

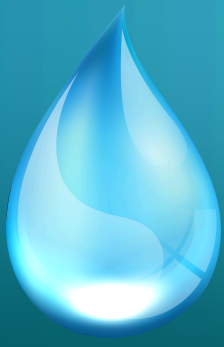
# 2023

## MUNICIPAL DRAINAGE

### Case Study

A project by Th. Geyer featuring a  
laboratory facility by Köttermann.





## Contemporary purified water

How wastewater treatment evolves into an innovative industrial water treatment facility

### Background

A bathing lake, situated within the grounds of a sewage treatment plant, is the first feature to capture attention during a tour. Employees of the Schweinfurt municipal drainage system unwind here during the summer months. However, it is not solely this unique biotope that piques interest; the newly designed, futuristic facility also draws considerable curiosity.

In conjunction with the standard operation of the sewage treatment plant, a research initiative with the Technical University of Munich aims to devise solutions to mitigate potential water shortages through the utilization of optimal equipment. To recycle wastewater for user consumption, it is essential to implement monitored filtration and purification processes to guarantee safe water quality.

## Sustainable Objectives

During arid periods, trees, green areas, and vegetable gardens may be irrigated. A newly constructed environmental laboratory, staffed by 14 employees, oversees the water quality of the sewage treatment plant while also conducting commissioned projects for industrial and private clients.

High-quality analytical equipment guarantees the integrity of the results. The well-designed building, planned and constructed by the Miller engineering office in Nuremberg, offers ample space with an area of 465 square meters. During the tendering process for the laboratory equipment, the engineering office engaged our partner Th. Geyer, who impressed us with an optimal price-performance ratio for Köttermann laboratory equipment made of steel.



## The strategy formulation

The meticulous planning required coordination with two senior departments overseeing the drinking water and wastewater sectors. From the outset, the emphasis of the innovative new structure was on light - numerous floor-to-ceiling windows inundate the space with natural illumination.







## THE FURNISHING SOLUTION.

The design of the furnishing elements for workstations, media cells, and laboratory fume cupboards was intended to be open and harmonious. This approach, along with the glass inserts in the media cells, enhanced the brightness of the rooms and facilitated open, collaborative work. Custom-designed work surface areas provide ample space for samples, analysis, and measuring equipment.

Short distances: To enhance work processes, the transition between office and laboratory environments is seamless. Ample storage space has been established along the wall through the installation of tall laboratory cabinets and cabinets for hazardous materials.





# Results

“

*This project posed unique challenges that we successfully navigated. Exceptional collaboration among all participants was the critical success factor, fostering a strong rapport with our clients. It is rare for us to utilize an office at our clients' locations. The joyful expressions at the inauguration - from employees to the mayor of Schweinfurt - were the most significant outcome for us.*

Sandra Niehaves, Head of Operational Sales and Laboratory Furniture DACH, TH. GEYER

**environ-  
mental  
research  
facility**

**465  
qm**

The inauguration of the laboratory building in September 2023, held in a relaxed and celebratory atmosphere, alleviated the accumulated tension. From the outset, the entire facility team faced a series of new challenges. Through the dedication of all participants, a profound trust in the team was cultivated, resulting in the exceptional opportunity for Th. Geyer to occupy an on-site office during the facility phase.







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