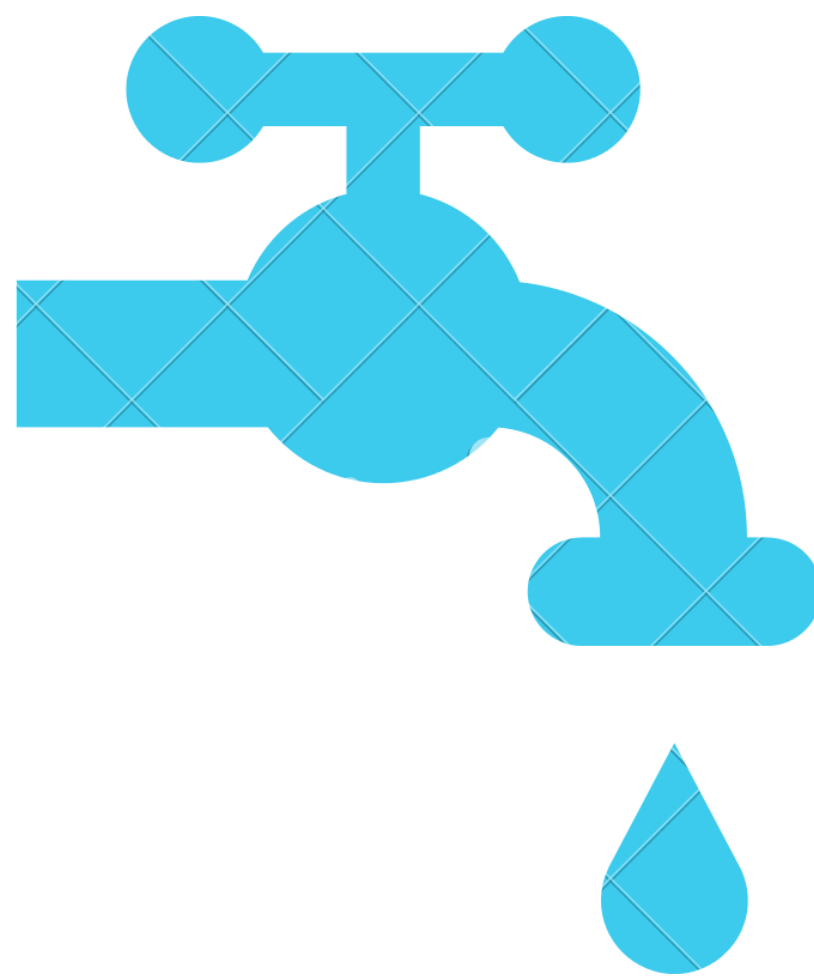


Escola Secundária da Maia, Porto, Portugal

*Made by : Ana Sofia Ramos, Inês Magalhães,
Matilde Santos and Sofia Santos*



Microplastic Water Filter

EcoTap

Every Drop Counts

Could you be swallowing a credit card's weight, in plastic, per week?

Some recent articles point to this possibility, supporting the idea that we ingest microplastics in tap water, the result of ocean plastic division in smaller fibers.

To test that thesis, we decided to analyse tap water from different parts of our country and investigate the existence of those particles

We set up a filtration system in Ciimar labs, with a nitrocellulose filter (0,2 μ m porosity). After the procedure, we observed the filter in a magnifying glass and found microplastics with dimensions between, 1,1 and 5,0mm.



In order to protect our body's health against this harmful particles, we plan to create a filter that retains microplastics among other impurities.

Special thanks to: The teachers Isabel Allen, Luísa Meira and Manuela Assis, Ciimar labs and especially Dr.Marta Correia, the company Smart Separations for the supplies, the university FEUP namely to the teacher Diana Paiva and to everyone that directly or indirectly helped to carry out this project !!!