

# CASE STUDY

Treating wastewater with minerals at geological site

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## Industry: Exploration/Mining

Country: Finland

Process: Core saw waste water

Need: Fine rock removal before discharge, high solids loading

Flowrate: Approximately 5 m<sup>3</sup>/h

Sofi Filter: Self-cleaning SF1000, 10 µm multilayer wire mesh, 1 m<sup>2</sup> filter area

## Purpose

In this particular case the Sofi Filter is used to filter the drill core saw wastewater. The customer has several rock saws, which produce very fine rock dust mixed in with water, which makes it difficult to treat before discharge. In Sofi Filtration's solution the waste water is fed to a settling tank with a screw conveyor which removes the solids. The overflow of the settling tank is pumped to Sofi Filter via a centrifugal pump. Due to the filter's cross-flow design, part of the feed flows through the filter element and part returns to the process. In this application Sofi Filter is equipped with a 10 µm metal wire mesh element. The filtrate from Sofi Filter can be drained or reused. Sofi Filter reduces the amount of water in the settling tank and concentrates the solids so that they can be removed with the screw conveyor.

## Please contact us for more information

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