automatic lamp dimming and bank control match power use to treatment demand, while Trojan ActiClean-WW chemical and mechanical cleaning helps maintain sleeve performance and reduce manual intervention.

Following commissioning, FILTEC provided operator training and continues to support the plant through specialist servicing, preventative maintenance and access to replacement lamps and critical spare parts. The result is a proven, efficient treatment barrier built for dependable long-term performance.