HYDROFLUX industrial

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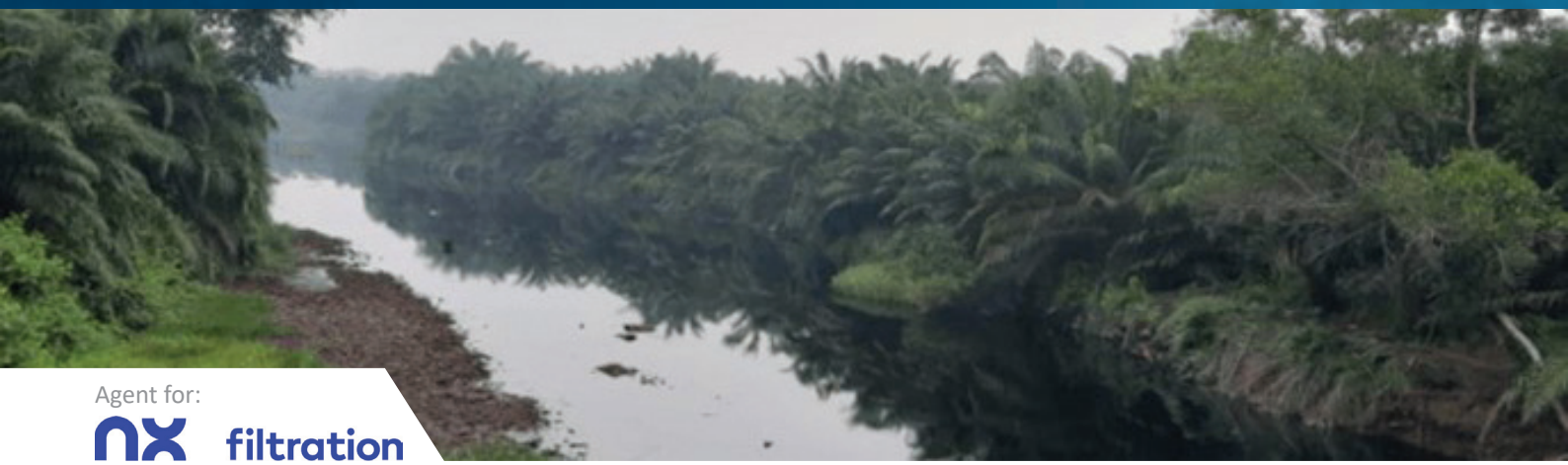
DRINKING WATER PRODUCTION FROM RIVER WATER IN INDONESIA

CASE STUDY



Agent for: nx filtration

THE CLIENT'S NEEDS

A municipal drinking water company in Indonesia, was looking for a simple and robust solution to provide access to improved water sources by treating peat water from the local Mesjid River. This river contains high amounts of color and various pollutants, that have accumulated in the Mesjid river during its flow through the rainforest.

OUR SOLUTION

We applied our dNF80 nanofiltration membranes, providing a unique one-step solution resulting in a crystal-clear drinking water which could not be achieved with conventional treatment methods. Our dNF membrane technology enables a sustainable water treatment process that does not require the addition of chemicals prior to filtration. Together with a low operating pressure and low chemical cleaning intervals, the OPEX of the process is approximately \$0.12 /m^3 (including replacement, electricity, labor and maintenance).

OUTCOME

Stable one-step nanofiltration system with a capacity of 3,000 m^3/day, consisting of 120 NX Filtration dNF80 membrane modules.

Performance Summary:

- **99% Colour removal**
- **80% Recovery**
- **\$0.12 Operational expenditures per m^3**