

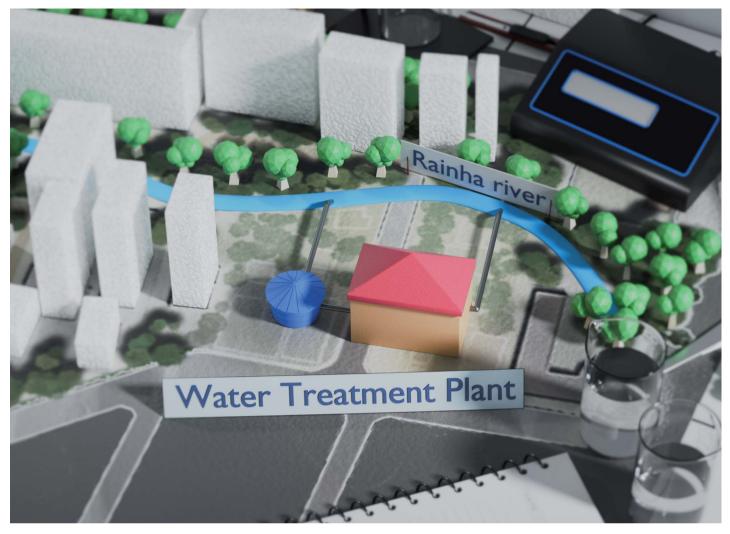


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Showcasing research from Professor Adriana Gioda Atmospheric Chemistry Laboratory, Department of Chemistry, Pontifical Catholic University of Rio de Janeiro (PUC-Rio), Rio de Janeiro, RJ, Brazil.

Physicochemical analysis and toxicity of the Rainha River waters: conceptual design of a treatment plant

A study analyzed water quality from the Rainha River, crossing PUC-Rio, over a year. Samples underwent physical-chemical and toxicity tests per CONAMA standards. Results showed class 1 water, requiring minimal treatment for potability. Toxicity tests with Saccharomyces cerevisiae revealed no significant toxicity. A water treatment plant was designed, involving microfiltration, hypochlorite decontamination, and adsorption. The process ensures potable water for campus use, supporting sustainability and safety for the university community. Copyright holders: Gabriel G. de Barros, Anna De Falco, Lius Fhernando Mendonça da Silva, Carlos Leonny R. Fragoso, Adriana Gioda and Roberto Bentes de Carvalho.



