

## Facility Reduces Sludge 1 1/2 Feet Using BIO ENERGIZER®

## FIELD REPORT

Location: Municipal Treatment Facility in Indiana

### Project Summary

Operators at an Indiana facility were struggling to keep their pond system in compliance and were facing enforcement action from the Indiana Department of Environmental Management for CBOD and TSS violations.

A routine measurement of the sludge blanket showed an average of two feet of accumulated sludge. An operating depth of just less than 5 feet meant the sludge blanket occupied about one-half of the pond volume.

The City in Indiana contacted Mike Napier with BioChem for assistance in removing the sludge. Mike recommended BIO ENERGIZER® to remove the sludge while the lagoons stayed on line.

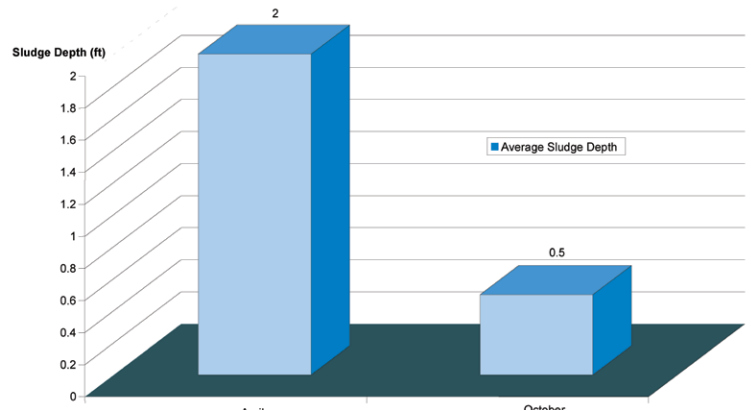
### Situation

Accumulated sludge 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 seven months treatment with BIO ENERGIZER®, about one-and-a-half feet of sludge was removed from the pond. As the lagoon was sludge judged at the end of the seven months operators noticed how easily the sludge judge cut through the water and remaining sludge blanket being forced. The sludge judge now just bounced on the bottom of the pond. Core samples also indicated little to no odor present.

Average Sludge Blanket Depth Before and After Using BIO ENERGIZER in Wastewater Pond #1



Before Addition of BIO ENERGIZER®



After Addition of 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.

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## Our Probiotic Solutions® Products

are Highly Efficient and Effective Due to Our Unique Delivery System

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