



filtration



direct Nanofiltration for Potable water

Our customer, a municipal drinking water company in the Philippines, was looking for a one-step solution to remove color (humic acids) and pathogens from well water for the production of potable water. A simple process with limited use of chemicals was paramount for this project.

Our Solution

We supplied our dNF80 membranes, providing a unique one-step solution without the addition of chemicals, resulting in a product water flow of up to 1,200 m³/day from a highly-coloured well water.

Davao drinking water plant in the Philippines



Pressure
5 bar



Recovery
85%



Flow
11,000 m³/d



Feed
Well Water

Color of the feed water is above 250 TCU (True Color Unit), while the permeate is consistently meeting drinking water specifications of <5 TCU.

Pretreatment only consists of a 150 µm manual strainer. The dNF is cleaned with a short chemical flush with chlorine on a weekly basis, which maintains a stable flux and disinfects the system.

Permeability/Flux/Temperature

