



SARNERAATAL

Municipal WWTP

49,000 P.E. / Q_{inlet} 14,000 m³/d

| | |
|-------------------------------------|-------------------------------|
| Number of Tanks: | 3 |
| Total Volume: | 9,828 m ³ |
| Water Depth: | 7.0 m |
| SOTR Standard Oxygen Transfer Rate: | max. 370 kg O ₂ /h |
| Total Airflow: | max. 3,000 Nm ³ /h |
| Total AEROSTRIP® Diffusers: | 288 |

The Sarneraatal WWTP, built in the municipality of Alpnach, was opened in 1978 and treats wastewater from the entire region around lakes Lungern and Sarnen.

When expanding the plant, the operator relied on new technology: Successfully established by WABAG Wassertechnik AG, the first Swiss sewage treatment plant using the innovative Nereda® process has been running in Alpnach since 2019.

AEROSTRIP® and granular sludge: A high efficient combination!

Increasing the efficiency of traditional activated sludge processes is at the forefront of advanced wastewater treatment.

As the drive for process intensification across a smaller footprint increases and energy efficiency becomes a more pressing issue for wastewater treatment plants, the AGS technology is an excellent choice: Here, instead of suspended activated sludge, **aerobic granulated sludge** is used, which achieves a higher degradation rate at the same volume thanks to higher bacterial density.

The combination of AGS technology with AEROSTRIP® diffusers results in a high efficient and sustainable waste water treatment solution: No other diffuser system fits so well between the pipes typical of AGS technology and delivers such high performance.

At the Sarneraatal STP, the high efficiency of AEROSTRIP® diffusers has been demonstrated once again: During an oxygen transfer test on site, an oxygen yield (SAE) of 5.31 kg O₂ per kWh was measured.

In the meantime, operators of AGS plants in the Netherlands, Germany, UK, Ireland, South Africa, India and Saudi Arabia have also chosen AEROSTRIP® for a good reason.

AEROSTRIP®

fine bubble diffusers by AQUACONSULT

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