

Brief: Orange Blue Green Algae Minimisation Project

Client: Orange City Council

Storage: Suma Park Dam

Location: Orange City Supply, NSW.

Suma Park is the main water storage for the Orange City district and in the past have had several serious blooms of toxic forming Cyanobacteria during each year. These blooms have necessitated the augmentation of the water treatment plant with additional barriers to maintain water quality at acceptable levels. One such addition is the ozonation plant, however the plant is expensive to operate and service.



WEARS have installed the 5-meter SMDI at Suma Park to minimise the incidence of toxic BGA at the source. This system uses only 3kW of electrical energy and since installation no toxic forming Cyanobacteria have been detected.

Although initially increased levels of manganese were detected at start up, once operator experience was gained these levels were reduced to below previous historical data counts.