

# Improving dewatering process



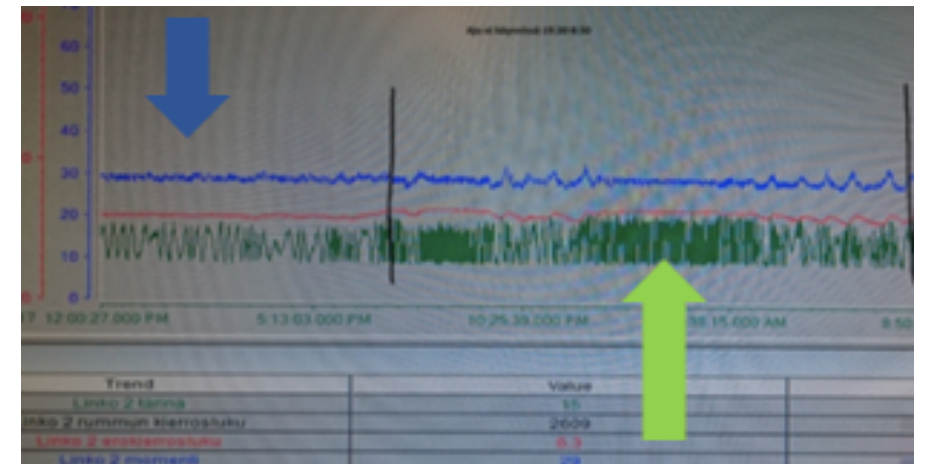
Client: Turku Water  
Location: Finland

## OBJECTIVE

The target was to prove the efficiency improvement in the dewatering process, when applying ultrasonic treatment to the sludge pipeline.

## PROCESS

During the project, the parameters from the centrifuge was monitored and compared to the period during next night when Altum solution was not on. From the graph, it can be seen the difference in centrifugal inertia (**blue**) and vibration (**green**). The inertia is extremely stabile, and the amount of vibration is significantly less. This means more efficiency and less wear for the equipment.



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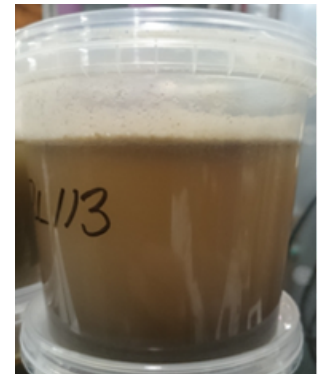
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## RESULTS

The improvement in the process was over 2%. That reduces the amount of sludge in the plant circulation and that makes also the other process of the facility more efficient.



Rejection water without  
Ultrasonic treatment



Rejection water with  
Ultrasonic treatment