Household-Scale Constructed Wetland for Greywater Reuse — Noungou, Burkina Faso

PES & Nature-Based Solutions · Good practice · Burkina Faso

Quality score: 27/100

Evidence strength: Cautionary / limited

Summary

A vetiver-planted constructed wetland piloted for one Sahelian household in Noungou, Burkina Faso removed over 90% of organic matter and met WHO pathogen limits for irrigation reuse — a low-cost rural model, though evidence so far covers one household over four weeks.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-08-27

Institut International d'Ingénierie de l'Eau et de l'Environnement (2iE) — accessed 2026-08-27

MDPI Water — Development of a Constructed Wetland for Greywater Treatment in Rural Burkina Faso — accessed 2026-08-27

PANGAEA dataset — Noungou greywater constructed wetland data — accessed 2026-08-27

IWA Publishing — Constructed wetland technology for Sahel region household greywater — accessed 2026-08-27

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