



Monthly Meeting #18

Coordinated Water System Plan Central Region

MDC Training Center; 125 Maxim Road, Hartford, Connecticut | November 15, 2017

Agenda

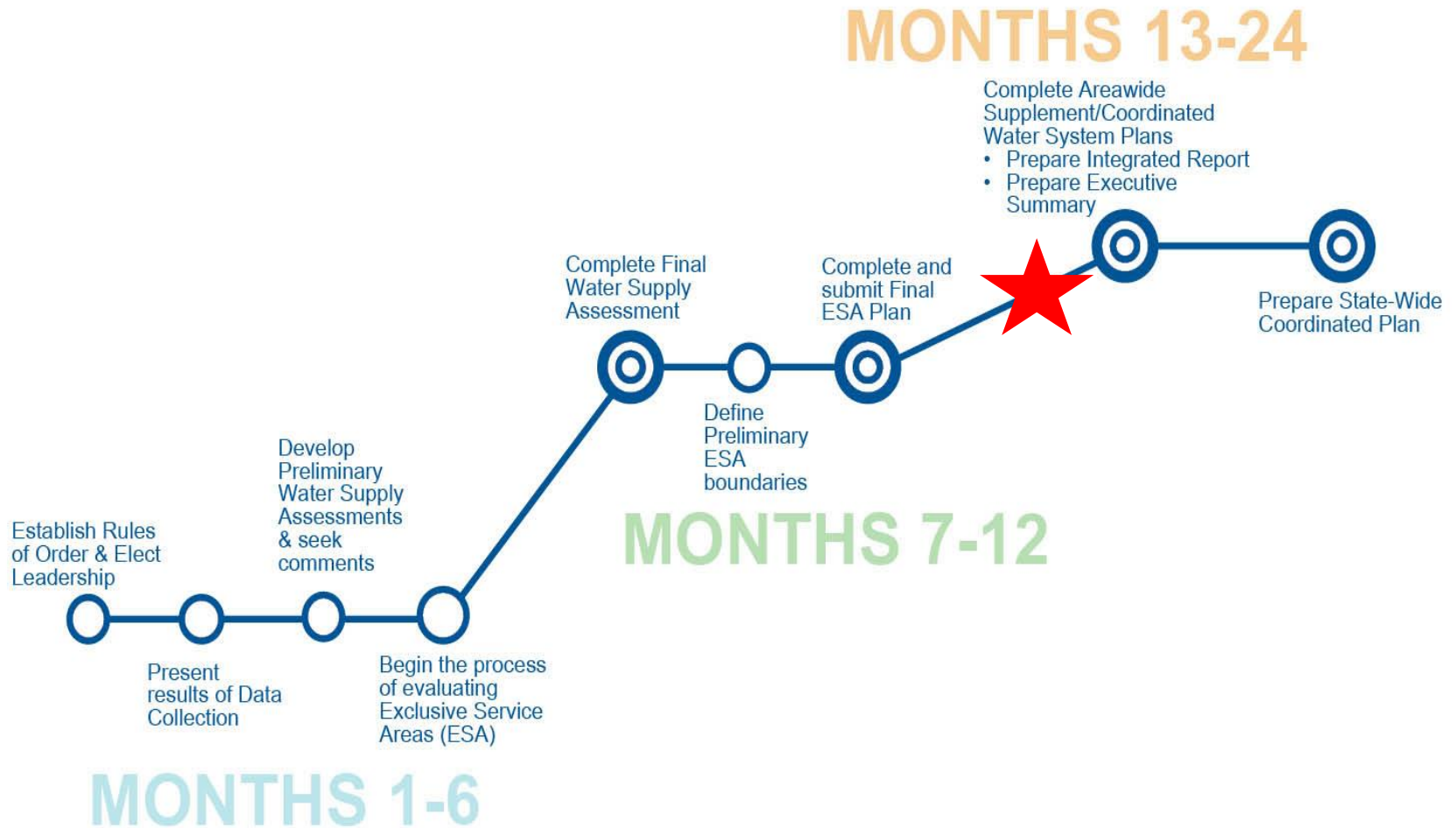


1. Welcome & Roll Call (5 minutes)
2. Approval of October Meeting Minutes (5 minutes)
3. Review of Formal Correspondence (5 minutes)
4. Integrated Report Module #14 –Potential Impacts on Water Resources (20 minutes)
5. Integrated Report Module #15 – Regional Projected Service Population, Consumption, Safe Yield, and Excess Water (20 minutes)
6. Integrated Report Module #16 –Compatibility with Local, Regional, and State Plans (20 minutes)
7. Recap and Review of Previous Integrated Report Modules (15 minutes)
8. Next Steps and Revised Timeline (15 minutes)
9. Public Comment (10 minutes)
10. Other Business (5 minutes)

1. Welcome and Roll Call

- ***What Have We Accomplished?***
 - ✓ Discussed Integrated Report Modules #1 through #13
- ***What Are We Doing Today?***
 - ✓ Discussion of Integrated Report Modules #14 through #16
- ***What's Next?***
 - ✓ Review Draft Integrated Report

