Supplementary Material

**Phosphorus Dynamics in a Eutrophic Lagoon: Uptake and Utilization of Nutrient Pulses by Phytoplankton**

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**FIGURES**

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Supplement figure 1 Free alkaline phosphatase activity (nmol l-1 h-1) in the filtrate and dissolved phosphate concentration (nmol l-1) at the Zingster Strom in 2014. Determination limit of DIP was at 50 nmol l-1.

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Supplement figure 2 Uptake kinetics of external dissolved inorganic phosphate (DIP nmol l-1) as seasonal median (normalised values nmol DIP µg-1 Chlorophyll *a*) for the Ribnitzer See and the Zingster Strom within one to 24 hours after DIP addition. Winter – December, January, February; Spring – March, April, May; Summer – June, July, August; Autumn – September, October, November.