



ENGINEER
WOODARD & CURRAN

CONSTRUCTION FIRM
WINSTON BUILDERS CORPORATION

Woodard & Curran is an award-winning consulting firm integrating services in engineering, science, and operations to serve public and private sectors nationwide. Our team of more than 700 engineers, scientists, operations specialists, support personnel, and technicians are solutions-oriented professionals focused on providing superior service to our clients.



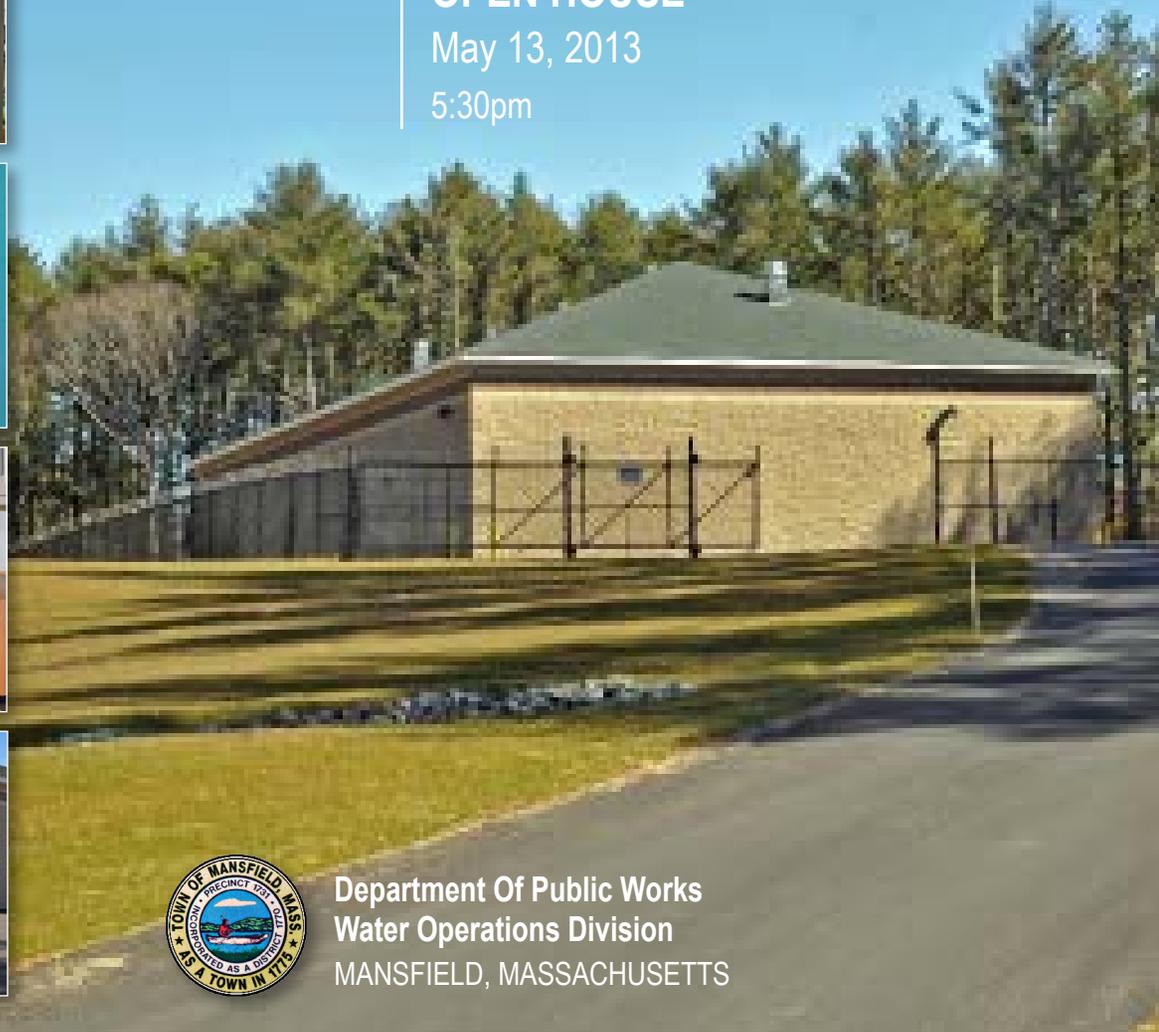
Albertini Wells

WATER TREATMENT FACILITY

OPEN HOUSE

May 13, 2013

5:30pm



woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

(800) 446-5518



Department Of Public Works
Water Operations Division
MANSFIELD, MASSACHUSETTS

Improving Mansfield's Water Quality:

Treatment facility improves town's water quality with combined facilities



In January 2013, Mansfield, Massachusetts, completed a major water infrastructure system improvement: the new Albertini Wells Water Treatment Facility. The facility treats about 30 percent of the drinking water used by this community of 24,000, drawing its supply from the Ten Mile River and Taunton River watershed.

Thanks to the new facility, water quality has been improved and the Albertini Wells are fully utilized.



IMPROVING WATER QUALITY: THE TREATMENT PROCESS

The 2.16-million-gallons-per-day green sand filtration facility improves drinking water quality by removing high levels of iron and manganese from Albertini Wells Number 2, 3, and 4. The new facility enables Mansfield to safely draw the maximum permitted amount of water from its wells.

Chemically similar to one another, iron and manganese are nonhazardous elements that affect drinking water aesthetically. They don't pose a threat to human health, but cause the following problems:

- staining of laundry and water fixtures;
- metallic or sulfur-tasting water;
- an oily or crusty sheen to water; and
- clogging of strainers, pumps, and valves.

The acidity or alkalinity (pH) of the water is adjusted for corrosion control and sodium hypochlorite is added for disinfection. A below ground chlorine contact tank is provided to meet the 4-Log removal of viruses and comply with the EPA Ground Water Rule. Fluoride is added to prevent tooth decay in water users. A new control system was installed at the facility and integrated into Mansfield's existing controls network. The three existing Albertini well pump station buildings were also demolished and converted to submersible well pumping stations. This will offer long-term operations and maintenance savings by eliminating building upkeep and heating.

OVER \$5 MILLION IN DRINKING WATER LOANS RECEIVED

The project received a loan of more than \$5 million from the Massachusetts Drinking Water State Revolving Fund (SRF). Part of the Safe Drinking Water Act, the SRF makes low-interest loans available to drinking water systems to finance infrastructure improvements.

