

N-SEP requires redefining of wastewater treatment fundamentals

CHALLENGE

<< 40% of the sewage treatment plants in Norway do not meet treatment requirements, upgrading is necessary. >>

Norsk Vanns report 227 from 2017

HISTORY

Wastewater treatment plants require frequent upgrading for increased capacity and quality.

Environmental laws and regulations lead to ever stricter demands on the plants.

Upgrades are expensive and construction takes time.

Underdesigned plants do not cater for increased load of industrial wastewater.

New industries produce waste with high levels of nutrients and fat.

Variable pH range means more vigorous operation and management than ever before.

Increasing flow of surface water challenges pre-treatment.

Suspended particles become difficult to separate.

SOLUTION

N-SEP chemicals require redefining of pre-treatment principles in conventional wastewater treatment.

Dosage and mixing of N-SEP in the pipeline upstream flotation, sedimentation and filtering equipment eliminate the need for metal salts and polymers.

The result is significant reduction in cost and sludge production.

N-SEP is a unique chemical that gives improved SS-separation and is easy to combine with existing equipment.

The method provides a cost-effective solution for increased treatment efficiency.

The method can be used without expensive and demanding engineering, installation and commissioning.

Easy to adjust to varying and increasing loads -independent of pH.

ADVANTAGES

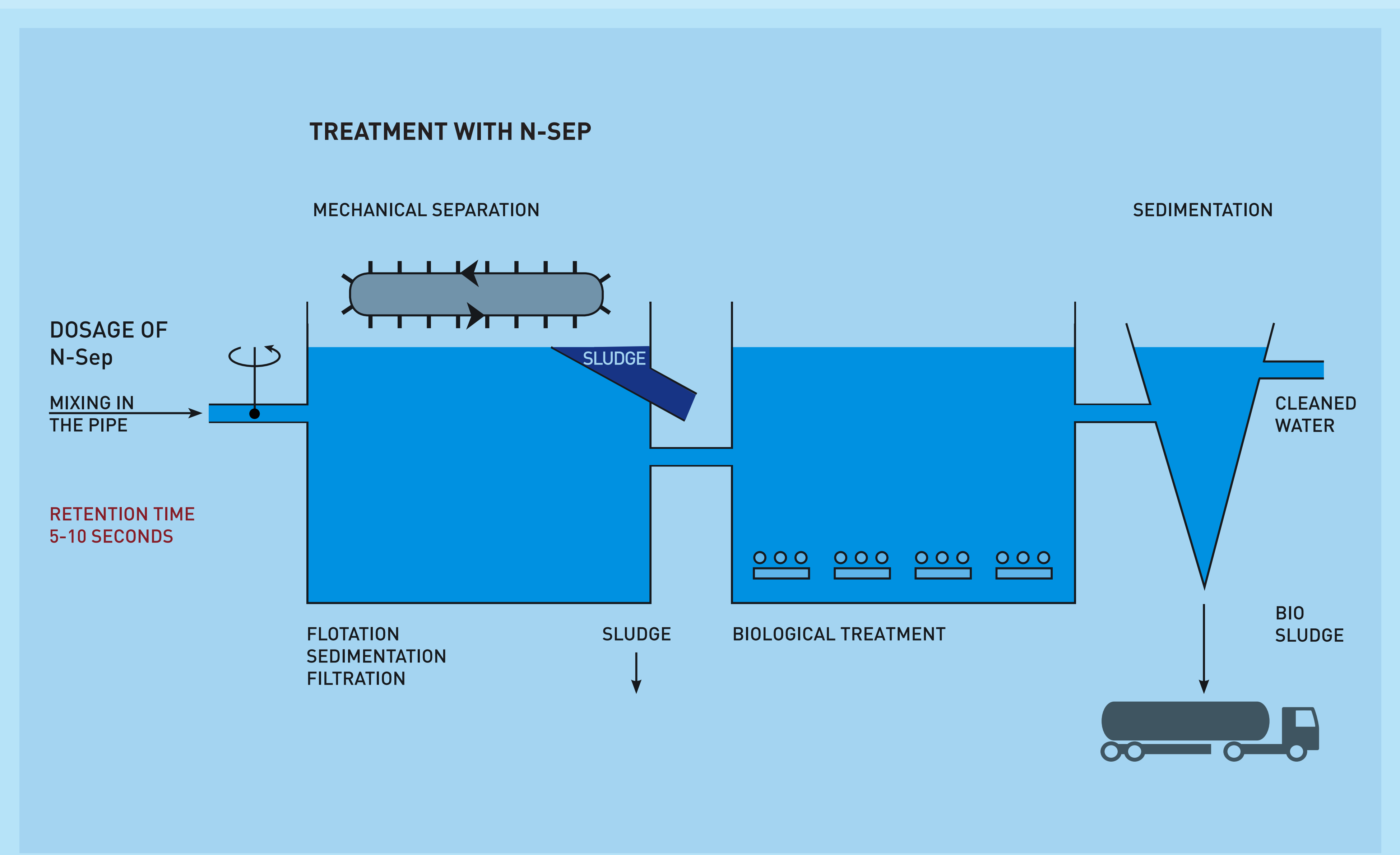
Works efficiently in pH range 3-11.

Reduced sludge production results in less sludge treatment and logistics costs.

Reduced plant size without the need for coagulation and flocculation basins.

Produced sludge has less inorganic fraction and is therefore excellent for biogas production.

N-SEP does not influence pH of water.



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