



# Monthly Meeting #13

## Coordinated Water System Plan Eastern Region

Southeastern Connecticut COG, 5 Connecticut Avenue, Norwich, Connecticut | June 14, 2017

# Agenda



1. Welcome & Roll Call (5 minutes)
2. Approval of May Meeting Minutes (5 minutes)
3. Formal Correspondence (5 minutes)
4. Public Comment Period (10 minutes)
5. Consider and Approve Final Recommended ESA Boundaries for 16 Municipalities (10 minutes)
6. Consider and Approve Final Recommended ESA Document to be Submitted to DPH (10 minutes)
7. Discuss Potential Upcoming ESA Modifications (15 minutes)
8. Draft State Water Plan Overview (15 minutes)
9. Integrated Report Topics (30 minutes)
10. Other Business (15 minutes)

1. Welcome and Roll Call

2. Approval of Meeting Minutes

3. Formal Correspondence

# Formal Correspondence



Date	From	To	Main Topic(s)
5/19/2017	Eastern WUCC (via DPH)	Eastern WUCC Members	Link to Final Draft ESA Document for review
6/6/2017	Montville WPCA	Eastern WUCC Officers	Montville WPCA objects to the continued allocation of ESAs between multiple parties in Montville and is prepared to address with the Eastern WUCC such matters as may be required to modify the ESA of Montville WPCA

## 4. Public Comment Period

## 5. Consider and Approve Final Recommended ESA Boundaries for 16 Municipalities

# Taking Stock



## ■ ***What Have We Accomplished?***

- ✓ A final draft Final ESA Document was released
- ✓ Statements of Confirmation have been received

