Asset Management

Ohio EPA Division of Drinking and **Environmental Specialist Emily Pohlmeyer Ground Waters**

Overview

- Benefits of Asset Management
- Senate Bill 2
- Rule Making
- Implementation Plan
- Funding





What Can Asset Management Do for

You?

- Can help raise capital to improve
- Operation and maintenance on a frequency the assets that makes sense to get the maximum life of infrastructure
- Better response to emergencies (contingency plan)
- Sets aside reserves to replace critical infrastructure in emergencies



What Can Asset Management Do for Suo

- Allows a system to plan ahead for future improvements and adjust rates gradually to meet future financial needs
- Allows a system to adequately address the health, safety and welfare of their customers
- replacement needed, adequate insured \$\$\$ Establishes real costs of infrastructure if



What Can Asset Management Do for **?**uoY

- Having an asset management program can give a system bonus points when their loan nomination is scored
- Make staying in compliance easier
- Save the system money!



Ohio Senate Bill 2

- Requiring Ongoing Asset Management Efforts by Public Water Systems
- Strengthening Efforts to Protect Lake Erie
- **Encouraging Better Use of Dredge Materials**
- Requiring Financial Assurance for Privately Owned Water Systems
- **Ensuring Responsible Disposal of Construction and** Demolition Debris
- Strengthening the State's Ability to Clean Up **Abandoned Landfills**



Drinking Water Issues In Senate Bill 2

- Asset Management required at all public water systems
- assurance flexibility Expanded escrow and added financial
- Set up receivership process



Asset Management Provisions

- Components:
- Inventory and evaluation of all assets
- Operation and maintenance programs
- Emergency preparedness and contingency planning
- program
- Criteria and timelines for infrastructure rehabilitation and replacement
- Approved capacity projections and capital improvement planning
- Long-term funding strategy to support asset management program implementation
- SB 2 became effective October 6, 2017



Draft Asset Management Rules

- To mesh with the proposed statutory change and financial capability of all water systems our existing capability rules, we have drafted rules to address the managerial, technical and
- We will follow our typical rulemaking process, including stakeholder outreach and public comment
- Written asset management programs required by October 1, 2018



Managerial Capability

- Documentation of ownership
- system Brief non-technical description of the water Documentation of a certified operator



Managerial Capability

- Operating plan
- Written procedures
- Inventory of external contacts
- Internal contracting and purchasing procedures (routine and emergency)



Technical Capability

- Map
- Inventory of assets
- Evaluation of assets
- Level of service goals
- Metrics



Technical Capability

- Operation and maintenance programs
- Approved capacity projections
- Criteria and timeline for rehabilitation and replacement
- Capital improvement plan



Financial Capability

- years projected) Pro-forma statements (5 years previous and 5
- Income statement
- Balance sheet
- Statement of cash flow



Financial Capability

- Amortization schedule for outstanding debt
- Capitalization terms of debt
- Current water rate ordinance and triennial water rate evaluation
- Documentation of all customers billed per metered water usage
- rating Information demonstrating bond or credit



Pulling It All Together

- Most systems have a lot of this information, they place just need to write it down and gather it in one
- Systems can do a lot of this without outside help, their program better saving them money and helping them understand
- a tracking system An asset management program is more than just
- They don't have to have a software system to systems track everything, but it helps for more complex hio

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Implementation Plan

- Prioritizing systems requesting SRF loans, obvious capability issues systems under enforcement and systems with
- These systems will undergo a capability screening to identify areas of deficiency
- The systems' asset management program will need to address these areas



Purpose of Capability Screening

- We want to get all responsible parties for the hear the same thing water system in the same room so they all
- We also want them to understand where each responsibilities water system and understand their respective of them fits into the overall operation of the



Capability Screening Tool

Tool has 12 categories of questions for system policies, compliance and water loss community water systems: governing body, budgeting, rates, reserve accounts, water emergency preparedness, asset management, water protection, water supply and demand, 0&M/preventative maintenance, source



Capability Screening Tool

• Governing Body:

