

Progress Report

Occurrence and Distribution of Pharmaceuticals and Personal Care Products (PPCPs) in Ennore Estuary, India.

A proposal for understanding the extent of PPCPs pollution in Ennore Estuary, India was submitted to the LaMer Project in January 2020. The proposal was accepted for funding. According to the proposal, the water and sediment samples collected across the different stretches of the estuary was supposed to be analyzed for PPCPs at CMES, Ehime University. Due to the pandemic COVID19, it was not possible to travel to Japan to due to the travel restrictions and analyze the samples for PPCPs.

Sampling of water and sediment samples:

In December 2020, surface water samples were collected at ten different locations across the Ennore Estuary using a Niskin sampler. The samples were analyzed for the different physico chemical parameters like DO, pH, salinity, BOD, COD etc. The water samples for the analysis of PPCPs was not stored due to the non-availability of SPE cartridges. Sediment samples were also collected at the same location where water samples were collected using a van Veen grab. A portion of the sediment was collected in zip-lock bags for the analysis of PPCPs and stored at -20°C. The other portion of the sediment would be analyzed for sediment texture and sediment organic carbon.



Plate1: Sampling locations inside Ennore Estuary