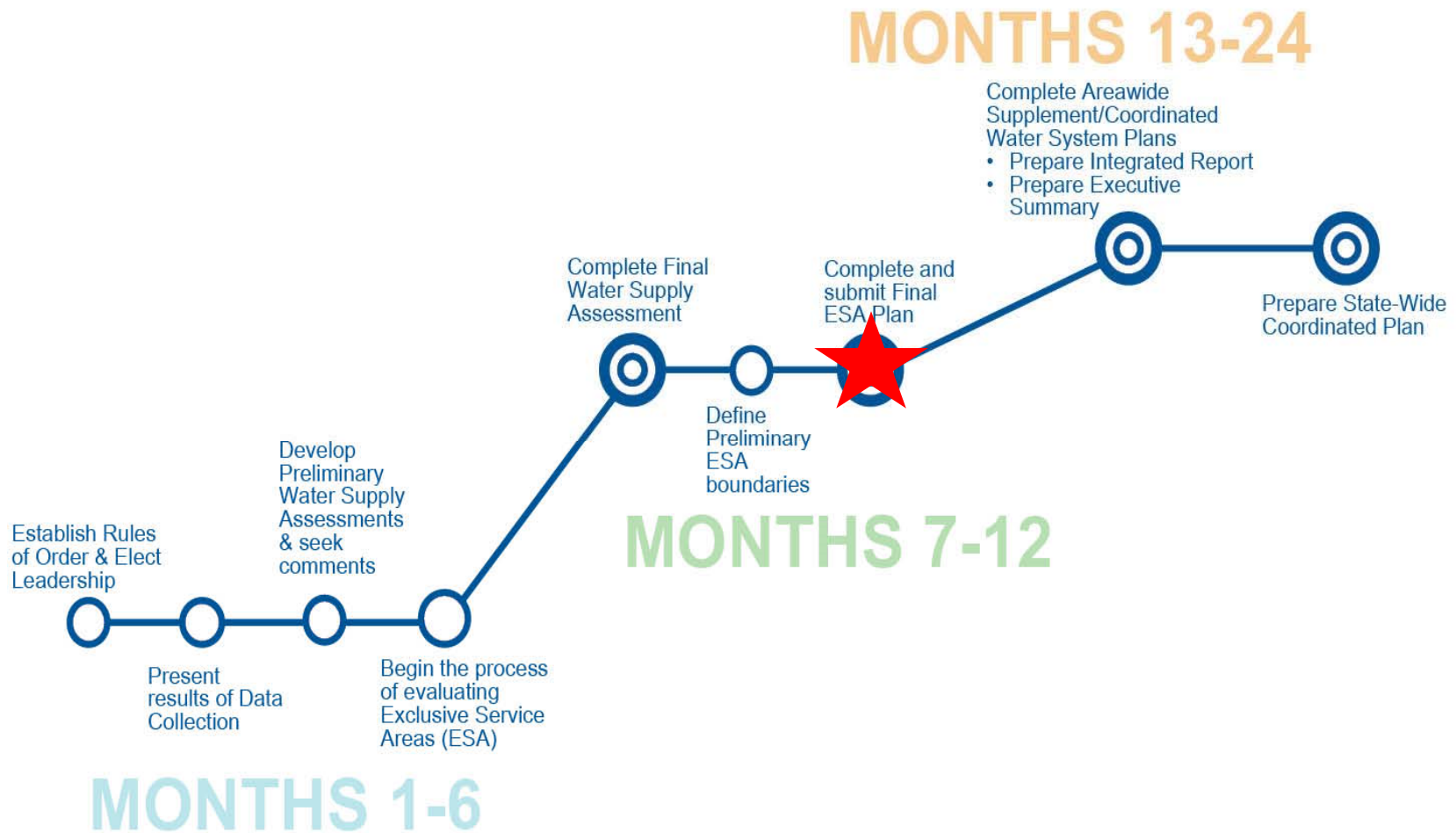
## ■ ***What Are We Doing Today?***

- ✓ Approving Final Recommended ESAs and the *Final Recommended ESA Document* for formal submission to DPH
- ✓ Taking a look at the State Water Plan (formal presentation by the Water Planning Council to follow in July)
- ✓ Introducing Integrated Report approach and data needs
- ✓ Discussing Asset Management, Source of Supply Maintenance, and Replacement

## ■ ***What's Next?***

- ✓ Submit Final ESA document
- ✓ Process ESA Modifications
- ✓ Continue work on the Integrated Report

# WUCC Time Frame





# ESA Boundaries

- No further comments received on the preliminary ESA boundaries for the 16 northern communities
- Discussion
- Motion to *“Approve the Preliminary ESA Delineations and ESA holders for the 16 northern municipalities in the Eastern PWSMA as Final Recommended ESA Delineations and ESA holders”*

