

BioWorld Products

California • USA • Worldwide

HYDROELECTRIC PLANT ALGAE TREATMENT CASE STUDY

Project Situation

A hydroelectric plant in the Sierra Nevada collected river water in several flumes. The flow rate of the water varied from 20 – 60 cubic feet per second. The water flowed through the facility to generate power and then emptied back into the local river. Excess algae and moss built up in the flumes and restricted flow. Mechanical brushing and chemical treatments were used in the past with limited success. Extensive notification to regulatory agencies and residential users with flume water rights was required. An alternative to chemical treatments was desired to control the algae and avoid the notification process.

Products/Technology Used

BioWorld was contacted to provide environmentally safe and natural algae treatment products.

A simple metering system was designed and installed to dispense BioWorld Liquid Optimizer (Product #35064) and BioWorld Algae Competitor Microbes (Product #30086) at the flume head works on a continual basis.

Results

BioWorld Liquid Optimizer and Algae Competitor Microbes helped out compete the algae and moss for the nutrients in the flume water. On-going treatments effectively minimized algae in the flume allowing for maximum flow rates and optimum power generation.