

Clean Water Services Thermal Trading — Riparian Shade Planting Credited Against Wastewater Heat Discharge on Oregon's Tualatin River (USA)

PES & Nature-Based Solutions · Good practice · United States of America

Quality score: 27/100

Evidence strength: Cautionary / limited

Summary

Since 2004 Clean Water Services has offset the heat load of its Tualatin Basin treatment plants with 221 riparian planting projects (~660 million kcal/day credit) plus reservoir flow releases; cooling itself is not directly measured.

Key dimensions

Dimension	Score
Carbon — sequestration / storage, evidenced	0/3
Biodiversity — conservation / improvement, evidenced	1/3
Water & soil — retention, infiltration, erosion control	1/3
Fire resilience — risk reduction, evidenced	0/3
Governance, certification & transferability	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-10-07

[Clean Water Services](#) — accessed 2026-10-07

[Clean Water Services — 2025 Water Quality Credit Trading Annual Report](#) — accessed 2026-10-07

[WaterWatch of Oregon — Thermal trading is popular, expensive and unproven](#) — accessed 2026-10-07

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