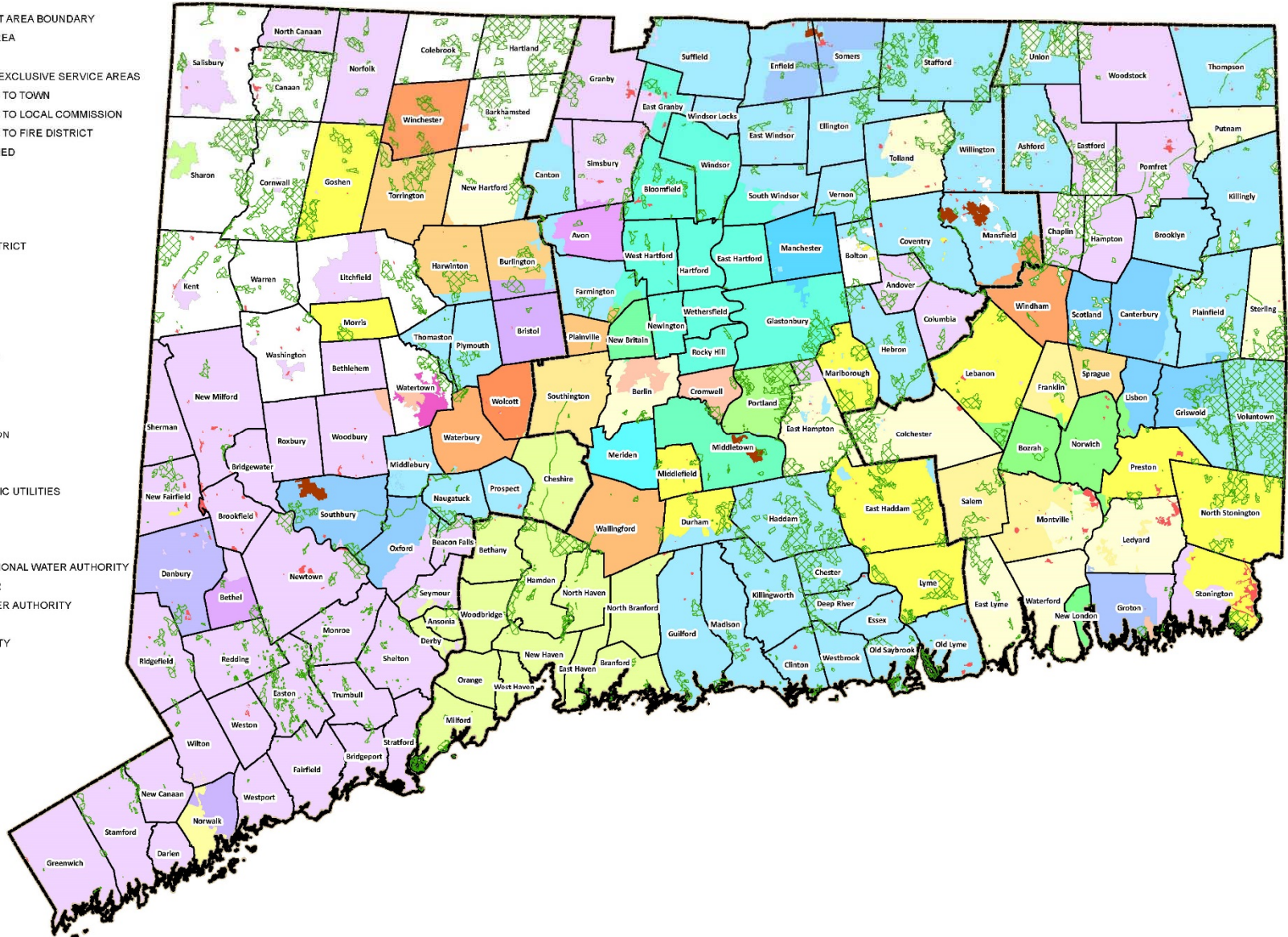


# Statewide ESA Map to Date



## Legend

- DEEP LANDS WHERE ESA BOUNDARIES MAY NOT BE ENFORCEABLE
  - MUNICIPAL BOUNDARY
  - PUBLIC WATER SUPPLY MANAGEMENT AREA BOUNDARY
  - STATE AGENCY EXISTING SERVICE AREA
- EXCLUSIVE SERVICE AREAS**
- OTHER COMMUNITY WATER SYSTEM EXCLUSIVE SERVICE AREAS
  - EXCLUSIVE SERVICE AREA ASSIGNED TO TOWN
  - EXCLUSIVE SERVICE AREA ASSIGNED TO LOCAL COMMISSION
  - EXCLUSIVE SERVICE AREA ASSIGNED TO FIRE DISTRICT
  - EXCLUSIVE SERVICE AREA UNASSIGNED
  - AQUARION WATER COMPANY
  - AVON WATER COMPANY
  - BETHEL WATER DEPARTMENT
  - BRISTOL WATER DEPARTMENT
  - CITY OF NORWALK FIRST TAXING DISTRICT
  - CONNECTICUT WATER COMPANY
  - DANBURY WATER DEPARTMENT
  - GROTON LONG POINT ASSOCIATION
  - GROTON UTILITIES
  - HAZARDVILLE WATER COMPANY
  - HERITAGE VILLAGE WATER COMPANY
  - JEWETT CITY WATER COMPANY
  - MANCHESTER WATER DEPARTMENT
  - MERIDEN WATER DIVISION
  - METROPOLITAN DISTRICT COMMISSION
  - MIDDLETOWN WATER DEPARTMENT
  - NEW BRITAIN WATER DEPARTMENT
  - NEW LONDON DEPARTMENT OF PUBLIC UTILITIES
  - NORWICH PUBLIC UTILITIES
  - PORTLAND WATER DEPARTMENT
  - SHARON WATER DEPARTMENT
  - SOUTH CENTRAL CONNECTICUT REGIONAL WATER AUTHORITY
  - SOUTH NORWALK ELECTRIC & WATER
  - SOUTHEASTERN CONNECTICUT WATER AUTHORITY
  - SOUTHTON WATER DEPARTMENT
  - SPRAGUE WATER & SEWER AUTHORITY
  - TORRINGTON WATER COMPANY
  - VALLEY WATER SYSTEMS, INC
  - WALLINGFORD WATER DIVISION
  - WATERBURY WATER DEPARTMENT
  - WATERTOWN WATER & SEWER
  - WINDHAM WATER WORKS
  - WINSTED WATER WORKS
  - WOLCOTT WATER DEPARTMENT



