

INDUSTRIAL WASTE TREATMENT

CASE HISTORY SPOTLIGHT

Bionetix® Case History #26: Brazilian Pisciculture Trial

Some of the challenges for fish farming include keeping fish healthy without medication, achieving good fish weight gain, and keeping ponds clean. Sludge buildup from decaying organic matter causes bad odors, and the contaminated water often has to be drained and replaced at high cost before the next cycle. Heavy precipitation also interferes with pond stratification and lowers dissolved oxygen, stressing the fish, who eat less.

To counteract these challenges, Bionetix® biologicals were trialed at a Pintado fish farm in Mato Grosso, Brazil, from approximately December 2017 to December 2018. Two 7,000 square meter (1.7 acre) ponds were each stocked with 6300 young fish. One pond was the control. The other was treated with BCP54™ before filling the pond with water and periodically thereafter. AQUA-FEED™ was added to the fish food. AERO-BOOSTER-O2™ was applied about eight months into the trial to remedy low oxygen levels from the rainy season. The control pond cycle was 330 days, and the treated pond cycle lasted 400 days to allow enough time for oxygen-booster testing.

Normal production for a 10,000 square meter (2.5 acre) pond is 10,600 kilos (23,369 lbs.). In contrast, the treated pond had a 42% higher production level at 15,143 kilos (33,385 lbs.), with consistent fish size and good weight gain. The control pond produced 10,500 kilos (23,149 lbs.) with a wide range of sizes (about one fourth of the fish were too small). The treated pond had excellent odor control, stabilized oxygen levels, and did not have to be drained and cleaned at the end of the cycle. The results prompted excitement for expanding regional fish production with non-harmful biological technologies and also captured investor interest.

To read the full case history, please visit:

http://www.bionetix-international.com/wp-content/uploads/Restricted_Case_Histories/ch026.pdf

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