

VÄSTERVIK

Utilisation of stormwater
with the aid of “multi-dams”

Interreg
Baltic Sea Region



Co-funded by
the European Union

SUSTAINABLE WATERS
WaterMan

Type of pilot measure:

Real-world implementation

Location:

Västervik (Sweden)

Water source:

Stormwater collected in “multi-dams”

Type of treatment:

Natural purification process in the pond ecosystem

Target water quality:

Water class D (EU Regulation 2020/741)

Utilisation:

E.g. irrigation of football and other green spaces, production of artificial snow for cross-country ski trails

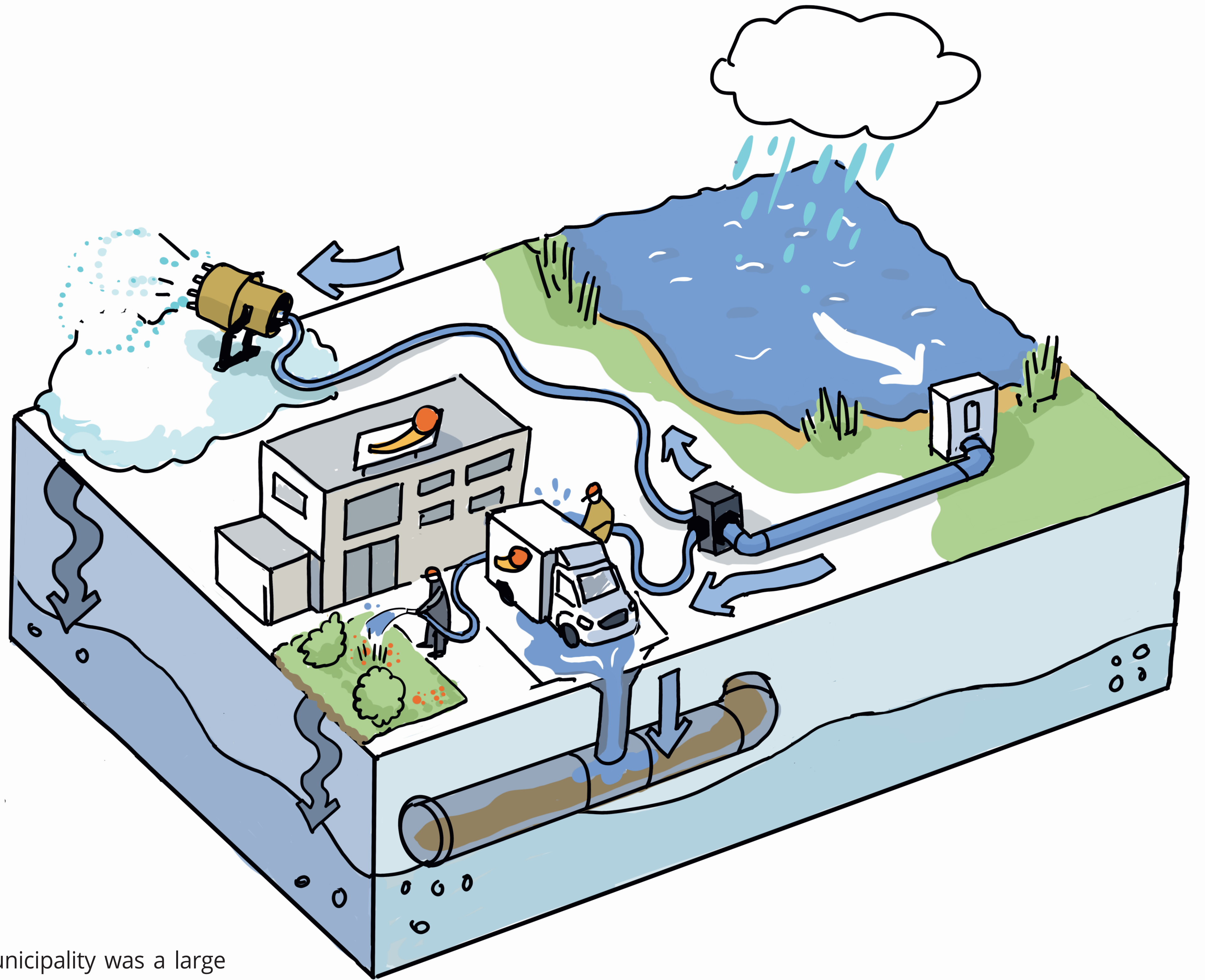
Return to natural cycle:

Infiltration, discharge into the natural system and stormwater system

Responsible:

