



Municipality Lifts Boil Water Order Using Mobile Membrane Solution

THE CHALLENGE

In November 2010, the Wellsboro Municipal Authority's slow sand filtration drinking water plant began experiencing high turbidity and algae events due to elevated levels in their reservoir. As a result, their citizens received emergency notices to boil their water before use. The boil water advisory not only impacted residents' daily lives from brushing teeth to preparing food, but it also required business owners to shut down soda fountain dispensers, ice machines and coffee makers.

THE SOLUTION

Upon successful completion of a pilot test, the Aria™ FAST mobile water treatment system was selected. The system's robust hollow-fiber membrane filtration modules provided high quality water, easily bringing the municipality into compliance, despite high turbidity events.

With a capacity of one million gallons per day, the modular unit offered a compact footprint allowing for easy installation. The full containerized system required minimal infrastructure, consisting of a concrete pad, a portable canopy enclosure, electrical power connection and inlet and waste discharge piping. The system includes a stand-alone PLC control system and SCADA for process control and plant data collection. Signals from the pre-existing plant process instrumentation are connected to the unit's PLC. This allows for the trending and storage of data for both historical reference and regulatory reporting requirements. As an additional safety measurement, an alarm management system was incorporated into the control system to automatically call specified contacts in the event of a critical alarm. The Authority is now in their second year of utilizing Pall Water's Aria FAST systems to augment their summer water demand.

“I was impressed with the engineering that Pall completed. The collaboration between our engineers and Pall's with the pre-built enclosure and supporting elements was spot on, for when the mobile unit arrived, everything fit perfectly.”

Daniel Strausser, Borough Manager, Wellsboro, PA, USA

THE RESULTS

With the installation of the Aria FAST mobile water treatment system, in conjunction with the pre-existing slow sand filters (SSF), the Wellsboro Municipal Authority was able to meet the DEP drinking water requirements, lift their boil water order and supply citizens and businesses with safe, quality drinking water.

In addition to providing high quality water, the Authority was able to reduce the cleaning frequency of their conventional technology, significantly reducing maintenance costs. This solution minimizes capital expenditure and gives the Wellsboro Municipal Authority the flexibility for possible future changes to the source water.

THE BENEFITS

Benefits of the Aria FAST mobile water treatment system:

- Robust membranes filtration to easily handle high turbidity events
- Fully containerized, compact footprint minimizing installation time and costs
- Self-sufficient system that requires minimal operator intervention
- Reduced maintenance cost of existing assets
- Remote access for process review and quick response time on system alarms
- Access to real-time and historical data for analysis of plant operation and assist in creating regulatory reports



aria^{fast}

Aria FAST mobile water treatment solutions provide water on demand, when and where you need it most.

- Rapid deployment
- Easy installation
- Robust design
- Temporary or long-term solutions



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