

# In Memory of Brigadier General William Whipple, Jr.

by Howard Woods



Brigadier General William Whipple, Jr., 98, of Princeton, New Jersey died August 23, 2007. Raised on a sugar plantation in Cinclare, Louisiana, he graduated from the United States Military Academy at West Point in 1930, studied economics and philosophy at Oxford as a Rhodes Scholar, and did a year of graduate studies in engineering at Princeton University.

During World War II he served as a member of General Dwight D. Eisenhower's Allied Headquarters,

where his logistical planning helped to shape the course of battle in Western Europe. After the war, while assigned to General Lucius Clay's headquarters in Berlin, he advocated that U.S. policy toward the devastated German nation should be restorative rather than punitive. Whipple considered his role in the development of the Marshall Plan his most important work.

In 1947, with the rank of colonel, he was sent to the Pacific Northwest where, he led the planning for water resources development of the Columbia River Basin. He later held a civil works assignment in the Office of the Chief of Engineers in Washington, DC, and after being promoted to Brigadier General, served as Division Engineer for the Southwestern Division. He retired from the Army in 1960 after 30 years of service.

Whipple was the Chief Engineer for the construction of the 1964-1965 New York World's Fair under Robert Moses. He later served as Director of the New Jersey Water Resources Research Institute at Rutgers University and participated in a number of professional associations, including serving as president of the American Water Resources Association. He was a fellow of the American Society of Civil Engineers.

In 1982, he joined the New Jersey Department of Environmental Protection, where he played a key role in developing and implementing a Statewide Water Supply Master Plan and other key projects. He was instrumental in the establishment of Water Supply Critical Areas No.1 and No.2 and the development of regulatory initiatives designed to assure adequate water supplies throughout New Jersey. His final employment was with the Greeley-Polhemus Group, an engineering consulting firm, in West Chester, Pennsylvania.

An authority on water resources, he wrote more than 100 books and articles on water supply, navigation, flood control, and power generation. His final book, *Comprehensive Water Planning Regulation* (Government Institutes, 1996), proposed a holistic approach to water resources planning aimed at breaking the gridlock between achieving general benefits from water resources projects and accommodating environmental concerns.

Survivors include his wife of 23 years, Dr. Alice Goodloe Whipple; daughters Anne Andersen and Claire Stech; sons William Whipple III and Philip Whipple; eight grandchildren; and five great-grandchildren.

He was buried with full military honors in the Arlington National Cemetery.

*Howard Woods is the General Manager of Howard J. Woods, Jr. & Associates, L.L.C. and Chair of the Audit Committee.*

## NJAWWA Drinking Water Crossword Puzzle

by Chris Andreasen

Test yourself and see how fast the puzzle can be solved. The words are from several sources including our Top Ops operator contest, NJAWWA and NJ water related items, and whatever else fit in. A copy of this puzzle, and the answers, will be posted on our website at [www.njawwa.org](http://www.njawwa.org) in the Small Systems/Operators Committee page.

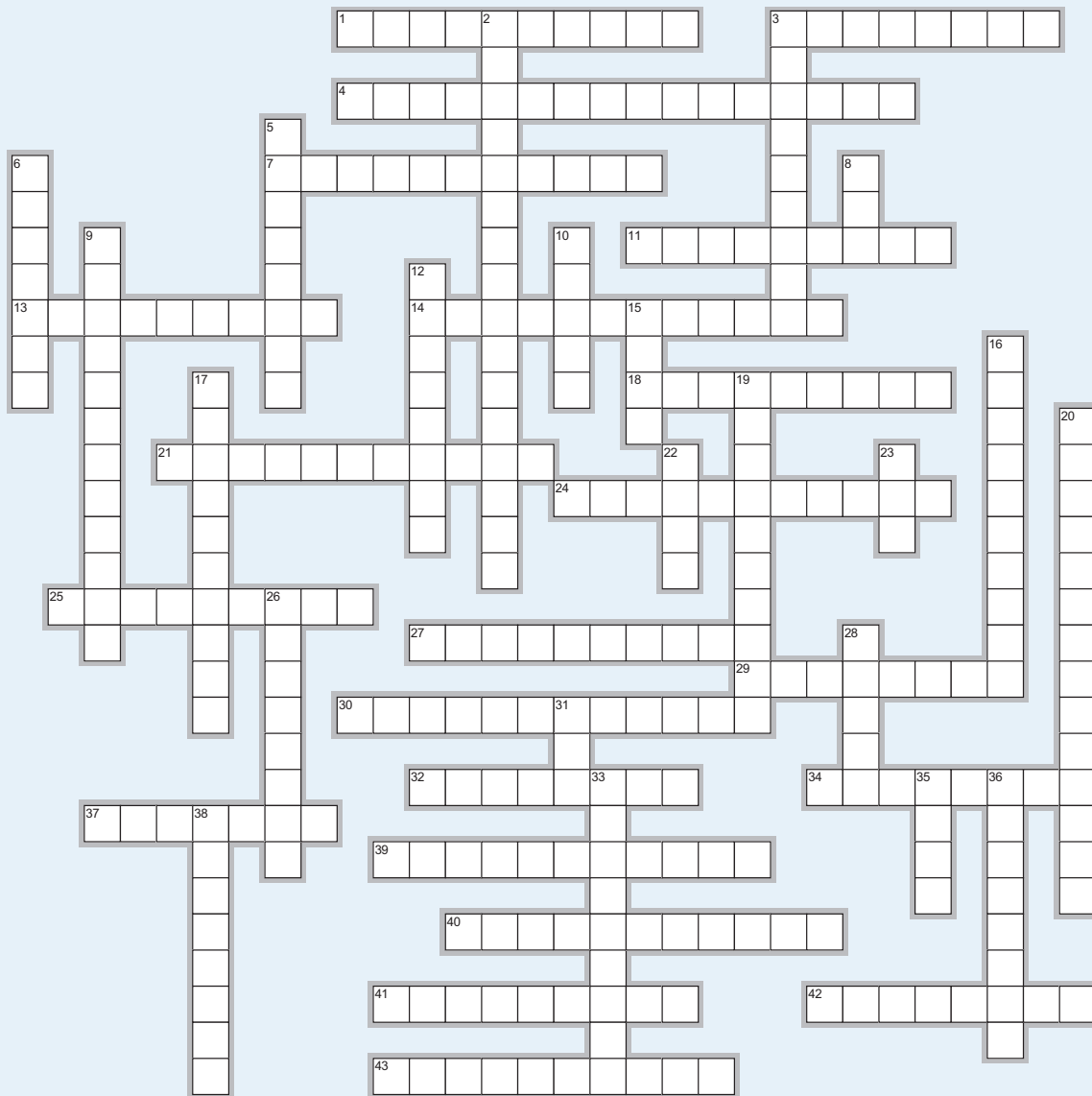
*Chris Andreasen is the Director of Engineering of Middlesex Water Company and is the Past Chair of the Section.*

