Rates, Ratings and Loans: Strategic Leveraging of Your Asset Management Program

An event from the Asset Management Committee



Heather Himmelberger Southwest Environmental Finance Center at the University of New Mexico Part 1: Rate Justification and Asset Management



Theodore A. Chapman Standard & Poors Part 3: Bond Ratings and Asset Management Programs



Tom Entsminger
Texas Water Development Board
Part 2: Asset Management Planning's
Contributions to SRF Funding

Go to https://www.weat.org/event/am-webinar-2019-3-27/2019-03-27 to view the webinar, presentation slides, multi-site user sign in sheets, and webinar questions for CEU credit.

Water Environment Association of Texas

1



Heather Himmelberger, PE

Heather Himmelberger is Director of the Southwest Environmental Finance Center at the University of New Mexico. For the past 15 years, she has been a staunch advocate for asset management practices, delivering more than 200 training programs throughout the U.S., as well as assisting utilities of all sizes. A registered professional engineer enrolled in UNM's PhD program in civil engineering, Heather is a member of the EPA's Environmental Financial Advisory Board and the American Water Works Association's Asset Management Committee.



3

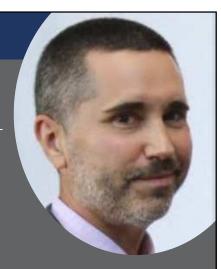
Tom Entsminger

Tom Entsminger is Manager of Program Administration for the Texas Water Development Board. Tom plays a wide-ranging role in managing TWDB's water-related infrastructure financing programs. He also served as State Programs Coordinator for the State Water Implementation Fund for Texas (SWIFT). Prior to joining TWDB, Tom spent several years working with the Community Development Block Grant (CDBG) program at the Texas Department of Agriculture, specializing in drought recovery and Colonia assistance programs. He also is a former grant writer for the County of El Paso.





Ted Chapman is a Senior Director for Standard & Poors, providing analysis to the investment community on the credit worthiness of local and state governments. He specializes in sewer, water, electric and gas utilities. Named a "Municipal All-Star" by Smith's Research and Gradings, Ted was named to the EPA's Financial Advisory Board in 2017. He is a member of the American Water Works Association's Finance, Accounting and Management Controls Committee and is a former budget officer for El Paso Water Utilities. Ted has a Master of Public Administration and a Bachelor of Arts in political science from the University of Texas at El Paso.



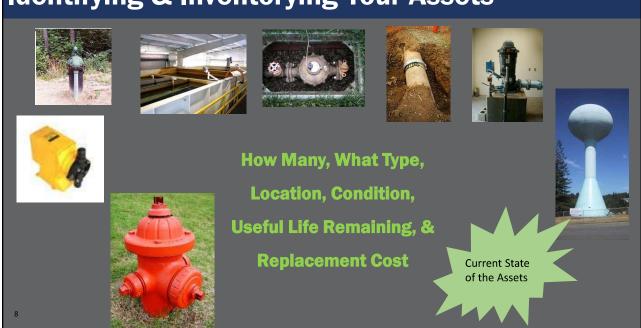
Ted Chapma
Senior Director, US Public Finance Infrastructure Grou
S&P Global Rating
+1 (214) 871-140
Theodore.Chapman@spglobal.cor

