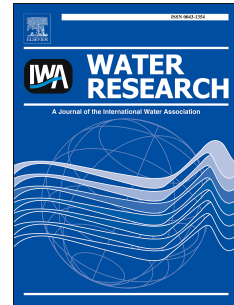


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Significant chemical fluxes from natural terrestrial groundwater rival anthropogenic and fluvial input in a large-river deltaic estuary

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6 **Running Head:** Dominant contamination from groundwater in LDE

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25 **Key words:** The large river delta-front estuary (LDE) of Pearl River; terrestrial  
26 groundwater discharge; radium, ammonium, reactive transport model

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