### Across

- Intense television series, and/or number of hours water utilities operate in a day.
- Annual distribution system maintenance, and/or something most of us do several times a day, as necessary, demanding another important water profession.
- Nonprofit international development organization that helps people in developing countries improve their water supplies.
- Age limit to be considered an AWWA young professional.
- Protected watershed in northern New Jersey.
- The opposite of the latest food fad, and/or materials such as sand, salt, iron, calcium, and other minerals.
- Deepest reservoir in New Jersey
- A liquid ice outbuilding? A place to store your water tools?
- 2007 New Jersey Fuller Awardee
- NJAWWA's awesome rock band
- The deterioration of material by chemical reaction.
- Spontaneous vaporization of fluid resulting in a degradation of pump performance.
- Location for first desalination plant in New Jersey.
- The point at which a filter begins to release particulate matter into the effluent.
- Produced in 1) Football/football games played in heavy rain on a dirt field, or 2) sand filters.
- That last 1/2" of fluid in a bottle you've been drinking from, and/or the reversal of flow through a filter to remove the material trapped between the grains of filter media.
- Good for wine, beer, even soda, but water???? Naah, tap water is better.
- A device used to feed gaseous chlorine.
- The distance between the water surface and the media surface in a filter.
- A ruckus created to distract attention, and/or withdrawal of water from an aquifer.
- The curved top of a column of water in a small tube, generally forming a valley (with water).
- Cleaning one's clothes, and/or sedimentation basin overflow weir.

*Corrections and comments should be forwarded to [puzzlemaster@njawwa.org](mailto:puzzlemaster@njawwa.org).*

# NJAWWA Drinking Water Crossword Puzzle



EclipseCrossword.com

## Down

2. When dealing with a laboratory, what would the letters "TAT" mean to you, as far as waiting for results?
3. A type of check valve installed at the intake of a suction line to allow water in, and automatically closing to prevent backflow.
5. 3 (three) ppb is the Maximum Contaminant Level (MCL) for this especially nasty Synthetic Organic Compound.
6. Some use it for weight loss, others for the frequent starting and stopping of an electric motor.
8. A large quantity of money, and/or the greatest dilution of a sample with odor-free water that still yields a just-detectable odor.
9. The gathering together of fine particles after coagulation to form larger particles through gentle mixing.
10. The State regulatory body governing drinking water issues.
12. Lowering of the water table level of an unconfined aquifer by pumping of wells.
15. License class issued for very small water systems.
16. Measure of the ability of water to neutralize acids.
17. People (especially our children) can push us to this, and/or the point at which chlorine demand has been satisfied.
19. Minimum diameter for new water mains by NJDEP standards.
20. This chemical can be used in corrosion control treatment when the water shows excessive copper levels.
22. We try to keep it straight at the top of our body, and/or the measure of water energy.
23. Nickname for actress Ryan, and/or a procedure used for checking the insulation resistance on motors, and electrical wiring.
26. A rotating component of a pump, which transfers energy from the motor that drives the pump to the fluid.
28. While this can be left or right biased, and some blame this for only highlighting the "dirt", water utilities use it for its ability to remove "dirt".
31. Haloacetic Acid
33. Index reflecting the equilibrium pH of water with respect to calcium and alkalinity.
35. Prefix meaning "thousand" in the metric system and other scientific systems of measurement.
36. Jersey City and the Romans, amongst others, built these to move their water from here to there.
38. Horizontal distance required between water main and sewer main.