

# Case study 632

## Sykes Pumps aerate Canary Wharf docks

If not treated quickly, an algal bloom can have a devastating effect on fish and other inhabitants of freshwater. The development of algae is generally considered to be a good indicator of the pollution levels in a body of water, with nitrogen and phosphorous both likely to be present. Although algae are essential in healthy lakes, too much can lead to water becoming cloudy and prevent sunlight from reaching submerged plantation and wildlife. This in turn will cause an oxygen deficiency, leaving fish at a much greater risk of dying in such conditions.



Sykes Pumps' expertise in counteracting problems of this nature led to a national contractor approaching us for a hired pump solution when one of their clients encountered a similar scenario. They contacted us asking if there was anything we could do to remediate two docks in Canary Wharf, as fish were dying and the water itself was beginning to smell.



A local technician visited the site before recommending a course of action, and this allowed us to propose a pump hire package to suit the project's specific requirements. In order to increase the presence of oxygen within the affected areas, water was circulated through Venturi aerators connected to the discharge side of our 6" super silent pump units before being pumped back into the docks.



Our suggestion proved extremely successful and provided the necessary increase in dissolved oxygen levels to aid the continued survival of fish living there. By reacting within a few hours of the original enquiry, we were able to exceed customer expectations and tackle harmful organic matter almost instantly – bringing an end to a detrimental natural cycle.

Performance Max head: 38m, Max flow:  
90 l/s, Max solid: 52mm  
Weight 1990kg with fuel, 1800kg without  
fuel  
Dimensions (mm) 2310 x 1250 x 1535  
Noise level @7m = 65 dBA  
Fuel tank capacity 175 litres  
Pipe connections Suction: 6" table D,  
Discharge: 6" table D, Bauer couplings  
option  
Energy Efficient duty point Fuel  
consumption @ 1500 rpm: 4.1 litres/h



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