

developed lands, and alterations of surface and ground water patterns have resulted in loss of viable wetlands. A trend that may be reversed if wetlands are given new values through their utilization as low energy wastewater recycle units. Given in Figure 4 are two alternatives for wastewater recycle through wetlands. In the top of Figure 4 natural wetlands are utilized and benefits to society include greater wood production and recycle of water through local groundwaters. In the lower diagram of Figure 4, an artificial wetland is shown. The 1200 acre site has a total of 986 acres of herbaceous and forested wetlands designed to recycle 16MGD of wastewater.

Managing Landscapes For Nature and Society

The landscape mosaic of uplands and wetlands and developed lands and natural lands will continue to undergo change as humanity continues its rush into the future. Increasing pressure will be placed upon the land for production of food, fiber, and mineral resources. Whether energy sources to society increase or diminish, the demands on the environment for production on the one hand and assimilation of wastes on the other, will increase. The need for management strategies that recognize the realities of changing value systems as a result of changing needs of society is great and can either follow change or initiate change depending on the insight of those in management positions. What is needed is strong, creative leadership on the part of landscape managers to help humanity fit into the landscape rather than develop it in spite of its many "limitations". Policies and regulations are needed that are based on a whole systems approach and that capitalize on values of landscape components when they are considered as one system.

That wetlands are valuable, there is no doubt, but the very same attributes that are touted as reasons for their protection are then in many cases not recognized. Wetlands can enhance water quality and help to minimize destructive storm surges if allowed to act in these capacities. The protection of wetland systems without an overview that sees why the protection is necessary in the first place exacerbate the problem. The problem is the continued decline of environmental quality as humanity demands more and more from nature; and the solution is look afresh at the