

Case History 24— Municipal Upgrade

MAMA gets new FBC treatment system

(Mountaintop Area Municipal Authority, PA)



The Mountaintop Area Municipal Authority (MAMA) operates a meticulously maintained treatment plant near the town of Snowshoe, PA, in the middle of Pennsylvania. Running a small system of floating mechanical aerators, the Authority desired to make plant improvements to increase the removal of ammonia and BOD, and reduce the operating costs of the older aeration system.

The Authority's engineers, HRG (State College, PA) designed a system which included ten O²ctopus® stainless steel diffusion units set at a depth of 10-feet. Diffusing from the bottom of the basin, the O²ctopus® units would reduce electrical operating costs at the plant, improve dissolved oxygen levels, and improve mixing in the basins.

The engineers also designed the system for the addition of four Bio²Bloc floating fixed film reactors. The "Blocs" were located toward the effluent end of the system to boost nitrification in the plant's discharge.

*General Contractor:
4M Construction Svc's,
Mifflintown, PA*



Supported with two small blowers, MAMA added ten new O²ctopus®. Stainless diffusion units, along with four new Bio²Bloc modular fixed film reactors to improve treatment and reduce electrical operating costs. The project was installed in a 3-day period in July 2006, with no down-time to plant operations.

