

Fig. S1. Calibration curve of Absorption coefficient at 254 nm against Fe concentration.

DOC - bulk

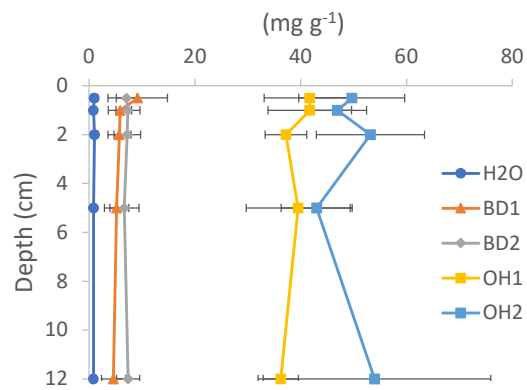


Fig. S2. Mean concentrations of extracted dissolved organic carbon (DOC) in bulk extraction. Values are relevant to means and SD of four sediment cores along the vertical profile of Landstejn reservoir.

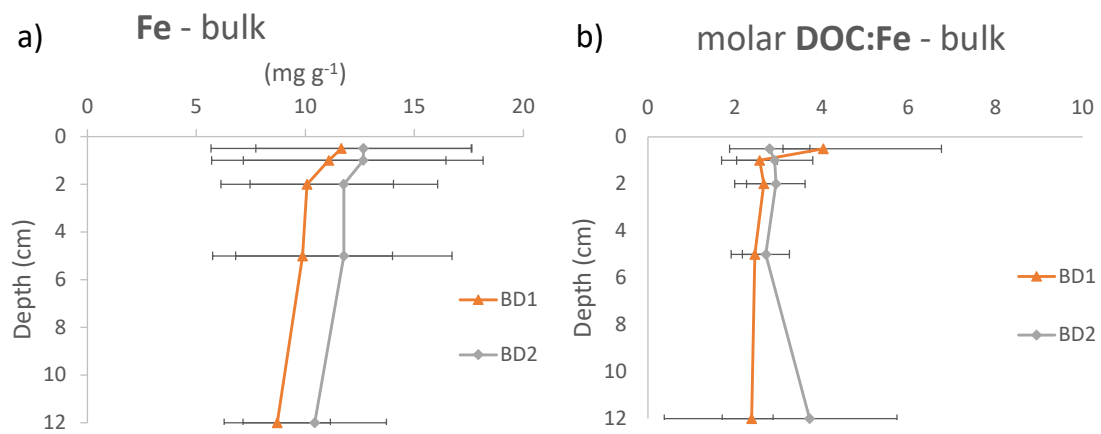


Fig. S3. Concentration of Fe extracted by BD1 and BD2 (a) and Molar ratios of DOC and Fe extracted by BD1 and BD2 in bulk extraction (b). Values are relevant to means and SD of four sediment cores along the vertical profile of Landsteijn reservoir.

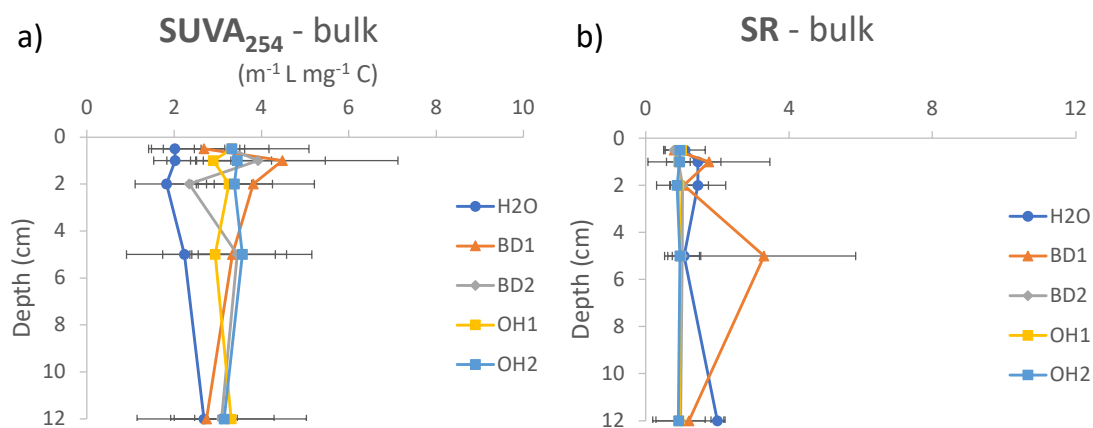


Fig. S4.. Values of SUVA₂₅₄ as a proxy to aromaticity (a) and SR, proxy to molecular weight (b) for individual extractions in bulk extraction scheme. Values are relevant to means and SD of four sediment cores along the vertical profile of Landsteijn reservoir.

