

AlgaeWatch®

Cyanobacteria (or blue-green algae) are a common and naturally occurring component of most recreational water environments. They are of concern because some types produce toxins that pose a serious risk to public health. The prevention and management of Harmful Algal Blooms (HABs) while crucial, is also complex and requires significant technical expertise. The required expertise is not always available, particularly in smaller organisations with limited resources.

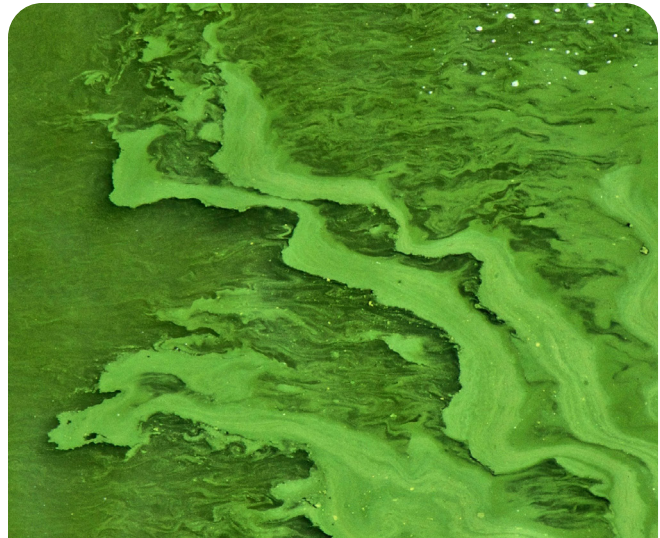
AlgaeWatch® is a managing module of D2K Information's Information Engine™ platform. Developed in collaboration with Jarvis Hunt Consultancy, AlgaeWatch® provides an automated interpretation of the detailed cyanobacterial monitoring data in line with the Guidelines for Managing Risks in Recreational Water (2008) (GMRRW), developed by the Australian National Health and Medical Research Council (NH&MRC).

AlgaeWatch® combines visual inspection and analytical results; cells/mL, biovolume and microcystin analysis and calculates the alert level for each sample analysed from a waterbody. This enables asset managers, WTP operators and laboratories to see, immediately for each sampling site within a waterbody, the status from current results and the change in status over time.

AlgaeWatch® removes the guesswork for users unfamiliar with interpreting the guidelines and cyanobacterial analytical data, and provides practical recommendations for further action.

As a reporting module of Information Engine™, AlgaeWatch® is accessible at any time through a browser on any computer, tablet or smartphone that has internet access. AlgaeWatch® can be configured to send email and/or text message alerts to any nominated person. AlgaeWatch® can also communicate with corporate IT systems if required.

Information Engine™ (IE) is a customisable advanced water management analytics and visualisation software platform. IE converts data derived from field sensors into user-relevant information enabling users to make informed water quality management decisions.



Features:

- **A prompt to conduct visual inspections, and a visual alarm if not provided.**
- **Total cyanophyte biovolume.**
- **A current Alert Level assessment for each sample, including the basis of the alert.**
- **A list of potentially toxic cyanobacteria detected, their total biovolume and which is dominant in the sample, based on biovolume.**
- **For each potentially toxic species listed: recommendations of when to consider performing toxin analysis, and which toxins to test for.**
- **Additional advice about consulting Harmful Algal Bloom (HAB) Response Plans.**
- **A visual historical output for each waterbody, sampling event and site, with access to output messages provided at the time.**
- **A default range of potentially toxic species and limits set. However, the list and thresholds for prompt action and recommended actions can be customised to suit the user.**