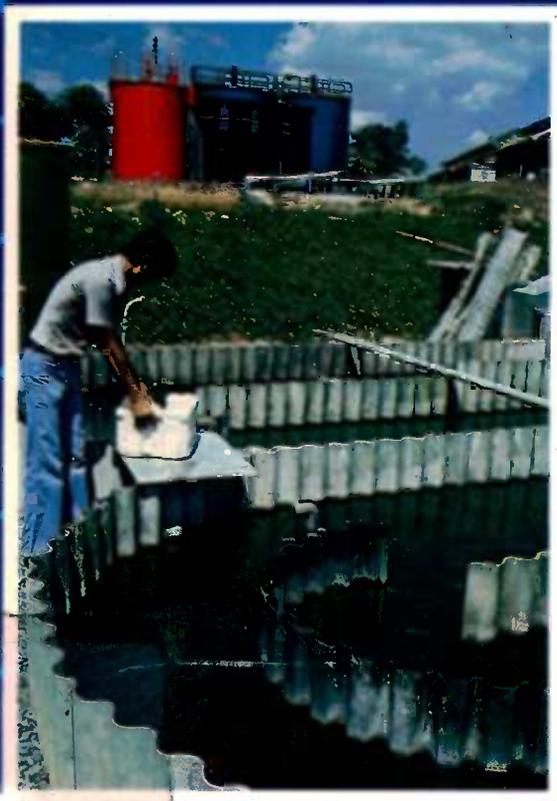


Wastewater Treatment and Resource Recovery

Report of a workshop on high-rate algae ponds,
Singapore, 27-29 February 1980



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Harvesting algae grown on pig wastes in Singapore

Joseph C. Dodd.

The harvesting, or initial concentration step, in the integrated high-rate, pond-nutrient recovery system is critical to its technical and economic viability and has presented a major obstacle to commercial implementation thus far. Considerable emphasis has therefore been placed on this aspect in Singapore, and a continuous filtration method is being developed. The operating and construction details of this method, which is based on a continuous fine-weave belt filter, are given.

A nutritional evaluation of pig wastewater-grown algae

M.F. Ngian and S. Thiruchelvam

Few nutritional studies on algae involving farm animals have been done on the nutritive value of sewage-grown algae. At the Pig and Poultry Research and Training Institute, Singapore, the nutritive value of pig wastewater-grown algae was determined with pigs, broiler chicks, and rats. Although the protein quality of the algae was inferior to soybean meal, it was found that 52% of the soybean meal could be replaced by algae in pig grower diets. Levels of 30% replacement in broiler diets decreased growth rate but caused no decrease in feed efficiency or increase in mortality.