

## **TDP (Total Dissolved Phosphorus) Concentrations of freshwater interstitial pore waters as a function of depth, in Toddy Pond, Maine.**

This study examined the concentrations of phosphorus within pore waters of Toddy Pond, Orland Maine. Comparing the total dissolved phosphorus at increasing depths, to that of the water column at the benthic layer. Pore water total dissolved phosphorus concentrations were significantly different from each depth to that of the benthic water column total dissolved phosphorus concentrations. Pore water concentrations were also significantly different from each other at each depth. The amount of nutrients, including phosphorus, available to the fresh water ecosystem greatly impacts the organisms within the water and those around it. Phosphorus levels in runoff and rivers are often increased due to anthropogenic sources such as fertilizers, detergents, as well as farming and heavy industry. Therefore it is always important to understand how the phosphorus concentrations are deposited within the fresh water ecosystems.

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