5

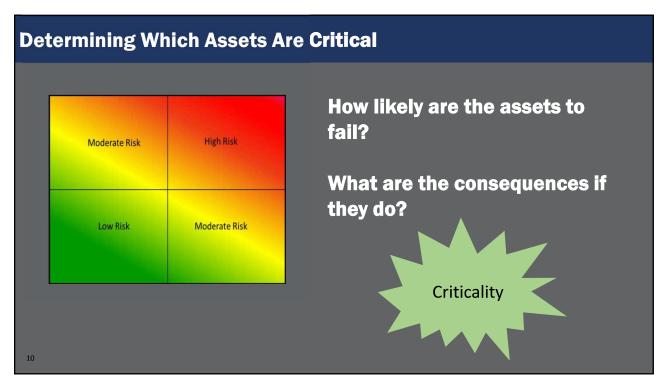


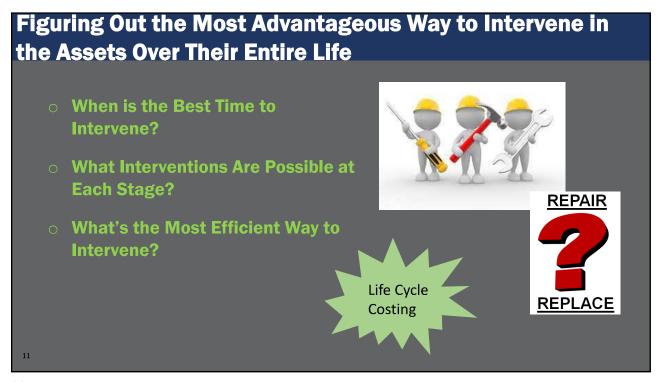


Identifying & Inventorying Your Assets



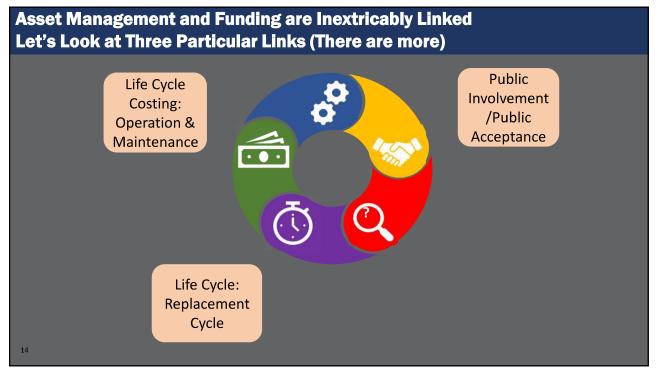


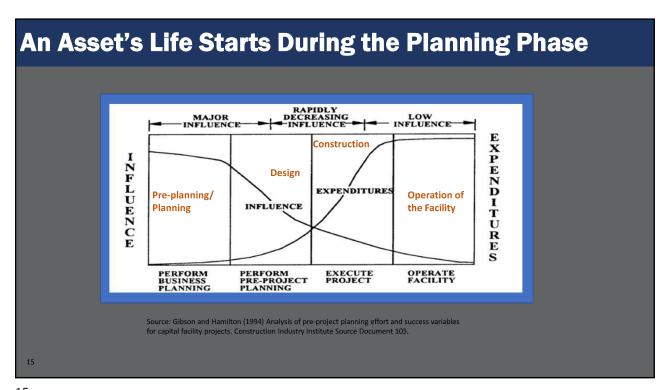


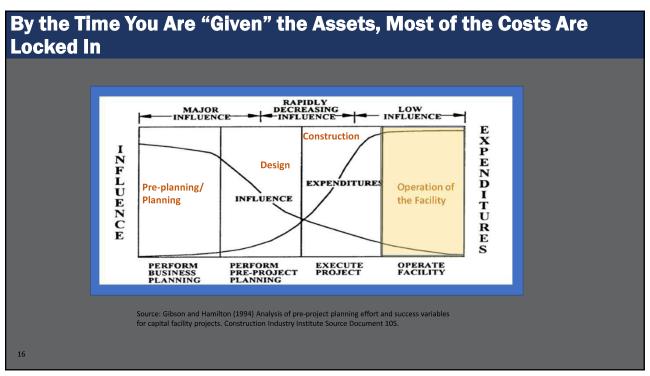






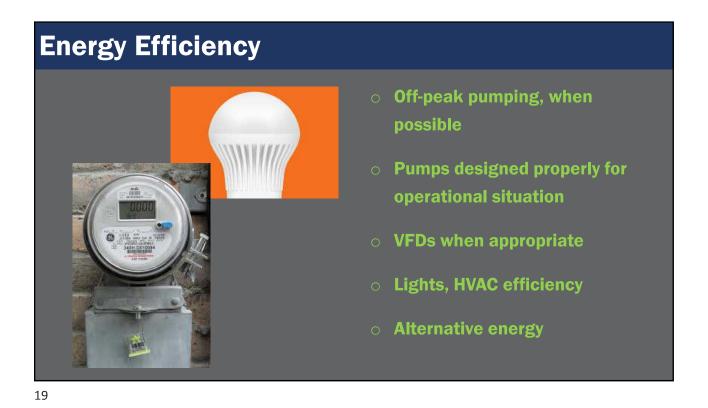












Reducing non-revenue water

Fixing leaks

Encouraging water conservation

Financial Efficiency



- Manual vs. automated operation
- Operation matches the needs of the customers
- Running equipment in optimal operational range

21

Regulatory Efficiency



- Operate the system to consistently meet regulatory requirements
 - Primary Contaminants
 - o Pressure
 - Residual Chlorine



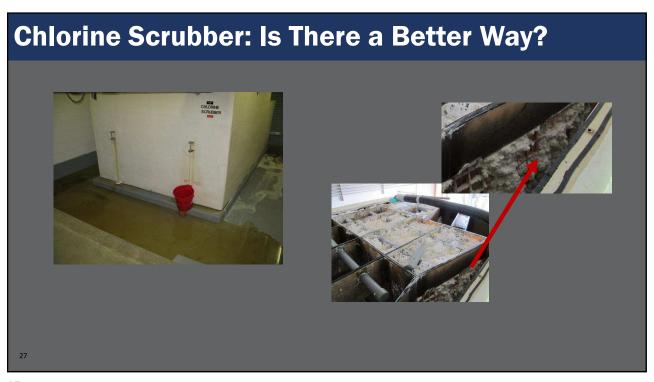
Another Concept: Don't Just Fix It, Improve It!

