Report

Cost-benefit analysis case study visit: Pori

Time: 25 February 2014
Place: Luotsinmäki WWTP in Pori, Finland

Centralizing and improving the waste water treatment efficiency in the Pori region is one of the five case studies in the CITYWATER cost-benefit analysis study. Project expert **Ms. Eliisa Punttila** and Baltic Sea Challenge coordinator **Ms. Miina Mäki** participated from the City of Helsinki.

The visit was made to Pori which is located in the west-coast of Finland to learn more about the centralizing the waste water treatment in the Pori region and the renovated Luotsinmäki waste water treatment plant (WWTP) (Picture 1) of Porin Vesi (Pori Water). Luotsinmäki WWTP is the main WWTP in Pori, which today treats waste water coming from Pori and the neighbouring municipalities. In 2008-2010 large renovations and expands were made in the Luotsinmäki plant, and transfer to collect waste water from surrounding municipalities were built up. After this, six old municipal waste water treatment plant were run down.

Picture 1. Luotsinmäki WWTP is located by the river Kokemäenjoki near to the Bothnian Sea coast (Porin Vesi)

The visit begun with meeting with head of Luotsinmäki WWTP **Mr. Ismo Lindfors** and the chief executive officer of company Jokilaakson Ympäristö Oy (Jokilaakso Environment Ltd) **Mr. Pentti**

Mattila. Jokilaakson Ympäristö is responsible of the management of the transfer sewer from municipalities of Eura, Harjavalta, Nakkila and Ulvila to Pori. Ms. Mäki told first about the Baltic Sea Challenge and current news in the network, as for example new action plan of cities of Helsinki and Turku. Ms. Punttila continued by presenting the Life+ financed CITYWATER project and the cost-benefit analysis. After this we discussed about the open questions concerning the analysis (mainly the data), and potential positive and negative impacts of the centralizing of the waste water treatment.

Picture 2. Head of WWTP Mr. Ismo Lindfros presents the waste water treatment process in Luotsinmäki WWTP (Eliisa Punttila)

After the discussion, Mr. Lindfors provided us a guided tour in the plant. First he introduced the process in the control room (Picture 2) and told about the history of the plant. Then we went for a tour to learn more about the treatment phases on site (Picture 3). The newest parts of the treatment process was the flotation and chemical sludge treatment.

Picture 3. In the final sedimentation phase the water looks like clear (Eliisa Punttila)

Text and photos: Eliisa Punttila