

# success story

## Use of **simalube®** in sewage-treatment plants

### Correct maintenance of the plants reduces corrosion damage

Mechanical, physical, biological and chemical processes are applied in sewage-treatment plants. The first stage separates coarse mechanical constituents, sand and settleable matter by rakes, grit chambers and settling tanks or preliminary sedimentation tanks. The second, biological step brings the remaining, easily soluble effluent constituents into contact with bacteria and other micro-organisms. The remaining contamination is decomposed in a downstream, third step by chemical reactions.

During these processes, guides, chains, bearings, bolts and other parts come into contact with water, containing waste, hydrochloric acid, phosphates and caustic agents. Weather conditions can also have a major negative impact on operation of the plants.

Without maintenance, parts are subject to corrosion, and this leads to major malfunctions and, consequently, the need for repair and maintenance work. In addition, many parts need to be replaced frequently owing to the high level of corrosion, and this is very labour-intensive and cost-intensive. Continuous lubricant supply is important on such plants.

Maintenance and correct supply of lubricants to lubrication points are absolutely essential. The **simalube®** single-point lubricant dispenser is the obvious choice for automatic lubrication point supply. The use of **simalube®** lubricant dispensers substantially cuts maintenance costs for the sewage-treatment plant and greatly prolongs the service life of the parts. Permanent, automatic lubrication protects the metallic surfaces against corrosion and reduces friction and wear.

Many different lubrication points can be equipped with **simalube®** lubricant dispensers for maintenance of the sewage-treatment plants, e.g. chains, spindles, pipe closures and gate valves etc.

Corrosion-related faults and malfunctions are virtually eliminated, and maintenance effort is substantially reduced at the same time.



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