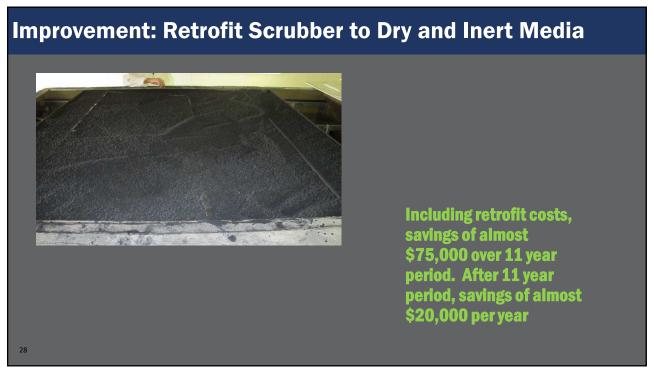
But we've always done it this way!

Use the knowledge you have to make things better next time.

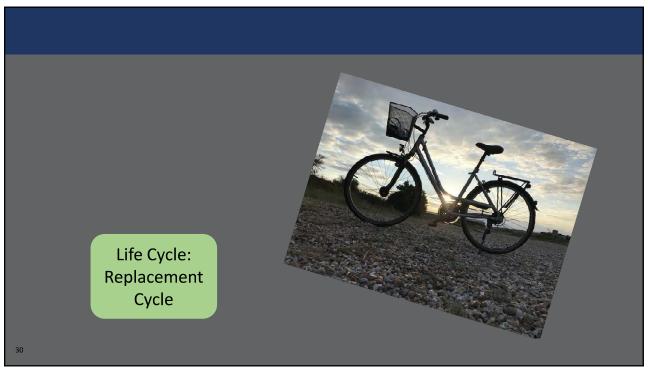


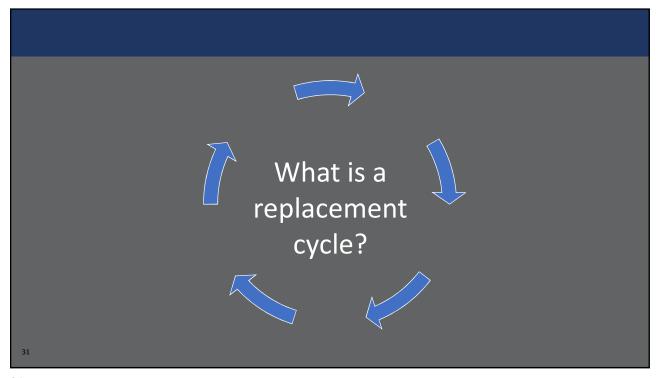


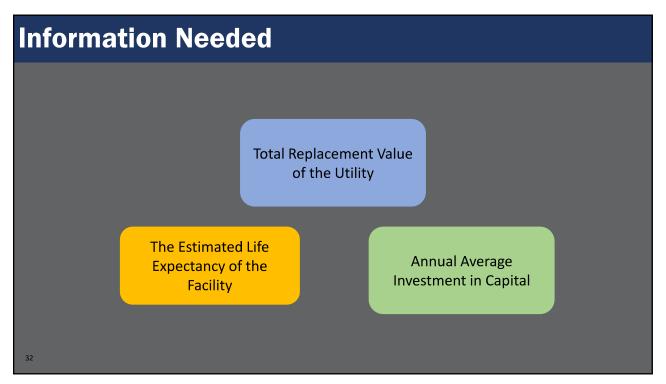


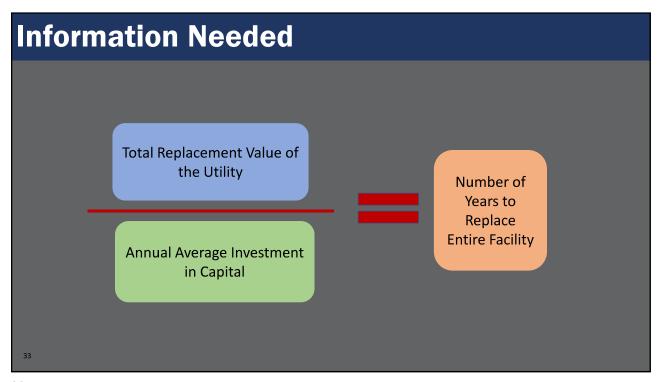


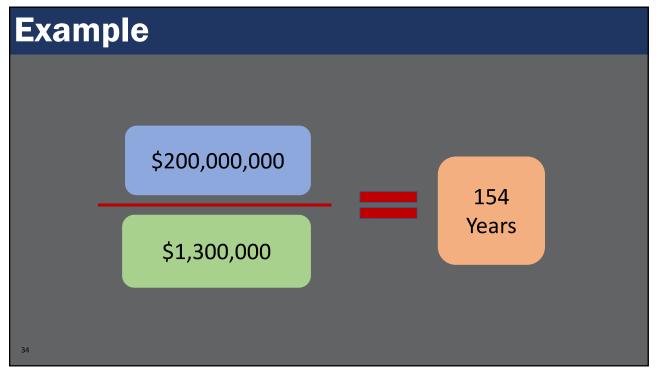


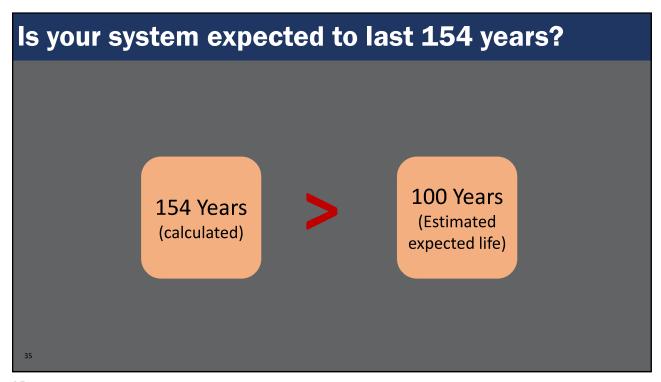




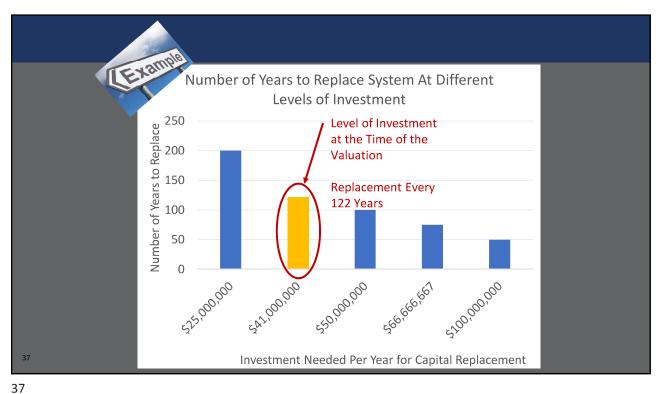


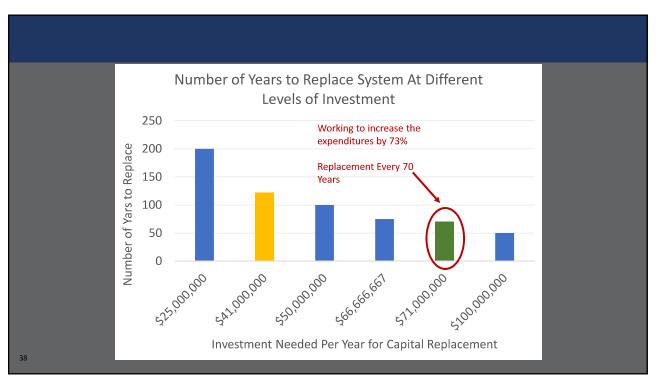


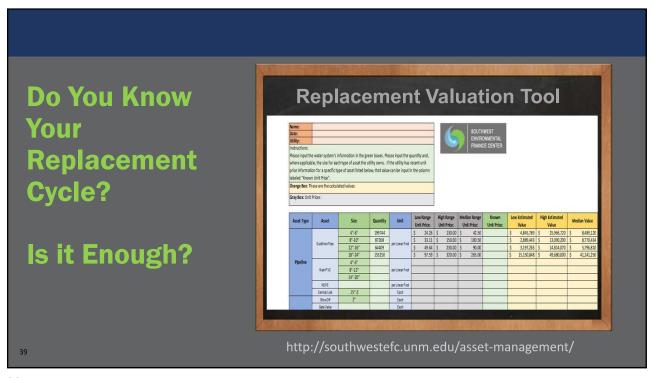




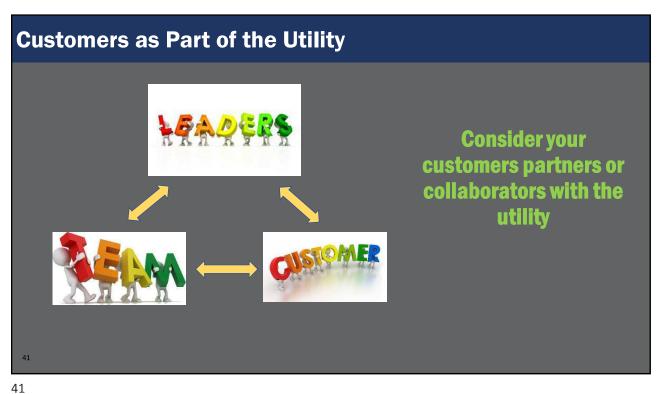


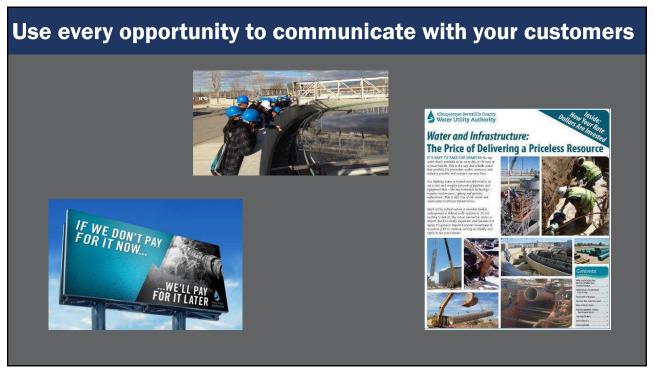












Don't Forget About the CRR

- **○CCR's are now once a year** communication with customers, changes in the laws will make them twice a year
