

Event show pond given a new glow



Initial situation

At the natural show pond for numerous customer events there was a big green and thread algae problem and the event organizers were looking for an environmentally friendly, sustainable and quick solution. The effort to maintain the company pond had become too great to keep it presentable. The natural pond of over 50 m length, approx. 20 m width and 1.5 m depth was filled up with groundwater.



The eutrophication of the pond resulted in an excessively large algae bloom, an explosive growth of green algae and thread algae, which could no longer be controlled. The water contained too many nitrogen compounds and phosphates, which were bound by the algae.

Consulting & Analysis

With the information for the assessment of natural ponds and natural pools, the conditions for optimal success could be examined:

- Morphometric data: shape, volume, area, average and maximum depth
- nutrient concentrations: phosphate, total phosphorus, nitrate, N-total, nitrite

Solution

- Installation of two G-Sonic 20 S algae clearance devices and cutting of the water lilies to ensure a complete click sound system for the large garden pond.
- A pond cleaning to remove the settled nutrients from the pond.
- Refilling with nutrient-poor tap water, as the ground water is too heavily contaminated with phosphates from the surrounding agriculture.



Click generator positions

With a range of 20 meters each, the click generators of the two G-Sonic 20 S were mounted approx. 15 cm below the water surface.



Results

After only a few weeks, the situation has already improved significantly. After 7 weeks of using the algae free devices the water became clear and permanently algae free.

Follow-up inspection

The algae-free devices are still successfully in use today. The gardener has much less to do due to the installation. The water lilies have to be cut from time to time, as they prevent the sound of clicking sounds from spreading. A pond cleaning is only done about once a year to remove the accumulated sediments.

