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Supplementary material

Nitrogen removal during the cold season by constructed floating wetlands planted with *Oenanthe javanica*

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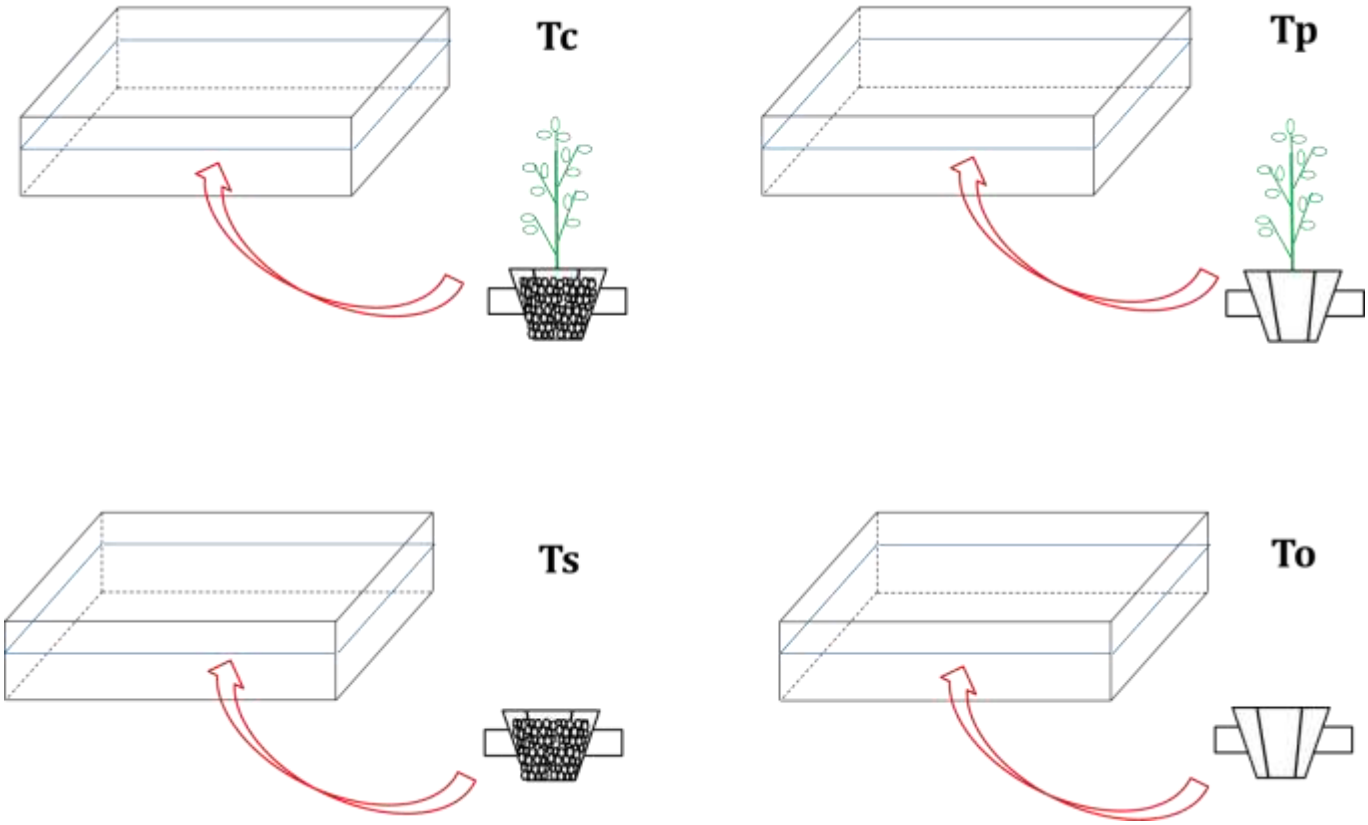

Fig. S1. A simple drawing of the experimental units.

