



# Riverside/Airlite WTP Control System

**Client: City of Elgin, IL**

**Location: Elgin, IL**



## System Features

- PLC's
- iFIX
- Modbus TCP & Serial Protocols
- PLC based Remote Telemetry Units
- Point-To-Multipoint Radio Telemetry
- VTP, Coax, Fiber Optic and Microwave Ethernet Network
- Polling Master PLC
- Spread Spectrum Radio

The City of Elgin, IL provides potable water to its residents and businesses from two water treatment facilities – Riverside Water Treatment Plant and Airlite Water Treatment Plant. In 1999, the City completed its expansion of the water treatment and distribution systems, which included a full upgrade of the city's automation and communications systems. These modifications provided state-of-the-art systems to monitor and control the utility operations and allowed for water production capacity to be doubled to thirty-two million gallons per day.

Transdyn provided a distributed control system for the two plants and a Supervisory Control and Data Acquisition (SCADA) System for the City's distribution system storage tanks and pumping stations located throughout their service area.

The system is managed by iFIX and consists of distributed host servers, programmable logic controllers and operator workstations communicating via a plant-wide fiber-optic Ethernet network and point-to-multipoint microwave radios. Redundant processors provide high-availability service for critical process areas and pump stations. A dedicated point-to-point licensed microwave link for host system communications with backup 56K dial-up circuit link the two facilities.