



Online chemical contaminant monitoring system to protect source water supplies

Automatically and continuously tests for chemical toxins in source water supplies

Allows for early intervention countermeasures against potential threats

Reliable, easy-to-use and cost-effective

WaterSentry™

The threat to homeland security has brought about fundamental changes to the way we conduct our everyday lives. These changes have included many proactive measures designed to protect our society from the threat of terrorism.

This heightened focus on security has led to an increased awareness of the vulnerability to accidental contamination and intentional attacks on the reservoirs, lakes and streams that feed our source water supplies. Never before has the need for a reliable, easy-to-use and cost-effective water monitoring solution been more critical.



WaterSentry™ is the first system of its kind to automatically and continuously test for chemical toxins in source water supplies. Created by United Defense, **WaterSentry** is an important element of an overall risk management solution, and it allows for early intervention countermeasures against potential threats. **WaterSentry's** innovative technology offers a continuous, rapid and broad-trigger detection capability against water-born chemical toxins by monitoring natural

“A safe water supply is a vital resource that is critical to our everyday life.”

“Fences and gates alone won’t protect our communities’ source water supplies”

occurring green algae to detect the presence of chemical toxins in water. This low-maintenance, highly reliable system features automated 24/7 collection, testing and analysis of samples and visual and audible alerts. It requires no special training, is self-operating and cleaning, and eliminates the need for personnel to randomly collect water samples in the field. The only operator involvement is in response to an alert or potential threat.

WaterSentry archives time-stamped test results and stores suspect water samples for more detailed analysis, providing a cost-effective water supply monitoring capability that complements high-end laboratory water analysis methods.

The monitoring unit, which houses the sensor sub-system, is capable of independent operation at remote water sites. The system communicates over hardwired or wireless networks with a control station. In the case of a

suspected contamination, the control station alerts the operator through a series of alarms and alerts.

Today more than ever, there is a need to maximize the protection of one of our nation's most basic natural resources – the source water supplies we all use.

About United Defense

United Defense is a leader in the design, development and production of combat vehicles, artillery, naval guns, missile launchers, precision munitions and active protective systems for the U.S. Department of Defense.



Automated Operational Capabilities

- 24/7 testing and monitoring
- Collects suspected samples
- Multivariable analysis of collected data
- Visual and audible alerts
- Loss of power data backup
- Broad trigger alert algorithms
- Integrated battery back-up of monitoring unit & control station
- Simple design utilizing proven components
- SCADA compatible

Cost Effective

- No reagent costs - system uses naturally occurring algae
- No special training or tools are required
- Automated routine maintenance

Control Station Design Features

- Stores 30 days of archived data
- User friendly touch screen display
- Capability to control 12 test units from single control station

Monitoring Unit Design Features

- Ruggedized outer enclosure
- Environmentally protected
- Standard 110 volts AC
- State-of-the-art technology sensor

Supported Systems Communications

- Wireless
- Ethernet
- Fiber Optic

WaterSentry™

A product of United Defense

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