MONITOR
SAM CSO

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

Context

Combined sewer overflows (CSO) are one of the major pathways of pollutants from urban areas to surface waters. Because of these pollutants and the volume of the flows, CSOs can cause a variety of adverse impacts on the chemical and physical characteristics of surface water, impair the viability of aquatic organisms and pose a potential threat to drinking water supplies.

Objectives

- Development of a concept for online monitoring of CSOs and receiving water in the centre of Berlin
- Description of pathways of stormwater-bound pollutants and the impact of CSO on receiving water quality
- Setup of an integrated model for the Berlin drainage and river system (stagnant lowland river)
- Development of a method for receiving water quality based management of the Berlin combined sewer system

Work packages MONITOR

- Review on CSO monitoring concepts and projects
- Testing of online sensors
- Development of CSO monitoring campaign

Work packages SAM-CSO

- Review on river water quality models and stormwater/CSO guidelines
- Integrated modelling of Berlin combined sewer system, CSOs and receiving river Spree
- Application of the OpenMI interface

Combined sewer system

CSO discharge into receiving river

Duration: 11/2007–04/2009

Project volume: 318,000 EUR (MONITOR) 247,000 EUR (SAM-CSO)

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