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## Why a dip off the Marina may be bad for your health

## **SULLIED WATERS** Sewage from Adyar, Cooum rivers flows into the 192 samples collected from Marina, Elliot's. Thiruvanmiyur, Ennore > Highest at Marina Low levels and Kovalam beaches to study distribution of including fecal 4 lakh CFU /ml of pathogens with 100CFU pathogenic bacteria coliforms like E Coli for 100ml recorded in Marina and > Elliot's, Thirubacteria | 100CFU/ ml vanmiyur, Ennore ( Colony Forming other Kovalam beaches 1000 or lower CFU/ml Units) beaches

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Chennal: It is that time of the year when visitors flock to the Marina to beat the heat by taking a dip in the waves washing up on the shore. But a study by coastal monitoring experts suggests that even soaking your feet in the waters may do you more harm than sood.

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Scientists from the National Centre for Coastal Research (NCCR) have foundextremely high levels of microbial load – mainly fecal coliforms like E. coli – in five crowded beaches in and around the city during summer with the Marina topping the list.

Continuous, uncontrolled and untreated sewage discharge into the Adyar and Cooum rivers which flow into the sea is the source for the increase in the bacterial load along the coast, with monitoring experts saying that the levels of pathogens are on the rise.

rise.

The centre, a project directorate under the ministry of earth sciences, collected 192 samples from five beaches—Marina, Elliots, Thiruvanmiyur, Ennore and Kovalamduring the wet and dry season of the year.

Scientist Pravakar Mishra said they recorded up to 4 lakh CFU (colony forming unit) of bacteria per millilitre against the permissible

limit of 100 CFU/ml at the Marina. "It is because the Marina is between the Adyar and Cooum which are connected to sewage inlets. Kovalam beach is relatively cleaner while Ennore has more industrial waste than domestic," he said. "Discharging treated water into the sea is the only way out. But right now, we have a capacity for treating only 40% of sewage in Chennal," said M V Ramana Murthy, head of NCCR.

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To keep visitors informed on the water quality, NCCR is launching a mobile app to give daily updates on parameters like temperature, salinity, dissolved oxygen and coliform levels. Ramana Murthy sald they will start with Chennai, Puducherry and Purl and subsequently cover at least 100 beaches across the 7500km Indian coastline.

Former director of the directorate of public health, Tamil Nadu, Dr S Elango said people vulnerable to such pathogens could end up with symptoms of diarrhea or dysentery.

"The presence of E. coli or coliform organisms in the water is an indicator that beaches are contaminated with faeces. It is a serious public health issue as people can get digestive problems, vomiting, loss of appetite, dehydration and abdomenal pain, besides transmitting it to others." he said.

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