



SCHÖNERLINDE SEWAGE TREATMENT PLANT

CHRONICLE

1985

Commissioning of the first expansion stage.

1986

Introduction of chemical phosphate elimination

1988

Commissioning of the second expansion stage.

1993

Introduction of a partial biological phosphate elimination with nitrification

1999/2000

Commissioning of three modernised sewage treatment lines with biological phosphate elimination in combination with nitrification and denitrification. Gradual commissioning of a sludge dewatering and drying plant.

2001/2002

Modernisation of three further sewage treatment lines

2003/2005

Construction of a new seventh sewage treatment line

PROCESS ENGINEERING

Mechanical and biological sewage treatment with biological phosphate elimination in combination with nitrification and denitrification. The digestion of the sewage sludge takes place in digestion tanks. The digested sludge, dewatered and dried in drum dryers, is recycled in line with closed substance cycle waste management.

TECHNICAL DATA

Treatment capacity:

105,000 m³/day in dry weather

Mechanical treatment:

Four automatic circular screens and one grab screen.

Rakings (coarse material) roughly two tonnes per day.

Three aerated double grit chambers. Grit collection roughly two tonnes per day.

Eight rectangular tanks for primary sedimentation with a total useful volume of 14,400 m³.

Biological treatment:

Eight tanks as anaerobic zone and fourteen tanks as anoxic and aerobic zone. Total useful volumes of 11,900 and 119,750 m³. Fine-bubble surface aeration via diaphragm aerators and via ceramic aerators in two tanks. Twelve tanks with a total useful volume of 42,660 m³ and two round tanks with a total useful volume of 10,370 m³ for secondary sedimentation.

Sludge treatment:

Four digestion tanks with a total capacity of 32,000 m³.

Three centrifuges for dewatering of the sewage sludge, three drying lines.

Biogas recycling:

Two floating bell gasholders each with a storage capacity of 5,000 m³. The biogas is used for the sludge drying, sludge heating, building heating and for the hot water supply to the sewage treatment plant.



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