

of the Hudson River). But a significant deposition of NP ( $F_{fw} = 0.13$ ) from atmosphere to the surface water can be predicted with our values in the Lower Bay (Bay open to the Atlantic Ocean). These results demonstrate that, apart from the aquatic input, terrestrial applications of NP associated products are significant sources for the atmospheric occurrence of NP. This is in good agreement with high NP concentrations found at a terrestrial site in New Brunswick, which is not influenced by aquatic emissions (Van Ry et al., 2000). Consequently, it may be concluded that the atmosphere plays a very important role as a medium for the transport of NP from contaminated areas to the coastal margins and the open sea.

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