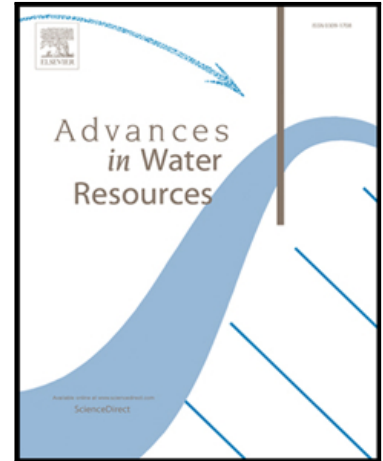


## Accepted Manuscript

Development of a Passive Sensor for Measuring Vertical Cumulative Water and Solute Mass Fluxes in Lake Sediments and Streambeds

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**Highlights**

- We present a device (SBPFM) for simultaneous measurement of water and contaminant mass fluxes in sedimentary lake and stream beds
- The SBPFM is a passive sampler directly driven into the sediment bed to intercept vertical flow and transport
- Tracer losses and contaminant retention on a sorbent material are used to estimate cumulative fluxes over the period of exposure

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