**Supplementary material**

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**Environmental gradient shaped the vertical stratification of microbial community structure and potential function in** **permeable intertidal sediments, Gloucester Point**

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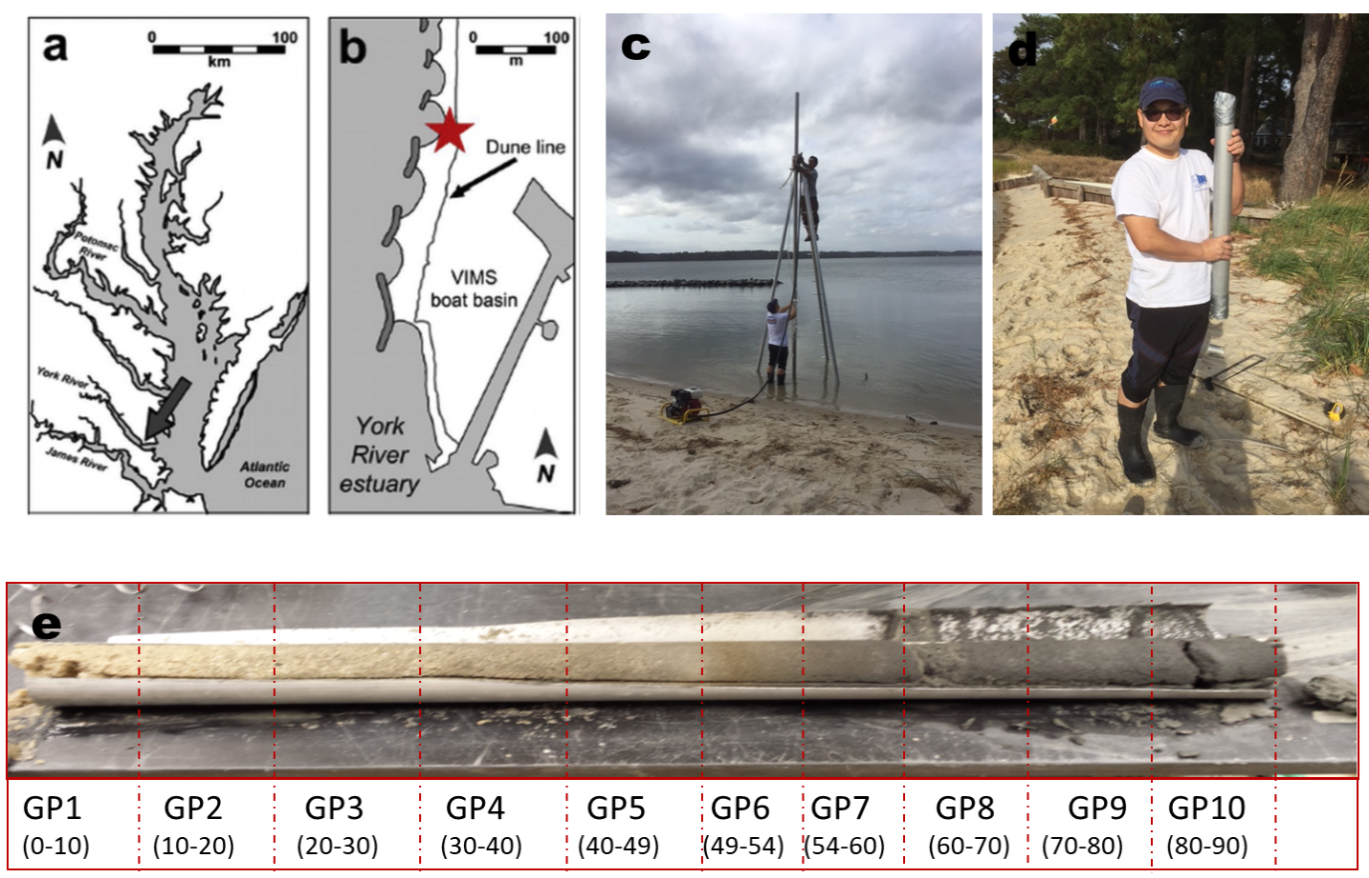


Fig.S1 The Gloucester Point site on the York River estuary (which drains to the Chesapeake Bay). (b) The study site is on VIMS beach. Sediment core were taken at the mid-tide line in the location indicated by the star. (c) and (d) are the scenes of working for sediment core collection. (d). Sediment core was fractioned into 10 subsamples.