

Package Plant Regains Lagoon Capacity Using BIO ENERGIZER®

FIELD REPORT

Location: Package Plant in CA

Profile:

Location: California

Built: 1970s

Plant Type: Package plant with aeration and clarifier

Number of Lagoons: 1

Size: 0.08 acres

Dimensions: (each) 200' x 170' x 5' deep

Average Daily Flow: 12,000 – 15,000 gpd

Project Summary

The treatment system underwent a change of ownership and in less than a year the chief operator noticed that sludge started building up at the inlet of the post treatment lagoon and had started surfacing. The owner was considering raising the berms surrounding the lagoon in order to regain capacity in the system. The chief operator having used BIO ENERGIZER® in the past in the same system recommended to the owner to contact Probiotic Solutions®.

Situation

The system owner was facing lost capacity in his treatment system as well as dealing with accumulated sludge which can lead to high TSS and BOD by releasing ammonia from the sludge blanket. This ammonia feeds algae and bacteria. Algae are a source of BOD as they consume oxygen under dark conditions and as they release their cellular material to the water column when they die. In shallow ponds, accumulated sludge itself can slough off into the effluent which adds to the TSS and BOD problem.

Solution

After three months treatment with BIO ENERGIZER®, clarity had improved in the water quality as well as settleability. Surfacing sludge was significantly decreased as well and the owner is no longer facing the need to expand his current treatment lagoon.



Before Application



3 Months After BIO ENERGIZER®

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.



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