

Monitoring, Modelling and Impact Assessment of Combined Sewer Overflows (MIA-CSO)



Context

Despite a multitude of storage facilities within the combined sewer system, combined sewer overflows (CSO) show considerable impacts on the Berlin inner city surface waters. CSO pose a potential threat to human use of the water resources and impair the viability of aquatic ecology. Therefore, CSO control will be an important component in reaching the good chemical and ecological status of the surface water bodies as demanded by the EU water framework directive. The project MIA-CSO will provide a better process understanding of the impact of CSO on stagnant lowland rivers.

Objectives

- Development of a methodology and a model-based planning instrument for impact based CSO control
- Demonstration of the planning instrument for impact based CSO control within a case study on the inner city stretch of the Berlin river Spree in cooperation with BWB and Berlin Senate Department of Health, Environment and Consumer Protection

Work packages

- Integrated monitoring of River Spree and combined sewer system using online sensors for quasi-continuous flow and water quality measurement
- Setup of numerical models of sewer system and river for scenario analysis of CSO control strategies
- Process description as well as model adaptation, calibration and validation based on monitoring data
- Integration of sewer model, river water quality model and a module for statistical analysis of simulation results into the planning instrument for impact based CSO control



Combined sewer system



CSO discharge into receiving river

Duration: 02/2009 - 05/2012

Project Volume: 1,135,000 EUR

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