

Finished Water

A PHOTOGRAPHIC PROFILE



Streator Water Treatment Plant improvements include (from left to right) a new pipe gallery, a new control room, and new flocculators.

HISTORIC WATER TREATMENT PLANT RECEIVES \$5.5 MILLION UPGRADE

Illinois American Water recently celebrated an approximately \$5.5-million investment in a 128-year-old Streator, Ill., water treatment plant. The project includes enhanced water treatment technology with a powdered activated carbon feed system and a new dual-media filter, including air scour for backwash. A new backwash pump station helps improve backwash flow rate and supply. Twelve new vertical flocculators, incorporating variable-frequency drive motors, contribute to decreased turbidity and overall energy savings.

Environmental improvements involve erosion-control matting at the plant's intake dam to reduce riverbank erosion and protect the dam and raw water

supply line. A continuous sludge-removal system and upgrades to the sludge lagoon enable more frequent use of treatment process residuals as a conditioner for area farmland.

Installation of new piping, control valves, flowmeters, upgraded electrical system, structural improvements, and a backup generator provide increased reliability and security.

PROJECT SPECIFICS

Project Name: Streator Water Treatment Plant Upgrade

Operator/Contractor: Illinois American Water/River City Construction

Designer: Hazen & Sawyer

Completion Date: June 2011

Water Source: Vermillion River and an off-channel reservoir supplied by the river

Project Cost: Approximately \$5.5 million

Service: Average 2.1 mgd serving approximately 17,000 people

Staff Size: 15 employees in Streator District

Number of Operators: Six

Awards: The Streator Water Treatment Plant was awarded a 10-Year Director's Award from AWWA's Partnership for Safe Water in 2010. As a partnership member, the plant's water treatment practices are subject to rigorous review developed by national experts. A self-assessment and peer-review process are critical steps to obtaining this recognition.

PHOTOGRAPHS: ILLINOIS AMERICAN WATER