

INDUSTRIAL CLEANTECH  
ENVIRONMENT  
GEOLOGY  
WATER SUPPLY  
**HYDRAULIC  
ENGINEERING**  
ENERGY  
WASTEWATER  
CONSTRUCTION  
URBAN DRAINAGE

# WATER IN **MOTION**

Hydraulic engineering requires a holistic approach. We understand the interactions, know the processes and pursue an interdisciplinary approach – from strategic planning to implementation. Ultimately, we develop customized solutions that harmonise the human and environmental priorities in every situation.



## **FLOOD PROTECTION AND NATURAL HAZARDS**

We evaluate the characteristics of water basins, establish peak discharge rates, plot hydrographs, and assess runoff and retention volumes to better understand floods, bed load processes and debris flows.

Our employees also have in-depth knowledge in the areas of maintenance, area planning, hazard protection and object protection measures.

We support you with holistic flood and natural hazard protection in rural or urban areas – from hydrological assessment and the realization of the protection projects to emergency planning.

## **HYDROLOGY, HYDRAULICS AND NUMERICAL MODELING**

All hydraulic engineering tasks have their origins in hydromechanical interactions.

On questions of hydrology and hydraulics, we aim to give expert answers and offer innovative tailor-made solutions: from rainfall-runoff calculations to river basin models, and from sediment transport to installation-specific hydromechanical specifications.

Thanks to our multi-dimensional numerical models, we are able to optimize existing and new objects structurally and procedurally.



## **RIVER ENGINEERING AND REVITALISATION**

Whether a water body has to be evaluated on hydrological, morphological or ecological grounds, our strength is the combination of theoretical understanding and implementation experience.

Our project teams have routine experience with demanding project planning, construction site processes and conservation requirements. Furthermore, the preservation and enhancement of the affected water body is always a central topic.

From preliminary studies to implementation, we offer one stop for all your requirements, from specific measures to major river engineering projects.

## **WATER BASIN MANAGEMENT AND STRATEGIC PLANNING**

To evaluate hydraulic engineering systems holistically, all the relevant factors must be considered within a closed system. Because we have many years of experience in interdisciplinary projects for watershed management and planning, we can assist with the development of sophisticated protection and maintenance concepts.

For this purpose, we conduct comprehensive assessments of conditions and risks, develop integral action plans and provide strategic advice to our clients.

# LOCATIONS

## SWITZERLAND

### HOLINGER AG

CH-5405 Baden  
CH-4052 Basel  
CH-3006 Berne  
CH-6863 Besazio (Mendrisio)  
CH-7000 Chur  
CH-1024 Ecublens (Lausanne)  
CH-8500 Frauenfeld  
CH-5070 Frick  
CH-6331 Hünenberg (Zug)  
CH-8700 Küsnacht (Zurich)  
CH-6403 Küssnacht (Schwyz)  
CH-4410 Liestal  
CH-6005 Lucerne  
CH-1920 Martigny  
CH-4601 Olten  
CH-1950 Sion  
CH-8143 Stallikon  
CH-3600 Thun  
CH-8405 Winterthur  
CH-8005 Zurich

## SUBSIDIARIES

### aqua-System AG

CH-8405 Winterthur

### EnerSys Schweiz GmbH

CH-4410 Liestal

### ENVILAB AG

CH-4800 Zofingen

### IBG AG

CH-8005 Zurich

### SWISSWATER GmbH

CH-8005 Zurich

### TK Consult AG

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## INTERNATIONAL

### HOLINGER International Consultants GmbH

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### HOLINGER Ingenieure GmbH

D-10117 Berlin  
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