- **Ouse the CCR as a way to communicate** how well you are meeting the level of service (show your progress towards meeting the goals)

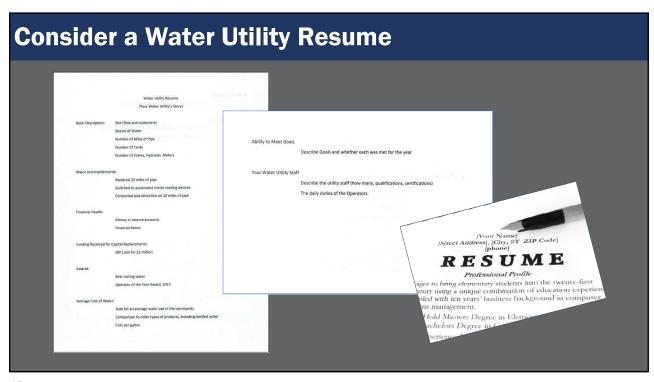


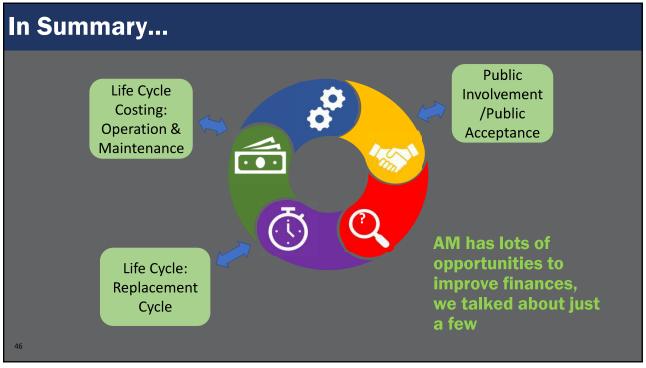
43

Why Care About Informing and Involving Customers? Increase customers'.... support for the utility willingness to pay rates support for rate increases willingness to pass bond issues for capital Helps to Stabilize finances for the

44

utility







Quick TWDB Background

- Created in 1957
- Several financial assistance programs for water, wastewater, flood control, and related projects
- **Output** More than just the tangible infrastructure!
- Also involved in planning, mapping, and research

Planning Ahead Makes Sense If you fail to plan, you plan to fail!

49

Planning & Asset Management at TWDB

- State Water Plan
- Water Conservation & Drought Contingency plan requirements
- Water loss audit thresholds
- State Revolving Fund (SRF) programs:
 - Stated program goals
 - Project ranking
- AMPSS pilot program

SRF Programs

- Subsidized interest rates
- Partial principal forgiveness:
 - Green projects
 - Disadvantaged communities
 - Very Small Systems (DWSRF only)
 - Emergencies

51

SRF Support for Asset Management

- Support for effective utility management practices is a stated
 SRF program goal in Texas
- Asset management plans are eligible for SRF financing and included in many funded projects
- SRF project ranking includes points for asset management plan development & implementation

