

IMMISSION-BASED ASSESSMENT OF DISCHARGE IN THE LOCKWITZBACH (RIVER IN SAXONY)

Assignment

The Lockwitzbach is a river of Category 1 that has its spring in the Osterzgebirge close to the city of Dresden. In Dresden it finally flows into the Elbe River. Several outfalls operated by the city of Dresden discharge to the Lockwitzbach. Therefore, an immission-based assessment is to be carried out. The aim is to derive measures, by evaluating the results, for the qualitative and quantitative waste water treatment.

According to the European Water Framework Directive and to the requirements of the environmental agency of Dresden, the evaluation of the water pollution is to be determined by means of comparing the ATV-DWA-M 153 and BWK-M 3. With the application of the consequential measures, a good ecological and chemical state of the water bodies is to be guaranteed.

Based on this, an optimized approach is being developed for similar assessments.



Development of measures to reduce identified deficits

Scope

- Analysis of measurements of the biological and chemical condition
- Preliminary study on applicability of the guideline
- Proving discharges according to DWA M153, preparing basic data
- Defining the water body type, evaluating the qualitative and quantitative load
- Applying BWK M3, evaluating the water status
- Discussing application boundaries
- Basic assessment BWK M3
- Preparing data of the sewer system and the water body
- Technical calculations, analysis of the results
- Developing measures
- Comparing BWK M3 and ATV-DWA-M153

Short description

Client Stadtentwässerung Dresden GmbH

Project period 2008

Fee 47.000 €

Characteristics

Verification management according to BWK M3 and ATV-DWA_M 153 and comparison of the results

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