

## Reduce Lagoon Odors using BIO ENERGIZER®

FIELD REPORT

*Location: Wastewater Treatment Plant in CA*

### **Profile:**

**Location:** California

**Service Population:** 32,000

**Lagoons:** 570 acres, 11 feet damp

**Flow:** 3,300,000

### **Project Summary**

Two cheese plants and domestic wastewater from the city discharge into the lagoon system. The speculation was that CIP (cleaning in place) disinfectants and cleaners were entering the lagoon system in very large quantities upsetting the biology of the lagoon's ecosystem.

### **Situation**

In a few short weeks the city's 570 acres of wastewater lagoons turned from a healthy emerald green color to grey, then black and red. Rotten egg odors were coming from the lagoons and citizens were beginning to complain of the smell.

### **Solution**

After unsuccessfully treating the lagoons with sodium nitrate to control odors, the wastewater treatment plant supervisor began treatment with BIO ENERGIZER® and SUPER PHOS® to control odors and turn the pond system around.

Within two weeks the lagoons began to turn green, and at three weeks the odors were completely gone. At the four week period, lagoons were back to their emerald green color. The supervisor attributed his plant turn around to the BIO ENERGIZER® application.



## Probiotic Solutions® Product Information

BIO ENERGIZER® is a broad-spectrum bio-activator containing over 30 essential microbial growth-promoting ingredients. By design, BIO ENERGIZER® is a balanced formulation of vitamins, trace nutrients, enzymes, organic acids, and biostimulants that motivate the existing microbial community to greater metabolic capacity and efficiency. BIO ENERGIZER® is not a bacterium nor an inoculum.

For many years, wastewater operators have continued to use BIO ENERGIZER® to cut their sludge hauling costs.

### Operators Using BIO ENERGIZER® Report:

- 1) Increases in BOD removal efficiency.** BIO ENERGIZER® improves treatment plant removal efficiency to increase plant treatment capacity and more easily meet effluent requirements.
- 2) The elimination of expensive dredging costs.** BIO ENERGIZER® converts sludge into gases and water, reducing sludge accumulations. No draining, drying, excavating, or inconvenient down time.
- 3) The reduction of odors and aeration costs.** BIO ENERGIZER® enhances aerobic and facultative biological eco-systems to reduce the production of objectionable and offensive odors. BIO ENERGIZER® also increases the dissolved oxygen levels which decreases the need for aeration.

BIO ENERGIZER® enhances endogenous respiration for faster and more complete oxidation of sludge into carbon dioxide and water.

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## Our Probiotic Solutions® Products

are Highly Efficient and Effective Due to Our Unique Delivery System

*Call Toll Free Today for Your Free Quote and System Evaluation.*

**1 (800) 961-1220**