State Revolving Fund (SRF) Programs CWSRF DWSRF Effective Management Effective Management Rating Criteria An adopted asset management plan that contains an inventory of assets, an assessment of the criticality and condition of assets, a prioritization of capital projects, and a budget. 5 pts. – Entity has adopted an asset management plan within the past 5 years that incorporates an inventory of all assets, an assessment of the criticality and condition of the assets, a Entity plans to prepare an asset management plan with completion of proposed project prioritization of capital projects needed, and a budget 0.50 - Entity is planning to prepare an asset management plan as part of the proposed project. Providing asset management training for the entities governing body 0.50 - Asset management training has been administered to the entity's governing body and Project addresses a specific goal in a water conservation plan 1.00 Project involves the use of reclaimed water 1.00 - Proposed project addresses a specific goal in a water conservation plan. Project addresses a specific goal in an energy assessment, audit, or optimization study conducted within the past three years 1.00 Proposed project addresses a specific goal in an energy assessment, audit, or optimization study conducted within the past three years. Project is consistent with a municipal and/or state watershed 2.00 project is consistent with a minuticipal analors state watershed protection plan, water efficiency plan, integrated water resource management plan, a regional facility plan, regionalization or consolidation plan, or an approved Total Maximum Daily Load implementation plan 2 pts. - Project is consistent with a state or regional water plan, integrated water resource management plan, regional facility plan, regionalization or consolidation plan, or a TMDL implementation plan. 8.5 points 53

53

Asset Management Program for Small Systems (AMPSS)

- Grants for development of Asset Management Plans
- 6 communities around the state working with engineering firms
- Focus on smaller, primarily rural communities with household income below the statewide median
- \$75k per contract

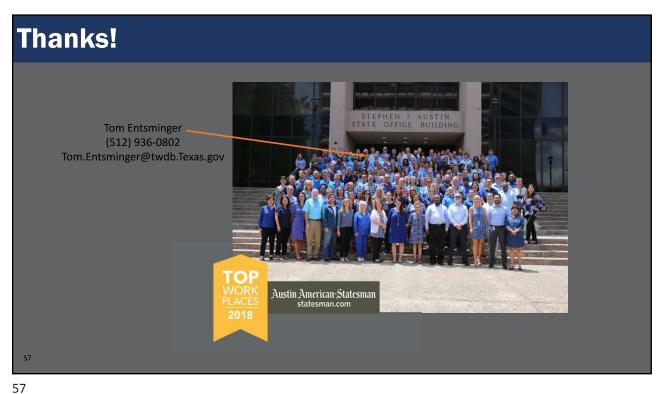
AMPSS Deliverables

- Asset Management Plan for the community's water or wastewater system
- Source assessment/Sustainable system planning
- Operations & maintenance/Compliance manuals
- Training on monitoring
- Implementation report

55

AMPSS: Looking Ahead

- Expected to continue & expand
- o Future selection criteria not yet decided
- Interested? Please stay tuned!
 - Web: www.twdb.Texas.gov
 - Contact staff
 - Social media
 - Monthly workshops

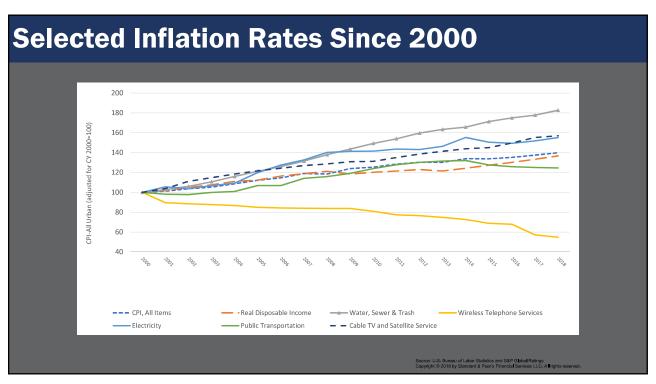




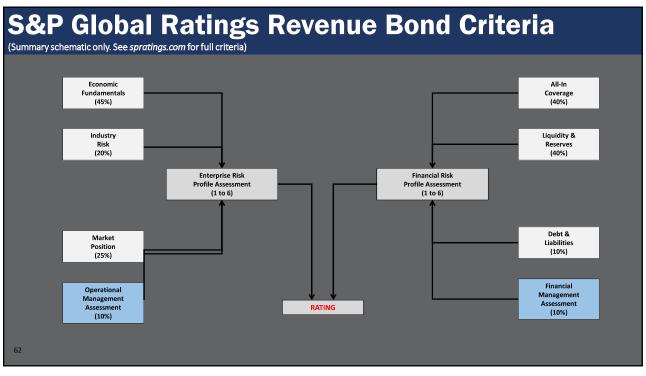
Am I Managing for Main Street or Wall Street?

