

Perth's Groundwater Replenishment Scheme — Purified Recycled Water Recharging the Leederville and Yarragadee Aquifers (Australia)

PES & Nature-Based Solutions · Good practice · Australia

Quality score: 47/100

Evidence strength: Observational / pre–post

Summary

Since 2017 WA's Water Corporation has purified Beenyup wastewater via ultrafiltration, reverse osmosis and UV, injecting it into the Leederville and Yarragadee aquifers — passing 100 billion litres recharged by 2025 as Perth's groundwater has fallen up to 10m since 1980.

Key dimensions

Dimension	Score
Biodiversity — conservation / improvement, evidenced	0/3
Carbon — sequestration / storage, evidenced	1/3
Water & soil — retention, infiltration, erosion control	3/3
Fire resilience — risk reduction, evidenced	0/3
Governance, certification & transferability	3/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-12

[Water Corporation \(Western Australia\)](#) — accessed 2026-09-12

[Water Corporation – Recharge record announcement](#) — accessed 2026-09-12

[Smart Water Magazine coverage](#) — accessed 2026-09-12

Cite this — Evidoria. *Perth's Groundwater Replenishment Scheme — Purified Recycled Water Recharging the Leederville and Yarragadee Aquifers (Australia)*. Persistent ID: 92b6d440-dd7b-4dc8-965a-a9b00e361896.