## 6. Consider and Approve Final Recommended ESA Document to Be Submitted to DPH

# Comments Addressed



- Updated ESA maps for existing service area updates and labels as requested
- Updated text corrections as requested
- Updated sections with “Preliminary” text to represent “Final Recommended” conditions
- Added Section 1.4 to discuss Public Comments, and Appendix D to present public comments
- Updated Table 2-3 and Section 2.2.2 with recent WUCC efforts in the ESA process
- Expanded Table 2-4 to include all ESA holders
- Added Statewide ESA Map as Appended Figure 2
- Updated ESA Maps from “Preliminary” to “Final Recommended”
- General document clarifications and updates

# Final Changes



- Mapping
  - ✓ Removed existing service areas from Ledyard Map to facilitate local Statement of Confirmation
- Report Narrative
  - ✓ MMI Formal Editorial Review
  - ✓ Added the Following Paragraph to Section 2.2.2:

As part of this process, all existing public water systems (except for state-owned public water systems) automatically received an ESA boundary coterminous with the parcel or parcels it served. This includes larger Community water systems as well as small Community public water systems that serve apartment buildings, boarding schools, condominium associations, elderly housing complexes, homeowners associations, mobile home parks, nursing homes, rehabilitation centers, religious retreat complexes, tribal nations, and satellite systems owned and operated by larger utilities. It also includes the parcels served by non-community water systems (NTNC and TNC systems), although due to data limitations such systems are delineated on the mapping by a point. ESA holders must be cognizant when conducting water system planning that the ESA boundaries associated with NTNC and TNC systems are not necessarily spatially correct.

# Statements of Confirmation Received



- ✓ All received
- Future ESA modifications will be addressed as addendums to the ESA Document

# ESA Document

- Any further/final comments?
- Discussion
- Motion to *“Approve the Final Recommended ESA Document, with amendments as presented today, for formal Submittal to DPH by June 17, 2017”*



## 7. Discuss Potential Upcoming ESA Modifications



# Section IV – Modification of ESAs



- Four Types of Modifications Identified
  - Type A – Modification Between Two ESA Holders
  - Type B – Modification Due to Creation of New Public Water System
  - Type C – Modification Due to Appeal
  - Type D – Modification Due to Other Reasons
- Discusses Information Required, Meetings, Opportunity to Comment, Appeals
- Type A – No vote, but requires comment period
- Type B – No vote, DPH informs of boundary update (WUCC may already be aware)
- Types C & D – Procedures Similar to those for Establishing ESA

## 8. Draft State Water Plan Overview

# Most Important Points (Draft)



1. Function of the Plan – Platform for decision making based on sound science, guiding principles, and clear roadmaps
2. Maintain Highest Quality Drinking Water – The Plan reaffirms the state’s dedication to use of Class A supply sources.
3. Balance – The Plan stresses the need for balance between instream and out-of-stream water needs.
4. Conservation – CT is lagging in its conservation effort; focus on increased awareness among users and outreach.
5. Maintain Scientific Data – The Plan advocates for collection, use, and centralization of available water-related data.