- o It is generally too expensive to just pay for R&R and some types of cap-ex solely with cash
- Whether you borrow via the SRF, bond market or a direct relationship with a counterpart (bank, private equity, syndicate, etc.) the lender wants to know <u>ALL</u> about your utility
 - o Financial health
 - Operations
 - Management and governance teams
- o There is a clear economic benefit to your utility to make a good, long-lasting impression
 - o A lot like your mortgage
- These lenders might choose to supplement their own due diligence with outside research and opinions like a rating agency

59







What Can You Really Affect As a Utility Manager?

Probably

- Operations
 - System Condition
 - · Asset Management
- Risk Management
 - · Environmental Stewardship
 - Resilience
 - Cyber and Other Emerging Risks
- Financial Management
 - Cash Flow
 - · Cash Reserves
 - Forward-Looking Plans
 - Op-Ex
 - Cap-Ex
 - Future Rate Adjustments

Maybe

- Attracting and Retaining Staff
- Mentoring and Succession Planning
- Public Outreach and Support
- · Pass-Thru Costs

Probably Not

- Weather/Climate/ Hydrology
- Regulations
- Macroeconomic Conditions and Economic Development
- Demographics
- Trends in the Number of Metered Accounts

63

Does This Sound Familiar?

S&P's Management Assessments

- Asset Adequacy/Identifying Operating Risks
- o Organizational Effectiveness, Mgmt. Expertise
- Rate Setting Practices
- o Revenue & Expense Assumptions
- Budget Monitoring & Interim Reporting
- o Long-Term Financial Planning
- o Long-Term Capital Planning & Asset Mgmt.
- o Investments & Liquidity Policies
- $\circ \ \mathsf{Debt} \ \mathsf{Mgmt.} \ \mathsf{Policies}$
- o Transparency & Accountability

EUM

- Product Quality
- o Customer Satisfaction
- Stakeholder Understanding & Support
- o Financial Viability
- Operational Optimization
- o Employee Leadership & Development
- o Infrastructure Strategy and Performance
- o Community Sustainability
- Water Resource Sustainability

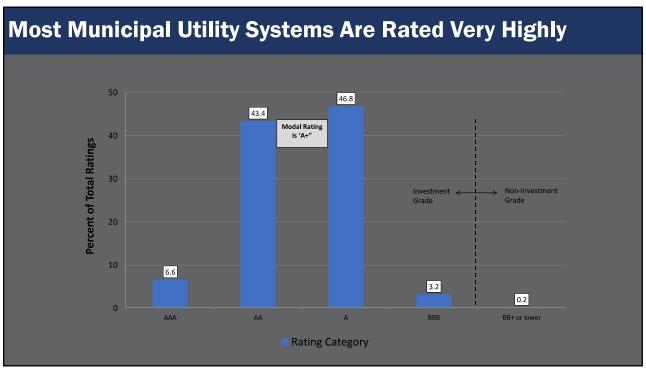
Q: How well aligned are the timing and magnitude of approved rate increases versus what was requested?

A: Credibility and objectivity of requests can be very helpful. We've seen that AM systems can provide your decision makers with that data

64

Examples of Questions You Can Expect to be Asked DW **CW** Age of meters ○ I&I and overflows Lost water NPDES requirements Apparent and real, per M36 Nutrient removal Stormwater, if applicable SDWA issues o Ex. DBP, frequent boil water notices o In TX, lead and PFAS less problematic **Other** Drought contingencies Climate risk management o Reuse, IDPR or even DPR o Resilience, adaptation and mitigation Source water Cybersecurity Quantity, quality, protection

65



Copyright © 2019 by Standard & Poor's Financial Services LLC. All rights reserved.

No content (including ratings, credit-related analyses and data, valuations, model, software, or other application or output therefrom) or any part thereof (Content) may be modified, reverse engineered, reproduced, or distributed in any form by any means, or stored in a database or retrieval system, without the prior written permission of Standard & Poor's Financial Services LLC or its affiliates (collectively, S&P). The Content shall not be used for any unlawful or unauthorized purposes. S&P and any third-party provideers, as well as their directors, officers, shareholders, employees, or agents (collectively S&P Parties) do not guarantee the accuracy, completeness, timeliness, or availability of the Content. S&P Parties are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, for the results obtained from the use of the Content, or for the security or maintenance of any data input by the user. The Content is provided on an "as is" basis. S&P PARTIES DISCLAIM ANY AND ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULARA PURPOSE OR USE, FREEDOM FROM BUGS, SOFTWARE ERRORS OR DEFECTS, THAT THE CONTENT SULTIONING WILL BE UNINTERNUTED, OR THAT THE CONTENT SULTIONING WILL BE UNINTERNUTED. OR THAT THE CONTENT SULTIONING WILL BE UNINTERNUTED, OR THAT THE CONTENT SULTIONING WILL BE UNINTERNUTED. OR THAT THE CONTENT SULTIONING SULTION. In one overt shall Sale Base to any party for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including, without limitation, lost income or lost profits and opportunity costs or losses caused by negligence) in connection

