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Winery Irrigation Reservoir Case Study



A Napa Valley winery had a ½ acre irrigation reservoir with planktonic, single cell, green water algae. Chemical treatments including ammonia were done in the past but the algae continued to be a problem. Total Suspended Solids (TSS) and Biochemical Oxygen Demand (BOD) measurements were averaging 300 mg/l and 40 mg/l, respectively. Dead algae and solids also built up on the reservoir bottom.



BioWorld Green Water Algae Treatment products were applied each week. After 6 - 8 weeks, the algae were significantly reduced and average TSS and BOD measurements were 75 mg/l and 20 mg/l, respectively. This corresponds to a 75% TSS reduction and a 50% BOD reduction. Over time, solids broke loose from the bottom and were digested. On-going treatments have continued to balance the ecosystem for the long term with environmentally safe and natural products.

BioWorld Products used:
35064 Liquid Optimizer
33086 Green Water Algae Microbes
36086 General Blend Microbes

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