Treatment process for Purified Recycled Water (PRW)

Sydney WAT&R



Removes microorganisms, suspended particles, and large molecules

Removes viruses and most chemicals

Eliminates any remaining chemicals

Reverse osmosis

UV disinfection and

advanced oxidation

Step 1

Homes, businesses and industry

Water is used in kitchens, showers, toilets and washing

Step 2 Water Resource

Recovery Facility

Wastewater is treated through multiple processes to produce recycled water

Step 3

Purified Recycled

Water Plant

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Ultrafiltration

Reverse Osmosis

UV+ Advanced Oxidation

Chlorination

PRW

Step 4 Dams and reservoirs

PRW is blended with raw water in a natural waterway

Step 5

Water Filtration Plant

Water is then filtered and chlorinated before it is added to the drinking water network. This water meets the Australian Drinking Water Guidelines.

Ensures both the water and pipes are free from any remaining microorganisms