



MOVING WATER FORWARD

Wastewater

Cleaning and reusing valuable water resources.

Every day, billions of gallons of wastewater are generated from commercial and residential facilities worldwide, and this wastewater is treated and reapplied in ways that protect and maintain precious water supplies. Private wastewater utilities serve approximately nine million Americans every day, providing a range of innovative solutions for safely and effectively using this water in communities across the country or returning it safely to the environment.

From on-site recycling programs that re-use wastewater for toilet operation to crop irrigation and replenishing local water supplies, our members are applying wastewater solutions to address growing demand for water resources.

Achieving Excellence

Severn Trent Services • Chickasha, Oklahoma

The Chickasha project has been a successful long-term public-private partnership, requiring operation and maintenance of the city's 4.5 million-gallon-per-day (MGD) wastewater plant, 6 MGD water treatment plant, groundwater system, industrial pretreatment program, nine lift stations, booster pump station, raw water pump station, and landfill monitoring program for nearly 30 years. And in this time, the city has realized approximately \$2,000,000 in capital avoidance and operational savings.

In 1979, the City of Chickasha contracted with Severn Trent Services to address the compliance problems at the wastewater plant. From the outset of the partnership, Severn Trent mobilized to address the problems and, within one month, the plant's operational problems were corrected and a maintenance program had been established. Over the last 30 years, the operational excellence achieved through the partnership has been recognized numerous times through awards received from the Oklahoma Water Pollution Control Association (OWPCA) including being named Wastewater Treatment Plant of the Year in 2007.



SCOPE:

4.5 million-gallon-per-day (MGD) wastewater plant,
6 MGD water treatment plant

SAVINGS:

\$2,000,000 in capital
avoidance and operational
savings

DETAILS:

www.severntrentservices.com

WASTEWATER FACTS

- There are about 4,200 privately owned wastewater facilities (POTWs) in the U.S.¹
- 20% of all wastewater utilities (POTWs) in the U.S. are privately owned.²
- About 3% of Americans get wastewater service from private wastewater utilities.²
- There are more than 2,000 drinking water and wastewater facilities that are operated in public-private partnership contract arrangements.³
- These contracts regularly get renewed at better than a 93 percent renewal rate.³
- Annually, it is a \$1.5 billion industry.³

¹ US Environmental Protection Agency

² Congressional Budget Office, "Future Investment in Drinking Water and Wastewater Infrastructure," November 2002.

³ Public Works Financing, March 2008

NATIONAL ASSOCIATION
OF WATER COMPANIES:
2001 L Street, NW
Suite 850
Washington, DC 20036
† 202.833.8383
f 202.331.7442

www.nawc.org

Uniquely Practical Solutions

American Water • Township of Raritan, New Jersey

While billions of gallons of wastewater are treated and recycled across the globe every day, the 850 students at the Copper Hill Elementary School get to enjoy the benefits of this practice firsthand. By engineering a uniquely practical and educational wastewater system on-site, American Water allows Copper Hill students and faculty to use and reuse their own water at an impressive rate.

Nearly 80 percent of the school's daily wastewater production (about 15,000 gallons) is treated and reclaimed by the American Water system and used to keep the toilets flushing in the 123,000 square foot elementary school. The remaining water, which meets all state environmental standards, is recharged into the groundwater on school grounds. American Water designed the Copper Hill system in 1996 and continues to treat and recycle school wastewater today.



SCOPE:

123,000 sq ft facility with a uniquely practical solution

SAVINGS:

Nearly 80% of wastewater is reclaimed

DETAILS:

www.amwater.com

Sensitive Ecosystems

Middlesex Water • Milton, Delaware

The state of Delaware has 28 miles of coastline and many environmentally sensitive areas in close proximity. The small town of Milton, Delaware, only a few miles from the Atlantic Ocean, is one of them. So when the community required an affordable wastewater solution to meet the current and future needs of Milton residents, they turned to the Middlesex Water Company.

The company developed a brand new state-of-the-art-facility with the capacity to serve existing residents and potential new communities in surrounding areas. Using oxidation ditch technology, Middlesex Water's Tidewater Utilities provided Milton with a customized solution to meet their wastewater needs and the high standards of environmental quality the region demands.



OVERVIEW:

Oxidation ditch technology benefits coastal community

BENEFITS:

Protects environmentally sensitive coastline

DETAILS:

www.middlesexwater.com

About the NAWC: The NAWC is the voice of the private water industry and the only organization that represents this group of quality water service providers, innovation drivers and responsible partners. In conjunction with our members, we engage with others looking for fresh and powerful solutions to water-related challenges.

We invite you to contact us to learn more about the private water industry and the solutions our members are creating. Together, we're moving water forward.

CALL: 202.833.8383 to speak about a wide range of water issues

VISIT: www.nawc.org for access to additional resources

JOIN:    for the very latest information