Credit-related and other analyses, including ratings, and statements in the Content are statements of opinion as of the date they are expressed and not statements of fact. S&P's opinions, analyses, and rating acknowledgment decisions (described below) are not recommendations to purchase, hold, or sell any securities or to make any investment decisions, and do not address the suitability of any security. S&P assum no obligation to update the Content following publication in any form or format. The Content should not be relied on and is not a substitute for the skill, judgment, and experience of the user, its management, employees, advisors, and/or clients when making investment and other business decisions. S&P does not act as a fluctuary or an investment advisor except where registered as such. While S&P has obtained information from sources it believes to be reliable, S&P does not perform an audit and undertakes no duty of due diligence or independent verification of any information it receives.

To the extent that regulatory authorities allow a rating agency to acknowledge in one jurisdiction a rating issued in another jurisdiction for certain regulatory purposes, S&P reserves the right to assign, withdraw or suspend such acknowledgment at any time and in its sole discretion. S&P Parties disclaim any duty whatsoever arising out of the assignment, withdrawal, or suspension of an acknowledgment as well as any liability for any damage alleged to have been suffered on account thereof.

S&P keeps certain activities of its business units separate from each other in order to preserve the independence and objectivity of their respective activities. As a result, certain business units of S&P may have information that is not available to other S&P business units. S&P has established policies and procedures to maintain the confidentiality of certain nonpublic information received in connection with each analytical process.

S&P may receive compensation for its ratings and certain analyses, normally from issuers or underwriters of securities or from obligors. S&P reserves the right to disseminate its opinions and analyses. S&P's public ratings and analyses are made available on its Web sites, and its receive of charge), and some sites of charge (subscription), and may be distributed through other means, including via S&P publications and third-party redistributors.

Additional information about our ratings fees is available at

STANDARD & POOR'S, S&P and RATINGSDIRECT are registered trademarks of Standard & Poor's Financial Services LLC.

67

CEU Questions

Go to

webinar-2019-3-27/2019-03-27 to view the webinar, presentation slides, multi-site user sign in sheets, and webinar questions for CEU credit.

- Do I need to have an asset management plan before applying for financial assistance from TWDB?
 - Answer: No, you can request funds for a plan in your application. In some cases, asset management may help as a scoring factor, but usually not enough to make the difference between being funded or not.
- Why would asset management be of interest to Wall Street investors or even relevant to the utility's credit rating?
 - Answer: For any utility, whether municipally-owned or investor-owned, the better condition its assets are in, the more likely it is that its overall operational AND financial health will also be solid. Our rating opinion is our overall view of general creditworthiness and relative risk to the bondholders because those assets are expensive. This is a capital-intensive industry. The local utility is probably not going to be able to just 'write a check' for renewals and replacements or even have growth pay 100% for growth. Whether your utility looks to the state DWSRF/CWSRF or even the bond market, someone is investing their money in you when you borrow. They're going to want to know what the relative risks are, just as much as wanting to know about your strengths and weaknesses.

68

CEU Questions

Go to

webinar-2019-3-27/2019-03-27 to view the webinar, presentation slides, multi-site user sign in sheets, and webinar questions for CEU credit.

- Why is it important to determine your life-cycle replacement cost?
 - Answer: It is very important to know whether you are investing enough money in infrastructure to keep up with the decay in the system. Once you understand your "gap" between what you are currently spending and what you need to spend it gives you a chance to have conversations at all levels within the organization and with customers on ways to reduce the gap and increase the spending level. On the reduction side, improving efficiency through asset management is one way to reduce costs. On the increasing side, it provides a chance to get elected leaders on board with ensuring the long-term sustainability of the water and/or wastewater system. One consideration is that it is not possible to increase the annual spending rapidly. It takes time to build up to a higher level of expenditure and this should be thought about as you are trying to increase the level of investment.

69

69

Rates, Ratings and Loans: Strategic Leveraging of Your Asset Management Program

An event from the Asset Management Committee



Heather Himmelberger Southwest Environmental Finance Center at the University of New Mexico Part 1: Rate Justification and Asset Management



Theodore A. Chapman Standard & Poors Part 3: Bond Ratings and Asset Management Programs



Tom Entsminger
Texas Water Development Board
Part 2: Asset Management Planning's
Contributions to SRF Funding

Go to https://www.weat.org/event/am-webinar-2019-3-27/2019-03-27 to view the webinar, presentation slides, multi-site user sign in sheets, and webinar questions for CEU credit.

Water Environment Association of Texas