Västervik Municipality

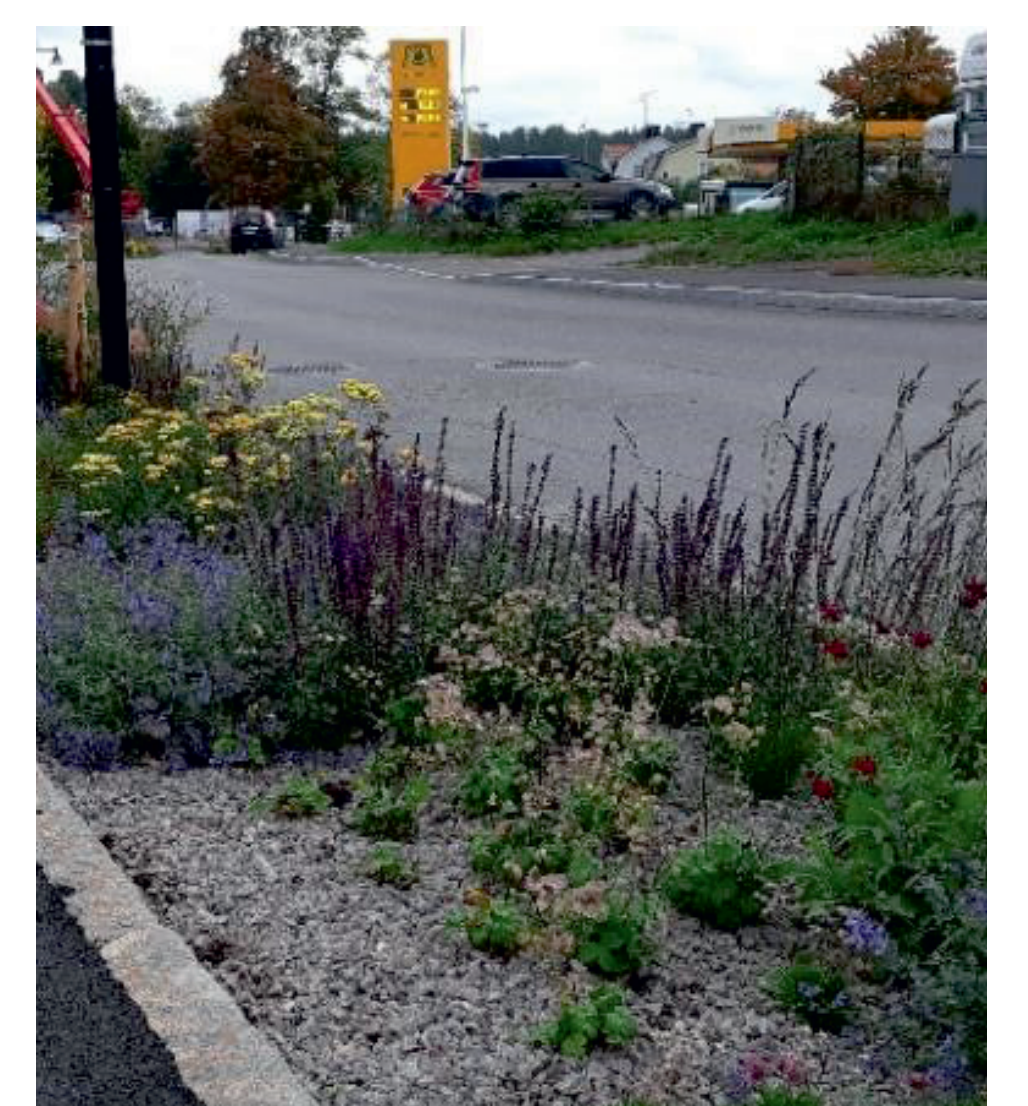
Operational & open for visitors: Since August 2023



The starting point for the pilot measure in Västervik Municipality was a large multi-purpose pond in Gamleby, which collects surface runoff from a catchment area of 80 hectares. It helps prevent flooding and, by adding a tap point, provides water for various uses in the surrounding area, including the irrigation of football fields and plantations, as well as the production of artificial snow for cross-country ski trails. Maintaining the pond's ecological balance supports natural purification processes, making it possible to use the water drawn from the pond directly.

Building on this experience, a new generation of “multi-dams” was developed and tested. Compared to the Gamleby concept, these newer systems are smaller in scale. The goal: to place these “mini-multis” closer to potential users – where the water is needed – since transporting water over long distances turned out to be a major obstacle to broader use.

In addition to reducing groundwater consumption, multi-dams offer ecological benefits such as enhancing biodiversity and reducing nutrient loads, contributing to more sustainable water and land management.



Contact for on-site visits & further information:

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