filtrated wastewater from the filtering device and/or for delivering sludge to the filtering device,

characterized in that

- the filtering device is a cake filtration device comprising a fluid penetrable support structure, the support structure being provided as one or more tubular elements having a filtration cake provided on the inside of the fluid penetrable support structure, the filtering device having
    - an inlet being connectable to receive liquid to be filtered so that the flux direction of liquid to be filtered is from the interior of the tubular element, through the filtration cake and to the outside of the tubular element thereby providing a filtrate,
    - an outlet for outletting liquid from the interior of the tubular element, and
    - a filtrate outlet for outletting filtrate from the filtering device,
- the filtration cake being provided by deposition of solids from the sludge formed in the biological treatment device wherein the solids comprising digester slugde and at least one of activated sludge flocs and coagulated substances.

The sludge solids (solids from sludge) for e.g the filtration cake is typically provided by the biological treatment device; in embodiments including a digester a fraction of the sludge solids may come from the digester.

In the present context a number of terms are used as would be readily understood by a skilled person. Some of these terms are detailed in the following.

Sludge solids (solids from sludge) is preferably used to means activated sludge flocs and/or coagulated substances, typically, formed in a biological treatment device.

Cake filtration is used to indicate a process in which a liquid is filtrated by flowing through a filtration cake as disclosed herein

Filtration cake is used to indicate a layer of solid material deposited on a support structure, which solid material is in particulate form and origins typically as a

In a second aspect the invention relates to a water treatment system comprising a filtering device according to according to the first aspect, characterized by the filtrate outlet (9) of the filtering device (1) is fluidic connected or fluid connectable to a downstream biological treatment device (1).

Preferably, such a water treatment system comprising a filtering device (1) may be characterized by the inlet of the filtering device for receiving liquid to be filtered is fluidic connected or fluid connectable to an upstream biological treatment device. The fluidic connectable connections may preferably comprise valves for controlling the flow through such connections.

The water treatment system may preferably further comprise a screening device arranged upstream of the filtering device, said screening device being adapted to carry out a filtering-out of objects above a pre-selected size, such above 2 mm, preferably above 5 mm, such as above 10mm, from the wastewater prior to be fed into the filtering device.

Preferably, the water treatment system may further comprise a separator separating the sludge formed in the biological treatment device into an effluent and activated sludge having a higher dry matter content than the effluent.

In a third aspect the invention relates to a method for providing a filtration cake of a support structure according to the first and/or second aspect of the invention characterised by,

- feeding solids comprising digester slugde and at least one of activated sludge flocs and coagulated substances,
- an accumulation phase (A) comprising accumulating activated sludge flocs and/or coagulated substances on the interior surface of the tubular elements by inducing a pressure difference to generate a flow of sludge, towards and through fluid penetrable support structure until a layer of flocs has been established on the interior surface of the support structure,
- a compression phase (B) comprising increasing the pressure difference to a level being sufficient to compress the layer of accumulated flocs on the support structure into a filtration cake,

wherein,