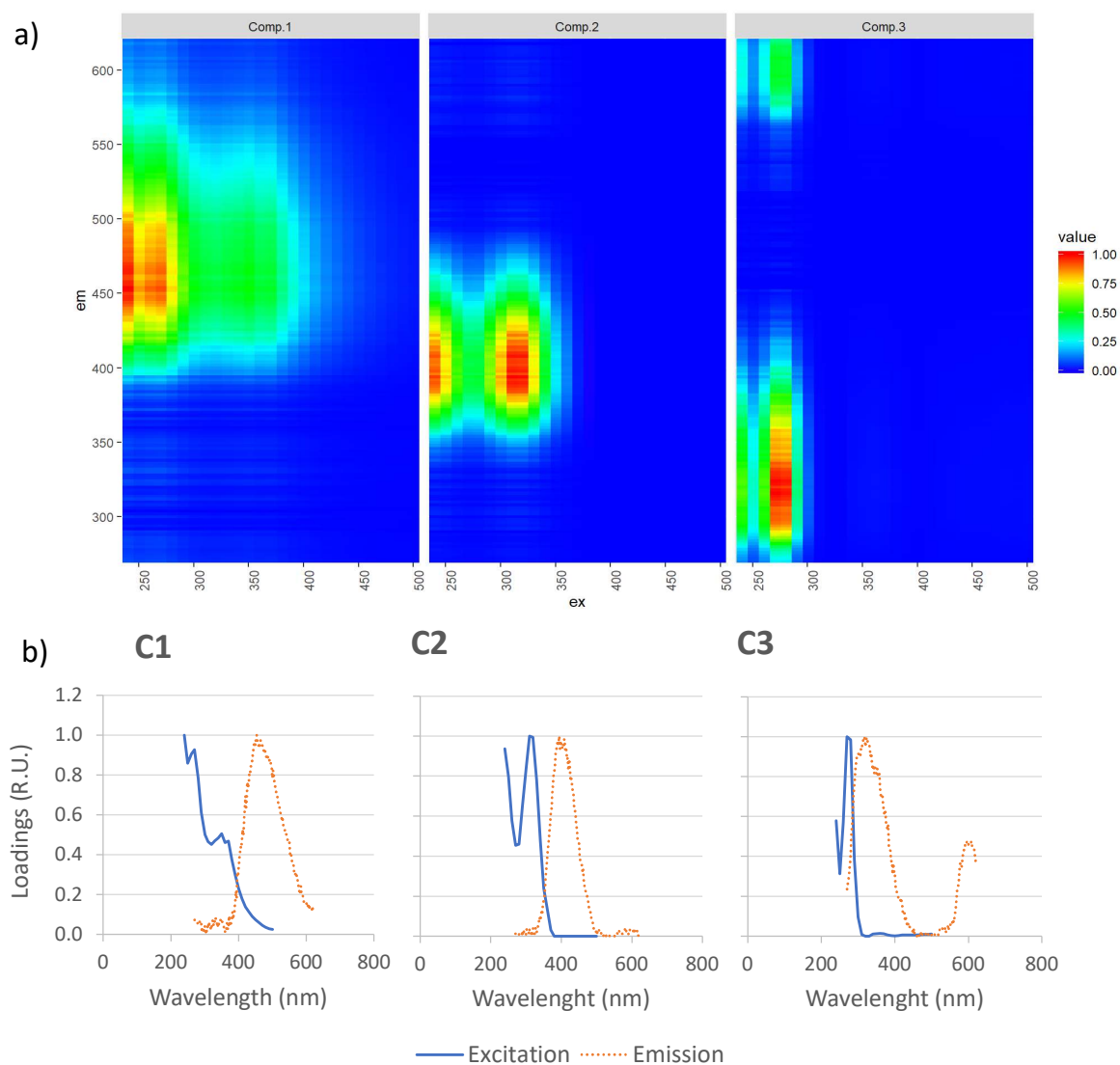
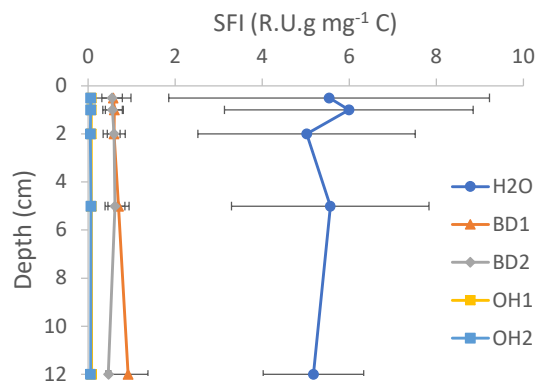
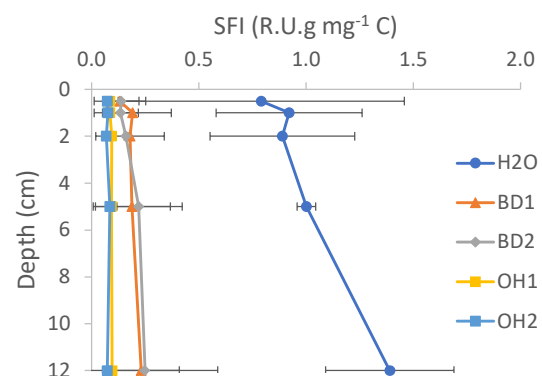


Fig. 5. Contours of identified components processed by EEM PARAFAC (a). Loadings of EEM PARAFAC identified components (b).

C1 - bulk



C2 - bulk



C3 - bulk

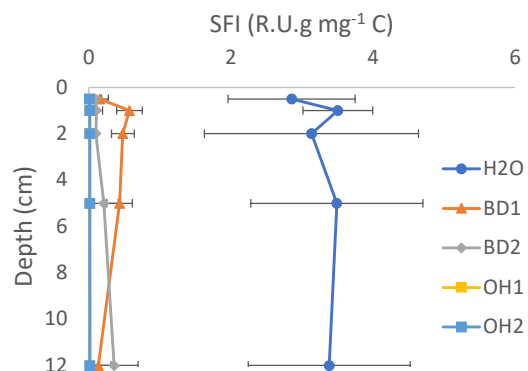


Fig. S6. Specific fluorescence intensity – SFI (given as the ratio of the fluorescence intensity in R. U. to the DOC concentration in mg g⁻¹) of identified components (C1, C2 and C3) for individual extractions in the bulk extraction scheme. Values are relevant to means and SD of four sediment cores along the vertical profile of Landsteijn reservoir.