

# Algae Control in Recreational Lakes

Four solar-powered algae control systems were installed in the Aquadrome in Rickmansworth (UK) to control the cyanobacteria concentration in two lakes. Two systems were installed in a lake used for water skiing and fishing, and two additional units were installed in June 2017 in a lake used for sailing.



## Recreational lakes, Three Rivers, United Kingdom



- ✔ Cyanobacteria successfully controlled
- ✔ Both lakes remained open to the public

### The Challenge: Control Cyanobacteria

To ensure that the concentration of cyanobacteria remained at an acceptable level at a popular public open space with two lakes used for water skiing, fishing and sailing. There has been a historic problem of high levels of cyanobacteria in both lakes, especially over the summer when use of the site is at its highest. Any elevated levels of cyanobacteria could result in restricted use of the lakes, and the site in general, by members of the public and the lake users.



Figure 1: MPC-Buoy installed in the Aquadrome in Rickmansworth



Figure 2: The ultrasound is safe for birds, fish and other aquatic life

### The Solution: Ultrasound technology

Two MPC-Buoy systems were installed to control the cyanobacteria levels in the lake. The MPC-Buoy combines low-power ultrasonic sound waves with water quality monitoring to provide complete and environmentally friendly algae solution.

### The Results: Cyanobacteria controlled

Since the ultrasound units have been installed there hasn't been a problem with raised levels of cyanobacteria and the lakes have remained open to all users, without the need to restrict how the clubs operate.