






Roots Street Water Treatment Plant

Feilding, Manawatū, New Zealand

FILTEC

Making Water Safer

Project Snapshot

-  **Client:** Manawatū District Council
-  **Capacity:** 5 MLD (60 L/s)
-  **Technology:** Two-Stage Cartridge Filtration, UV Disinfection, Chlorination, Fluoride Dosing
-  **Source Water:** Deep Bore Water
-  **Completion:** 2025

Project Outcomes

- ✓ Independent bore-fed supply improving network resilience
- ✓ Multi-barrier protozoal and bacteriological protection
- ✓ 500 m³ treated water storage
- ✓ Integrated civil, mechanical and electrical delivery
- ✓ Automated operation with remote monitoring

Turnkey Multi-Barrier Treatment Plant for Feilding

Manawatū District Council required a new independent bore-fed supply to strengthen Feilding's water network resilience and reduce reliance on vulnerable stream crossings.

FILTEC designed and delivered a turnkey multi-barrier treatment plant incorporating two-stage cartridge filtration (5 micron followed by 1 micron), UV disinfection and chlorine residual dosing, with integrated fluoride dosing and automated control systems.



The scope included installation of a new deep bore pump system, construction of a 500 m³ treated water reservoir providing contact time and operational buffer, booster pumping configuration, chemical storage facilities, and full civil, mechanical, electrical and process integration. Mechanical assemblies were prefabricated where practical to enhance quality control and reduce onsite programme risk.

Comprehensive commissioning verified filtration performance, disinfection dosing and system automation prior to handover. The completed facility provides a secure, resilient bore-fed supply aligned with Feilding's long-term growth planning.