# Water Utility Themes (Draft)



- ✓ Continued Use of Class A Sources for Drinking Water
- ✓ Promotion of Class B Water for Non-Potable Uses
- ✓ Balance Ecological Need for Water
- ✓ Land Use Practices and Protection
- ✓ Water Conservation
- ✓ Regional Consideration of Water Supplies & Interconnections
- ✓ Identification of Funding Mechanisms
- ✓ Drought Planning
- ✓ Groundwater & Private Well Monitoring

# Pertinent Data/Analysis/Policies (Draft)



- ✓ Evaluation and Mapping of Basins for Water Availability
- ✓ Basin-Wide Storage Data
- ✓ Basin Water Summaries
- ✓ Climate Change
- ✓ Water Conservation Potential/Education & Outreach
- ✓ Removal of Unused/Obsolete Registered Water Diversions
- ✓ Implementation of Minimum Streamflow Regulations
- ✓ Consideration of water at a regional scale
- ✓ Coordination with the WUCCs
- ✓ Support for Protection of Class I and II Lands

# Possible Legislation (Draft)



- ✓ Revoking Unused Diversion Registrations
- ✓ Water Conservation Laws or Incentives in Concert with Ongoing Utility Initiatives
- ✓ Private Well Testing Program
- ✓ Statutory Authority for the Water Planning Council

# Top 10 Policy Recommendations (Draft)



1. Water management should follow scientific examples
2. As possible, remove obsolete water registrations
3. Encourage innovation in agricultural water practices
4. Water data (or access to it) should be centralized in a single database and/or portal to other sources
5. Consider Class B water for individual non-potable uses if environmentally prudent and cost-effective, using guidelines to be developed by the WPC for review of Class B water for non-potable uses using the Triple Bottom Line philosophy (environmental, social, and economic metrics)
6. Develop an education and outreach strategy focusing on water conservation topics

# Top 10 Policy Recommendations (Cont.)



7. The WPC should provide ongoing review of other Connecticut state plans in order to identify and address inconsistencies.
8. Encourage regional water solutions where they are practical and beneficial
9. Reaffirm support for the protection of Class I and II land contributing to water supply. Expand protections to other watershed lands and land that feeds aquifers used for public water supply or by private wells
10. Create a data-based water education program aimed at the general public and municipal officials



## 9. Integrated Report Topics

# Topic Schedule



WSA	Stat.	Reg.	Task	Jun	Jul	Aug	Sep	Oct	Nov	Dec`
			State Water Plan summary							
			Request and receive data from utilities							
✓			Maintenance and replacement of existing supply sources / asset management (aging infrastructure)							
✓		✓	Financial Considerations / declining revenue vs. increasing costs							
✓	✓		Coordination of planning (between systems, with towns, across ESA boundaries)							
✓		✓	Source Water Protection							
	✓	✓	Joint Use, Management, or Ownership of Facilities, Shared Resources							
✓			Lack of fire protection							
✓	✓		Water Conservation / Drought Planning / High volume users / Increasing peaking ratios							
✓	✓	✓	Satellite Management / Small System challenges and viability							
		✓	Minimum Design Standards							
✓	✓	✓	Future Sources / Raw Well Water Quality / Acquisition of land for new stratified drift wells							
✓	✓	✓	Future Interconnections and Impact (including WQ) / disjointed service areas / integration							
✓			Impacts of Climate Change							
✓			Impacts of Existing and Future Regulations							
	✓	✓	Potential Impacts on Other Use of Water Resources, including WQ, Flood Management, Recreation, Hydropower, and Aquatic Habitat Issues							
		✓	Regional Population and Service Ratio, Consumption by Demand Category, Safe Yield (Impacts of Streamflow Regulations), Excess Water							
	✓	✓	Compatibility with local, regional, and state plans							
✓			Other issues							

