



The Role of Asset Management in Rates and Finance of Small Drinking Water Systems

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Water Finance 101



Session Objectives

- Learn how to think about your water system as a financial entity
- Understand some basic financial facts about water systems across the country

Public Water System Characteristics

- These utilities are enterprises
- They raise bulk of their revenues generally from bills and other fees
- They have a high percentage of fixed costs
- They protect public health and environment
- They are service industries
- They are production industries
- They are self-regulating monopolies
- They are balanced by democracy



ACCOUNTING

Government Accounting

- GAAP Generally Accepted Accounting Principles
 - establishes the rules & conventions that guide the form and content of general-purpose financial statements
- GASB Governmental Accounting Standards Board
 - the primary standard-setting authority for gov't, excluding the federal gov't



Fund Accounting

- An accounting system that is unique to state & local gov't
- A government's resources are segregated into categories, (i.e. "funds") to identify both the source of funds and the use of funds
- State and local governments use three broad categories of funds: *governmental* funds, *proprietary* funds and *fiduciary* funds







Fund Accounting



Fund Accounting

- Examples of Government Funds:
 - General Fund each gov't has <u>one</u> account for all resources that are not required to be accounted for in other funds. Includes most major gov't functions such as police, fire, sanitation etc.
 - special revenue established to account for resources that are legally restricted for specific purposes, e.g. lottery money for education
 - capital projects used when buying/building major capital facilities



Let's Go Back to the Basics

• What does your water system do?

Water Systems Serve Multiple Purposes Sometimes Those Purposes Conflict

1) System serves an important environmental and health purpose -- protecting community's water resources and supplying community with highest quality drinking water. 2) System serves an important **public service** – providing community with basic services that everyone in the community can afford.

 System serves as a well managed public enterprise – putting into practice forwardthinking sustainable business practices.



Water System Finance Diagram



"Ideal" Pricing Has Several Characteristics

Sometimes Those Characteristics Conflict

- Prices cover full "costs" of service
- Prices send and reinforce strategic messages
- Prices follow State's laws and policies
- Beneficiaries pay for their benefits
- Ability to pay is recognized and addressed
- Simple

Many Types of Reserve Funds

- Capital Reserve Fund—Infrastructure rehabilitation and replacement
- Repair Fund—Known, ongoing maintenance issues
- Emergency Fund—Unknown, unanticipated maintenance issues
- Rainy Day Fund—Unexpected revenue shortfalls

How Much Do You Need In Your Reserves?

- It depends
- Enough to pay for your most expensive piece of equipment?
- Enough to cover your costs if you had no revenue for two months?
- Enough to cover the projects in your capital improvement plan?



Financial Facts About Public Water Systems

In the United States, there are

157, 230

"public" drinking water systems

Possibly Confusing Terminology

 "Public" water systems are publically regulated regardless of whether they are owned by a public or private entity

EPA Divides Systems into Five Categories Based on Number People Served

- Small
 • Very Small: Up to 500

 Systems
 • Small: 501 to 3,300

 • Medium: 3,300 to 10,000

- Large Large: 10,001 to 100,000 Very Large: More than 100,000



Why does system size matter?

What's the issue with small systems?



The Infrastructure Needs Per Residential Connection are Much Greater for Small Systems



And Small Systems Have Far Higher Numbers of Annual Health Violations





Other Challenges

- Increase in mergers
- Asset-intensive systems
- Changing regulations that impact bottom line
- Backlog in capital investments

- Interruptions in supplies that hurt revenues
- Loss of major customers
- Sagging revenues
- A service or a commodity?

In Other Words...

- Water systems require a large amount of very expensive infrastructure and skilled staff
- And that infrastructure, skilled staff, and other fixed costs don't go away when customers use less water individually or collectively



Next

Presentation from Funders

Where to find these funders after today's workshop?

Funding Tables By State

Select "Funding Sources by State" under the Resources Tab.



Funding Sources by State

Click on the map below to view funding sources for each state:

Note: Some states may have additional resources listed below the map.



Click on an individual state to view funding table.

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Click here to access the following table

Georgia Water and Wastewater Funding Sources

Compiled by UNC EFC, June 2010

Organization	Program (keywords)	Purpose or Use of Funds	Application Dates	Website	Contact
Georgia Department of Community Affairs	Community Development Block Grant Program (CDBG Annual Competition) (HUD Funds) (water, sewer)	To improve housing and economic & community development for low and moderate income communities.	Typically closes at the beginning of April of each year.	<u>http://www.dca.state.ga.u</u> s/communities/CDBG/pro grams/CDBGregular.asp	Steed Robinson steed.robinson@dca.ga.gov (404) 679-3168 60 Executive Park South, NE Atlanta, GA 30329-2231
	Appalachian Regional Commission Area Development Fund (water, sewer)	To support the development and improvement of infrastructure, including water and sewer services, and the development and use of Internet access.	Closes at the beginning of April each year.	http://www.a.ga.gov/ec onomity.g/progra	James Thompson, ARC Office Director james.thompson@dca.ga.gov 404-679-1584 60 Executive Park South, N. E. Atlanta, GA 30329-2231
OneGeorgia Authority (water, sewer)	OneGeorgia Authority Equity Fund (water, sewer)	The program provides grants and loans to enhance infrastructure that creates jobs in rural areas.	Approject	http://www.onegeorgia.or g/programs/equity	Nancy Cobb, Executive Director ncobb@onegeorgia.org 478-274-7734 1202-B Hillcrest Parkway Dublin, GA 31021
USDA Rural Development	Water and Wastewater Loans and Grants (water, sewer)	Funds are for eligible composed and sever, sewer, storm sewer, and sever.	Applications received year round.	<u>http://www.rurdev.usda.g</u> ov/ga/waste.htm	Jerry M. Thomas, Program Director jerry.thomas@ga.usda.gov 706-546-2171 355 East Hancock Avenue Athens, GA 30601-2768
	Emergency Community Water Assistance Gra (water, sewer)	es in event of natural disaster or acts that cause significant damage to a ater or sewer system.	Contact Georgia state office. Applications received year round.	<u>http://www.rurdev.usda.g</u> ov/ga/	Jerry M. Thomas, Program Director jerry.thomas@ga.usda.gov 706-546-2171 355 East Hancock Avenue Athens, GA 30601-2768
	Very Low-Income Housing Repair Loans and Grants (Section 504) (individual wells, rural)	Rural Housing Programs 504 REPAIR LOANS AND GRANTS Single Family Housing makes loans and grants to provide rural residents with safe and affordable homes. Eligibility is based on adjusted household income, with loans available to low and very low income applicants.	Contact a local USDA Rural Development Office.	<u>http://www.rurdev.usda.g</u> ov/GA/rh504.htm	Ed Peace ed.peace@ga.usda.gov 706-546-2169 Stephens Federal Building 355 East Hancock Avenue Athens, GA 30601-2768

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