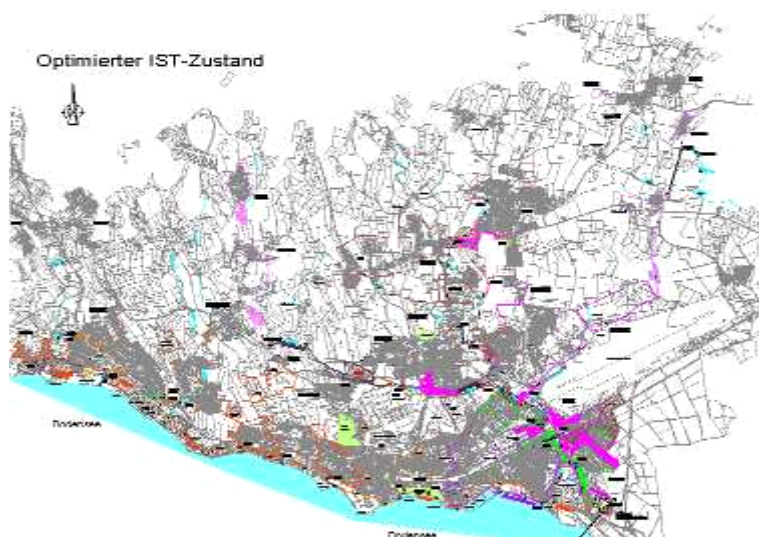


# Friedrichshafen

## Hydrodynamic Sewer Simulation Pollution Load Calculation



Regierungsbaumeister  
**SCHLEGEL**



### Client

Stadt Friedrichshafen /  
Tiefbauamt [City of  
Friedrichshafen / Department  
of Civil Engineering]

### Period

2003 - 2006

### Project Cost

not specified

### Abstract

Schlegel GmbH has been working out design and planning of a drainage system for the city of Friedrichshafen since decades. Baded on the environmental policies for Lake Constance, the lake's pollution load had to be kept as low as possible. Therefore, in order to improve the lake's condition, extensive reduction of impurities in the combined wastewater discharge was carried out. Hydrodynamic sewer simulation and pollution load calculations were technically the basis for the water right application procedure. Optimisation of 31 discharge and wastewater treatment plants were also carried out. Calculations were based on the programmes SFBS and SMUSI.

### Scope of Service

hydrodynamic calculation of sewer networks  
pollution load calculation  
water law procedures

### Technical Data

Sewer length	210 km
Stormwater overflow	15
Stormwater tanks with overflow	12
Sewers with storage capacity and overflow	4
Available storage capacity	19,109 m <sup>3</sup>
Allowable sewer volume	17,248 m <sup>3</sup>
Storm water sedimentation tank	1
Pumping stations	2