

North Carolina AWOP PROGRAM

The goal of the N.C. Area Wide Optimization Program is to provide the best quality water to the citizens of North Carolina by enhancing the existing infrastructure with minimal cost to the utility.

To better protect public health and define optimized performance, the following goals were adopted for all surface water treatment plants in the state.

Minimum Data Monitoring Requirements

- Daily raw water turbidity.
- Settled water turbidity from sedimentation basins at four-hour increments.
- On-line, continuous turbidity from each filter.

Individual Sedimentation Basin/Filter Performance Goals

- When the raw water turbidity average is greater than 10 nephelometric turbidity units (NTU), the settled water turbidity is **less than 2 NTU 95 percent of the time**.
- When the raw water turbidity average is less than or equal to 10 NTU, the settled water turbidity is **less than 1 NTU 95 percent of the time**.
- Filtered water turbidity is **less than 0.10 NTU 95 percent of the time** based on the maximum values recorded.
- Maximum individual filtered water turbidity does **not exceed 0.3 NTU**.
- Filter backwash is initiated before effluent turbidity **exceeds 0.1 NTU**.
- Filter to waste until turbidity is **less than 0.1 NTU**.
- Maximum filtered water measurement is **less than 10 particles** (in the >2 micron range) **per milliliter** (if particle counters are available).



For more information,
contact the N.C. DENR
Public Water Supply Section
at <http://www.ncwater.org/pws>