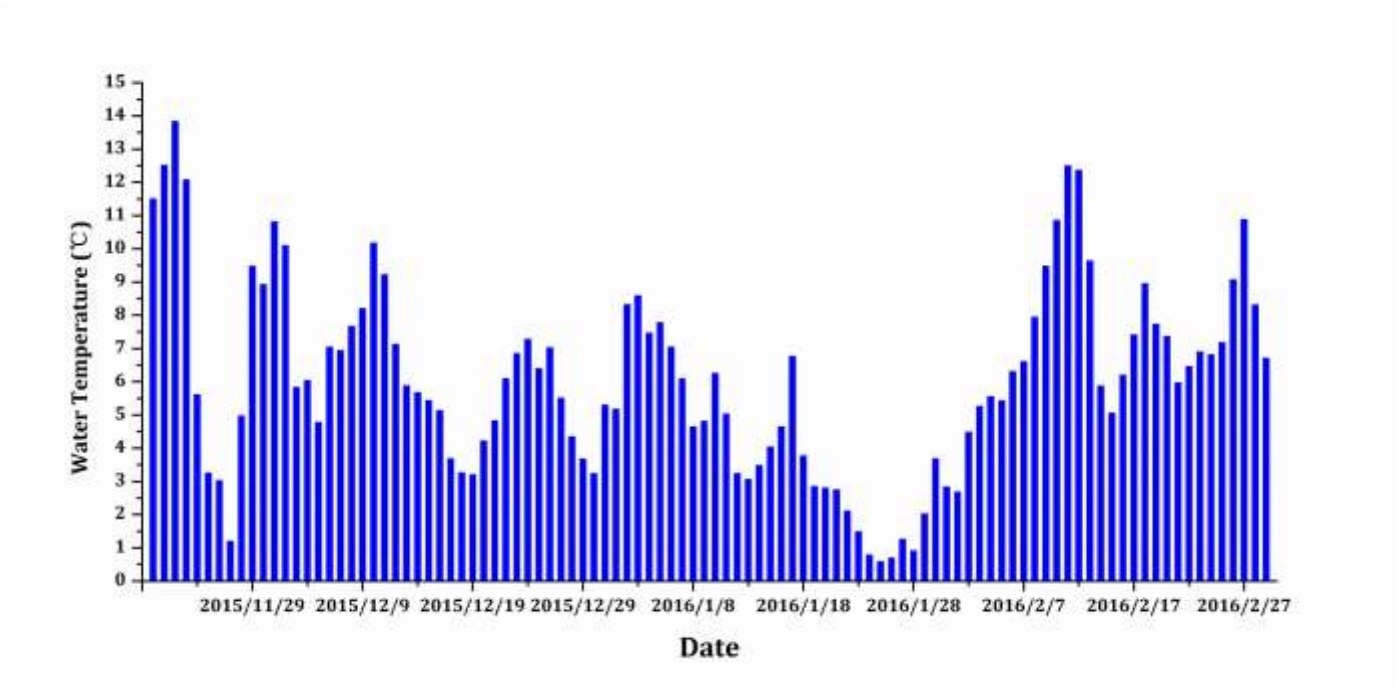

Fig. S2. The daily water temperature of the systems during the preprocessing period and experimental period. A temperature and light data logger (HOBO UA-002–08; Onset, Cape Cod, MA, USA) was used to record the water temperature.

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Table S1. The detailed information for 16S rRNA gene qPCR and Illumina MiSeq sequencing analysis in this study

Information	qPCR	Illumina MiSeq sequencing
Analysis system	Illumina-Eco real-time PCR system (Illumina, San Diego, CA, USA)	Illumina MisEqn 2500 sequencing platform (Illumina, San Diego, CA, USA)
Reaction mixture	5.0 μL of SYBR Premix Ex *Taq*II (Takara, Otsu, Japan), 1.0 μL of template DNA (diluted 100-fold), 0.5 μL of forward and 0.5 μL of reverse primer (10 μM), 3.0 μL of RNase-free water	25-μL reaction mixture (including 10 ng of template, 0.5 μL of forward primer, 0.5 μL of reverse primer)
PCR program	30 s at 94°C, 40 cycles of 5 s at 95°C, 30 s at 55°C (*amoA*) or 60°C (the other genes), and 30 s at 72°C	3 min at 94°C, 30 cycles of 10s at 94°C, 15s at 55°C, and 72°C for 30 s, and a final incubation at 72°C for 7 min
PCR product purification		Agencourt AMPure beads (Beckman Coulter, Inc., Fullerton, CA, USA)
Libraries construction		NEBNext Ultra DNA Library Prep Kit for Illumina (New England Biolabs Inc., Boston, MA, USA)