- public and announced in advance? Does the governing body hold meetings that are open to the
- Is there an organizational chart for the governing body with clearly defined job duties and assigned individuals?
- Do operators, the governing body and other employees regularly attend training to enable them to maintain their skills?
- Is the governing body informed and responsive to issues water loss, O&M, water quality or compliance? related to drinking water such as production, capacity,



Capability Screening Tool

0&M/Preventative Maintenance

- plan? Does the system have an up-to-date and written O&M
- water mains, and inspecting/cleaning storage tanks (as Does the system implement an adequate preventative applicable)? maintenance plan, including exercising valves, flushing
- Does the system routinely maintain, repair or replace equipment prior to failure?
- chlorinator, leaks, low pressure or main breaks)? Does the system experience routine failures (e.g.,

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- Source Water Protection
- Does the system actively utilize an up-to-date checklist? source water protection plan/protective strategies



Water Supply and Demand

- demand and update projections on a regular basis? Does the system regularly monitor water supply and
- Is the system's approved capacity/contract adequate to meet demand over the next five years?
- If long term (>5 years) projections or other available capacity, is the system planning for this shortfall? information shows that the system will exceed approved
- If the system loses its primary water source, will the demand under normal demand conditions? combined capacity of all remaining water sources meet

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Emergency Preparedness

- Does the system have an adequate, up-to-date contingency plan that is regularly practiced and implemented when necessary?
- system components? standby electrical power source sufficient to run critical Does the water system have an operational emergency or
- Does the water system have accurate maps of the distribution system?
- source? supplemental water supply available, such as an Does the water system have an established emergency or interconnection with a neighboring system, or a second



- Asset Management
- Does the system have a comprehensive Asset years, that includes: Management Plan, updated within the last five
- asset inventory;
- criticality analysis;
- condition assessment protocols;
- criteria and timeline for replacement; and,
- O&M and funding source(s)?



- Budgeting
- Does the system have an annual budget that includes necessary reserve funds?
- Does the system have a capital improvements plan expenses? and a multi-year projection that addresses future



Rates

- Are all customers billed per metered water usage?
- Are rates and rate structures evaluated on a adjusted as necessary? routine basis (i.e., at least every 3 years) and
- Does the water system's current rate structure future costs and all necessary reserves? expenses (i.e., operations and maintenance), produce enough income to cover current

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- Reserve Accounts
- Does the water system have funding available to component if it should fail? cover the system's most expensive or critical



- Water System Policies
- Has the system adopted written policies on:
- security;
- use of system equipment;
- routine billing, including a backup billing system;
- customer deposits and payments;
- collections, customer service disconnection and shutoff notices;
- connection charges;
- customer complaints; and,
- purchasing authority?



Compliance

- If the system has/had a significant deficiency, has it been addressed or is it on an acceptable schedule to be addressed?
- Have all requirements cited in previous survey letter(s) or other correspondence been addressed?
- Is the system in compliance with the certified operator requirements of Chapter 3745-7 of the Administrative Code?
- Is the system in compliance with the backflow prevention requirements of Chapter 3745-95 of the Administrative Code?
- Has the system received MOR violations or deficiency letters in the previous twelve months?
- 3745-91 of the Administrative Code? Is the system in compliance with the plan approval requirements of Chapter
- Has the system obtained a license to operate in each of the last 5
- Is the system in compliance with all monitoring requirements?



- Water Loss
- Does a recent water audit show less than 15% unaccounted-for water loss?
- Are steps being taken to detect and address leaks?



Implementation Plan

- At the time of sanitary surveys, inspectors will initially be asking to see some basic level of service goals, metrics, etc. components, such as asset inventory, maps,
- Submission of the written asset management program will only be upon the Director's request.



Implementation

- and complexity We are developing guidance for systems, expectations will vary based on system type
- We are developing templates for very small systems



Funding for Asset Management

- Planning loans are available
- Terms of 5 years at 0% interest
- Potential for \$10,000 in principal forgiveness



Questions?

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