EPA's Water Awareness Technology Evaluation Research Security (WATERS) Center

WATERS Center is located at
EPA's Test & Evaluation Facility in Cincinnati, Ohio

Goals

- Evaluate Sensor Technologies.
- Understand Contaminant Behavior in Distribution Systems.
- Evaluate Advanced Water Treatment Systems

Scope

- Chemical-Biological Warfare Agent Surrogates
- Toxic Industrial Chemicals
- Common Pathogens
- Pesticides / Herbicides

Early Warning Systems

- Existing Sensor Technologies
- Developing Sensor Technologies.
- Bio-sentinels

Existing Sensor Technologies

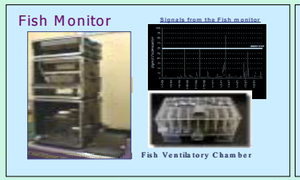
On-line Sensor & Probe

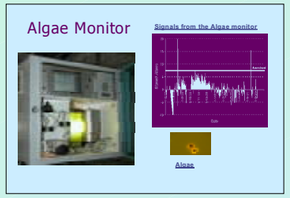
Multi Sensor Probe

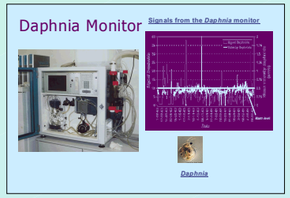
Chlorine Sensor

Developing Sensor Technologies.

Bio-sentinels







Distribution System Simulators

- Sensor Technology Evaluations
- On-line and Early Warning
- One-of-Kind Simulator

Advanced Treatment Technologies

- Ultrafiltration, Microfiltration, Disinfection

Ultrafiltration

Microfiltration

Disinfection

Distribution System Decontamination

- Designed and Fabricated – T&E
- Sensor, Sampling, Modeling, & Decon.
- IAG's
  - National Institute of Standards and Tech. (NIST)
  - Naval Surface Warfare Center (NAVSEA)
  - Edgewood Chemical & Biological Center (ECBC)

www.epa.gov/ordnhsrc/index.htm