# CWSP Schedule



Action	Timeline
• Issue draft Preliminary CWSP*	By December 2017
• Discuss draft Preliminary CWSP	January 2018 meeting
• Issue final draft Preliminary CWSP	January 31, 2018
• Approve Preliminary CWSP for Public Comment	February 2018 meeting
• Min. 30-Day Public Comment period	February to March 2018
• Final prioritization of recommendations, discuss public comments to date	March 2018 meeting
• Issue draft Final CWSP	March 31, 2018
• Review public comments • Review draft Final CWSP	April 2018 meeting
• Issue final draft Final CWSP for review	April 30, 2018
• Approve Final CWSP for Submission to DPH	May 2018 meeting

\*CWSP = *Integrated Report and Executive Summary*

# CWSP Planning Periods



Planning Period	Year
5-Year	2023
20-Year	2030
50-Year	2060

# Integrated Report Approach



- ***Overview of Data, Mapping, and Information Needs***
  - ✓ List provided in overview
  - ✓ Data to be provided as soon as available by all ESA holders but in any case prior to scheduled topic
  
- ***Integrated Report Modules***
  - ✓ Topic
  - ✓ Genesis/Background
  - ✓ Stated Goal
  - ✓ Discussion Prompts
  
- ***Process***
  - ✓ All members will be asked to contribute to the discussion
  - ✓ ESA holders will be asked to also provide written responses to discussion prompts
  - ✓ Interim report sections will be developed and shared with members

# Module #1



## *Maintenance and Replacement of Existing Supply Sources/Asset Management*

What is Asset Management?

According to EPA, asset management is maintaining a desired level of service for what you want your assets to provide at the lowest life cycle cost. Lowest life cycle cost refers to the best appropriate cost for rehabilitating, repairing, or replacing an asset. Water systems need asset management to:

- ✓ Address aging water infrastructure assets before they fail
- ✓ Keep assets productive, and not allow them to become disruptive liabilities
- ✓ Treat all decisions as investment decisions to maximize limited financial resources
- ✓ Make costs transparent to support financial decisions

# Module #1



## *Maintenance and Replacement of Existing Supply Sources/Asset Management*

Some important questions to ask:

1. What is the current state of my system's assets?
2. What is my required "sustainable" level of service?
3. Which assets are critical to sustained performance?
4. What are my life-cycle costs?
5. What is my best long-term financing strategy?

*EPA has many modules and guides, particularly for small systems*

# Module #1



## *Maintenance and Replacement of Existing Supply Sources/Asset Management*

1. Does your system specifically budget for maintenance and replacement of sources and/or assets or are these maintained and/or replaced as the situation requires?
2. Do you have a formal asset management plan for your system?
3. What are the most critical elements of your system relative to maintenance and replacement?



# Module #1



## ***Maintenance and Replacement of Existing Supply Sources/Asset Management***

4. If your system relies on groundwater wells, have you had to develop or relocate them since bringing on line? If yes, after approximately how many years of operation was maintenance/replacement needed?
5. Generally speaking, how does your system fund maintenance and capital improvements?
  - *We would appreciate an emailed response to these questions by the July 12<sup>th</sup> meeting*
  - *Please start thinking about questions for Module #2 & 3!*

# Module #1



## *Maintenance and Replacement of Existing Supply Sources/Asset Management*

### Some Resources:

1. DPH Circular Letter #2015-09; Inspection of Hydropneumatic Storage Tanks and Asset Management Plans; DPH; July 7, 2015
2. Reference Guide for Asset Management Tools; EPA; May 2014
3. Distribution Systems: A best Practices Guide; EPA; September 2006
4. Taking Stock of Your Water System: A simple Asset Inventory for Very Small Drinking Water Systems; EPA; October 2004

## 10. Other Business

# Potential July 12<sup>th</sup> Meeting Agenda



1. Welcome & Roll Call
2. Approval of June Meeting Minutes
3. Formal Correspondence
4. Public Comment Period
5. ESA Modifications Discussion/Update
6. Integrated Report Topics (Financial Considerations, Coordination of Planning)
7. Other Business