

# NEW RAKEMAX<sup>®</sup> BAR SCREEN FOR WWTP DEUTSCHKREUZ–GOLDBACHTAL IN AUSTRIA

## CASE STUDY

Situated in the middle of vineyards in the heart of the wine-growing Burgenland region, Deutschkreutz in Austria is 'where wine lovers feel at home'.

The typical red Blaufränkisch grape variety growing there is a delicious red wine well known among connoisseurs. But there are also other excellent red wines of international quality the Blaufränkisch region has to offer, such as Cabernet Sauvignon, Merlot or the local Zweigelt.

The sewage board AWV Mittleres Burgenland was founded on 1 October 1969 and today is responsible for the central wastewater treatment plants Deutschkreutz–Goldbachtal and Oberpullendorf–Stoobbachtal, in total for the fully biological treatment of 3.1 million m<sup>3</sup> wastewater from 19 municipalities.

The central wastewater treatment plant Deutschkreutz was built from 1975 to 1977 and expanded in 1994 with state-of-the-art technology. The plant is designed for a peak load of 65,000 PE and treats the wastewater of the municipalities Horitschon, Deutschkreutz, Neckenmarkt, Lackenbach, Unterfrauenhaid, Lackendorf, Ritzing and Raiding. An intercepting sewer runs along the river Goldbach from Horitschon to WWTP Deutschkreutz.

When the plant was upgraded in 1994 a 10 mm Aqua Guard screen and downstream screenings press were installed.

Due to the big screen big aperture, however, a lot of raw screenings were washed into the plant causing severe problems again and again in the course of the years. Finally, the bearings of the return sludge conveyors got massively damaged. In summer 2011, the sewage board decided to replace the Aqua Guard screen with a new fine screen. Within a very short time we could convince the decision makers of our technical solutions, especially with the references of our HUBER RakeMax<sup>®</sup> Multi-Rake Bar Screen. The order for a 3000 x 852 x 5 RakeMax<sup>®</sup> screen was placed in July 2011.

HUBER supplied and installed the screen including the electrical control equipment. The customer's screenings press was not replaced. The HUBER screen with 5 mm bar spacing is designed for 1100 mm channel width and the maximum throughput of 500 l/s with a channel depth of 2,100 mm. The screen was installed without any interruption of the WWTP operation and put into operation within only one working day on 8 November 2011 and has since operated to the customer's full satisfaction.

The WWTP manager Mr. Strehn is highly satisfied with the new HUBER RakeMax<sup>®</sup> Multi-Rake Bar Screen and its robust design and reliable operation, especially as the volume of screenings to be treated has more than doubled since start-up, from 3.5 m<sup>3</sup> to 7.3 m<sup>3</sup> a month.

We would like to use this opportunity to thank the operating staff on site and especially Mr. Fuchs and Mr. Strehn of the sewage board Mittleres Burgenland for their cooperation and confidence in our products. It has been a pleasure for us to work with them and we hope they will be happy with their new HUBER RakeMax<sup>®</sup> Multi-Rake Bar Screen for a long time.

