Monthly Meeting #13

Coordinated Water System Plan

Central Region

MDC Training Center; 125 Maxim Road; Hartford, Connecticut | June 14, 2017

Agenda

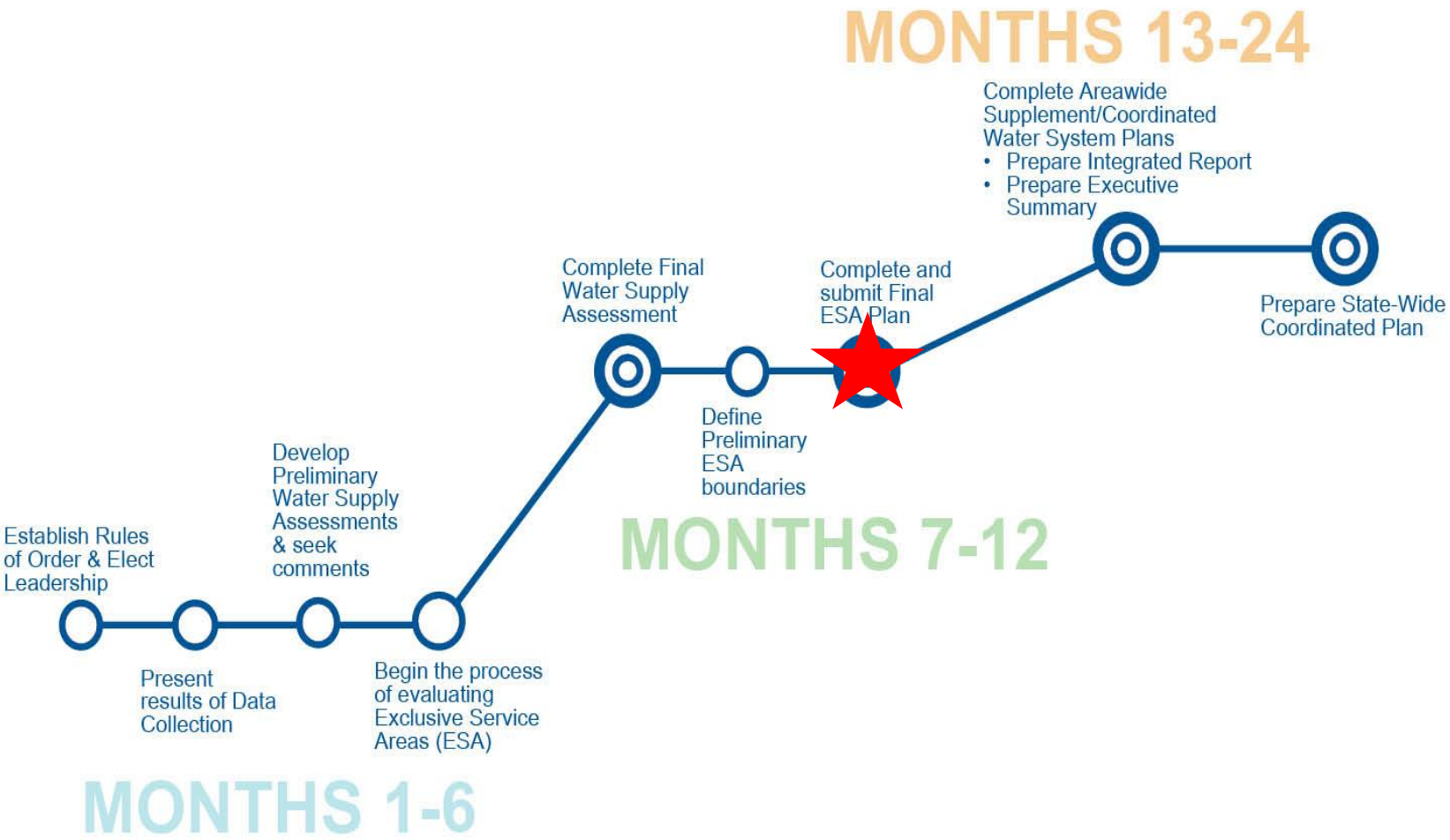
1. Welcome & Roll Call (5 minutes)
2. Review and Approval of May Meeting Minutes (5 minutes)
3. Review Formal Correspondence (5 minutes)
4. Final Review and Approval of ESA Report (20 minutes)
5. State Water Plan Overview and Discussion (15 minutes)
6. Integrated Report Topics (30 minutes)
7. Public Comment (10 minutes)
8. Other Business (5 minutes)

1. Welcome and Roll Call

Taking Stock

- ***What Have We Accomplished?***
  - ✓ A final draft Final ESA Document was released
  - ✓ Some of the Statements of Confirmation have been received
- ***What Are We Doing Today?***
  - ✓ Approving the ESA report for formal submission
  - ✓ Taking a look at the State Water Plan (formal presentation by the Water Planning Council to follow in July)
  - ✓ Introduce Integrated Report approach and data needs
  - ✓ Discussing Asset Management, Source of Supply Maintenance, and Replacement
- ***What's Next?***
  - ✓ Submit Final ESA document
  - ✓ Collect Remaining Statements of Confirmation
  - ✓ Continue work on the Integrated Report

WUCC Time Frame



2. Review & Approval of Meeting Minutes

3. Review of Formal Correspondence

Formal Correspondence

Date	From	To	Main Topic(s)
5/18/2017	WUCC Co-Chair	Central Region ESA Holders	Statements of Confirmation
5/18/2017	Central WUCC (via DPH)	Central WUCC members	Link to Final Draft ESA Document for review

4. Final Review and Approval of ESA Report

Statements of Confirmation Received

- ✓ Aquarion Water Company
- ✓ Avon Water Company
- ✓ Berlin Water
- ✓ Connecticut Water Company
- ✓ Cromwell Fire District
- ✓ Hazardville Water Company
- ✓ Metropolitan District Commission
- ✓ Middletown Water Department
- ✓ South Central CT Regional Water Authority
- ✓ Southington Water Department
- ✓ Tolland Water
- ✓ Town of Bolton
- ✓ Town of Coventry
- ✓ Town of Durham
- ✓ Town of East Hampton
- ✓ Town of Marlborough
- ✓ Wallingford Water
- ✓ Windham Water Works

Missing Statements of Confirmation

- ✓ Kensington Fire District
- ✓ Manchester Water Department
- ✓ Meriden Water Department
- ✓ New Britain Water Department
- ✓ Portland Water Department
- ✓ Town of East Haddam
- ✓ Town of Lyme
- ✓ Town of Middlefield
- ✓ Valley Water Systems
- ✓ Worthington Fire District

Final Changes

- Mapping
  - ✓ Minor adjustments to ESA boundaries to reflect existing water service boundaries.
- Report Narrative
  - ✓ Conducted MMI formal editorial review
  - ✓ Added the following Paragraph:

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.

5. 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
- ✓ Regionalization 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
- ✓ Regionalization of Water
- ✓ Support for Protection of Class I and II Lands

Possible Legislation (Draft)

- ✓ Remove Obsolete Diversion Registrations with no Plans for Future Use
- ✓ 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

6. 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 you 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

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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

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Module #1

Maintenance and Replacement of Existing Supply Sources/Asset Management

Discussion Prompts:

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

Discussion Prompts (cont.):

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?

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

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7. Public Comment

8. Other Business

Adjourn