

#### Navigating Water Infrastructure Funding Programs - Workshop for Small Water Systems

06/01/17| Phoenix, AZ www.efcnetwork.org







This program is made possible under a cooperative agreement with the U.S. EPA.

## **Can You Sleep at Night?**

Is your system self sufficient?

**Operating Ratio** 

Are you able to cover your debt service after paying for your day to day operations?

If your customers stop paying their bills, how long can you maintain operations?

Can your system meet its short term obligations?

How much of your system's expected life has already run out?

Debt Service Coverage Ratio

Days Cash on Hand

> Current Ratio

Asset Depreciation



#### Whiteboard Video: Financial Benchmarking for Water Utilities

http://www.waterrf.org/Pages/Projects.aspx?PID=4366



#### **Recording of Prior Webinar: Key Financial Indicators**

http://efcnetwork.org/events/webinar-is-your-water-system-

financially-healthy-key-financial-indicators/





#### **Quick Review of Key Financial Indicators**

**Operating Ratio** 

**Current Ratio** 

Debt Service Coverage Ratio Days of Cash on Hand

**Asset Depreciation** 



### Is your system self-sufficient?



Operating Ratio

## **OPERATING REVENUES**





Read more: <a href="http://efc.web.unc.edu/2015/02/27/operating-ratio/">http://efc.web.unc.edu/2015/02/27/operating-ratio/</a>



### Are you able to cover your debt service after paying for your day to day operations?

### Debt Service Coverage Ratio

#### OPERATING REVENUES - OPERATING EXPENSES (EXCLUDING DEPRECIATION)

#### PRINCIPAL INTEREST PAYMENTS ON LONG TERM DEBT

Read more: <a href="http://efc.web.unc.edu/2015/04/23/debt-service-coverage-ratio/">http://efc.web.unc.edu/2015/04/23/debt-service-coverage-ratio/</a>



# Can your system meet its short term obligations?



#### UNRESTRICTED CURRENT ASSETS EXCLUDING INVENTORIES AND PREPAID ITEMS

#### CURRENT LIABILITIES

Read more: <a href="http://efc.web.unc.edu/2015/10/01/key-indicator-current-ratio/">http://efc.web.unc.edu/2015/10/01/key-indicator-current-ratio/</a>



### If your customers stop paying their bills, how long can you maintain operations?



# Days Cash on Hand

#### UNRESTRICTED CASH AND INVESTMENTS

#### OPERATING EXPENSES EXCLUDING DEPRECIATION & AMORTIZATION / 365

Read more: <a href="http://efc.web.unc.edu/2015/06/24/days-cash-on-hand/">http://efc.web.unc.edu/2015/06/24/days-cash-on-hand/</a>



# How much of your system's expected life has already run out?



# Asset Depreciation

= Accumulated Depreciation Gross Plant and Equipment

Caveat: this indicator is only as accurate as your depreciation schedule, and even then historic pricing is likely to distort the results.

### Where Do We Get Started?

- Local governments: audited financial statements
- Non-governments: balance sheets, shareholder reports, annual reports, etc.

BAVARIA STATEMENT OF NET ASSETS PROPRIETARY FUND JUNE 30, 2011									
Assets	Water and Server								
Current Assets:	Enterprise Fund								
Cash - openting	s 568.061 - C								
Accounts Receivable (Net)	66,346								
Protsaid Insurance	10 189 10								
Total Correct Assets	640,263 JS								
Noteument Assats:	dulub - C								
Restricted cash	177,208								
Capital assets	5.0 ( <b>1</b> 000								
Land	209,556								
Buildings	22.982								
improvements other than buildings	5,873,769 (9)								
Machinery and equipment	896,073								
Construction in program	1,454,079								
Loss: Accumulated depreciation	(2.883,225) - (8)								
Defenred Charge	30,833								
Tetal noncurrent assets	5,781,215								
Total Assets	6,421,478								
Liabilities									
Current Linbilities:									
Accounts Payable	21,090								
Accrued Espenses	2,767								
Due to Other Funda	. 8,176								
Castomer Deposits	62,625								
Deferred Subsidy Revenue	460,005								
Current Portion of Long Tarm Debt Total Current Ligbilities	343,811 - 6								
Noncurrent Liabilities:	308,474 - 0								
Compensated Absonses	15,605								
Revenue Bonds (Net of current portion)	233,357								
Notes Payable (Net of current portion)	640,873								
Total Noncorrent Liabilities	889,925								
Total Liabilities	1,738,399								
Fund Net assets									
invested in capital asnets, net of related debt	4,355,133								
Restricted for debt service	114,583								
Unrestricted	163,363								
Fotal fund net assets	\$ 4.633.079								

# Financial Health Checkup for Water

#### http://efc.sog.unc.edu ort Gts://efcnetwork.org

Find the most up-to-date version in Resources / Tools

#### **Financial Health Checkup for Water Utilities**

ENVIRONMENTAL FINANCE CENTER Developed by the Environmental Finance Center at the University of North Carolina, Chapel Hill http://ef.sourc.edu

Smart Management for Small Water Systems	
	Environmental Finance

A resource for water systems through the Environmental Finance Center Network's Smart Management for Small Water Systems project, funded under a cooperative agreement with the U.S. Environmental Protection. http://efcnetwork.org

#### What does this tool do?

This tool assists in the assessment of the financial performance of a water (and/or wastewater) utility fund. Financial data readily available in annual financial statements are copied into this tool, which computes key financial indicators that measure a variety of important metrics, such as the ability to pay debt service, availability of cash to pay for operations and maintenance, the sufficiency of revenues generated, etc. Each metric is compared against targets that are specified by the user. The tool demonstrates the financial strengths and weaknesses of the utility fund in the past 5 years.

#### Features:

Simple data entry (uses data already reported in your audited financial statements) 6 financial performance indicators with explanations Set your own targets Assessment of last year's financial ratios, improvements since previous year, and five-year trends Guided navigation through hyperlinked images

#### What are financial indicators?

Watch a whiteboard video explaining financial performance indicators in lay terms.



C	Operating	Ratio,	including	deprecia	tion
2.00					
1.80 -					
1.60 -					
140 -					
1.20 -					
1.00					
0.80 -					
0.60 -					
0.40					
0.20 -					
0.00					
2010	2011		2012	2013	2014



#### Assessment for Town of Anywhere



Did you generate the revenues needed to pay for O&M and existing debt servic

Excel<sup>®</sup>- based tool

Free to use

Created by the Environmental Finance Center at the University of North Carolina, Chapel Hill's School of Government A resource for water systems from the EFCN's Smart Management for Small Water Systems project funded under a cooperative agreement with the U.S. E.P.A.



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# Why Care About This?

- Funders and ratings agencies care about this
- As you think about the future needs of your system, you have to know where you are starting from



## **So**....

- Now that we know where we are, let's decide where we are going...
- How do we estimate the future costs and revenues?