WUCC Time Frame



2. Approval of Meeting Minutes

3. Formal Correspondence

Formal Correspondence



| Date | From | To | Main Topic(s) |
|----------|--------|------------------------------------|--------------------|
| 10/19/17 | CT DPH | Bolton Cosmetic & Family Dentistry | Phase I-A Approval |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

4. Integrated Report Module #14

Module #14 – Potential Impacts



- Water Quality: Sewage treatment, impaired waters, etc.
- Flood Management: Dams, protection of infrastructure
- Recreation: Boating, fishing, wading, and passive uses
- Hydropower: Flow and head needed
- Aquatic Habitat: Stress on organisms such as fish and macroinvertebrates
- This is a planning-level analyses to help determine prioritization of actions
- Site-specific analyses not appropriate for regional scale planning

CWSP regulations require “consideration of the potential impacts of the plan on other uses of water resources, including water quality, flood management, recreation, hydropower, and aquatic habitat issues”
RCSA 25-33h-1(d)(C)(ix)

Module #14 – Water Quality

- PWS withdrawals could impede waste assimilation capacities
- Project-specific effects to be evaluated when water supply project proposed:
 - Type of PWS withdrawal (surface vs. ground)
 - Wasteload assimilation capacity remaining
 - Cumulative effects with other non-sewage discharges (e.g. cooling water)
 - Benefit of providing clean water to users in areas of poor groundwater quality

Module #14 – Flood Management

- New surface water impoundments not currently proposed
- Any dam modifications should consider recently calculated rainfall extremes / hydrology and potential downstream impacts, as well as the recent modifications to the Dam Safety Regulations
- Larger concern for flood management relates to infrastructure which may be in areas of flood risk



Photo courtesy of CT Post

Module #14 – Flood Management

- Local permits require demonstration of compliance with flood standards
 - Need to ensure that a project does not impact flood storage, flood conveyance, etc.
 - New wells located along rivers must be elevated above the 0.2% flood water surface elevation (500-year) and compensatory mitigation in the floodplain may be needed

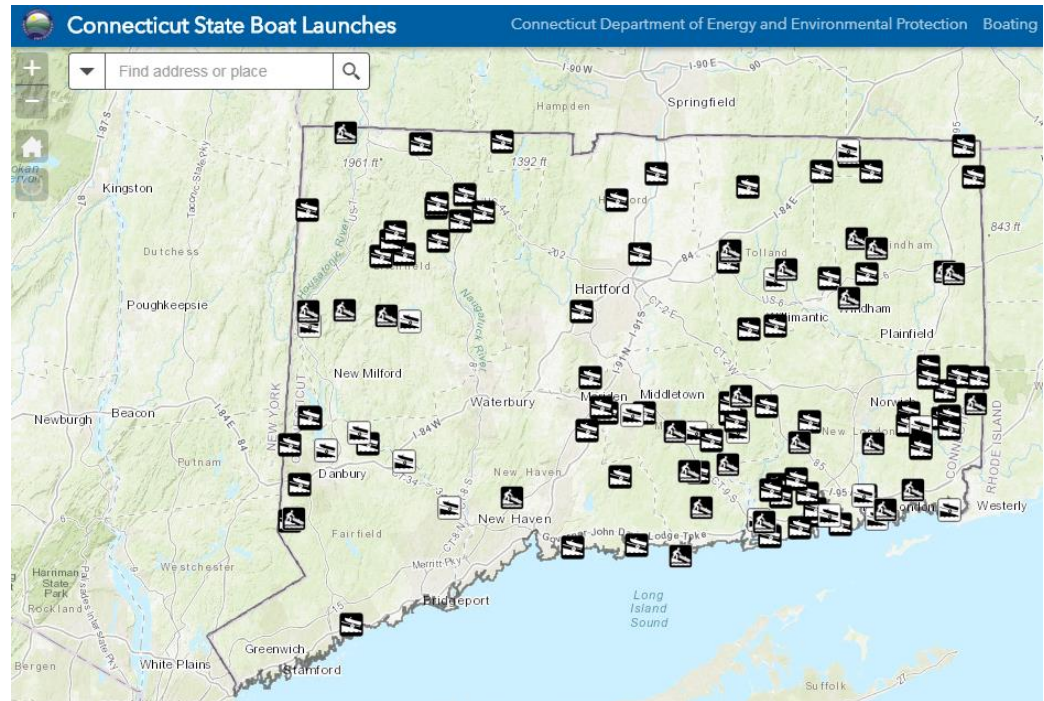
- Specific impacts must be evaluated during diversion permit, flood management cert.



Photo of John Read Middle School Well by MMI

Module #14 – Recreation

- Boat launches and state parks are widespread
- Most small streams do not support boating; many rivers do for at least part of the year
- Small streams may support fishing, wading, etc.
- PWS withdrawals may result in lower stream stages and discharges, shortening period of available use
- Impacts to recreation must be evaluated as part of diversion permit process



Module #14 – Hydropower

- There are no hydropower dams in the Central Region.
- PWS withdrawals are rarely large enough to impact hydropower
- However, PWS withdrawals and non-potable withdrawals are often needed for other types of power generation



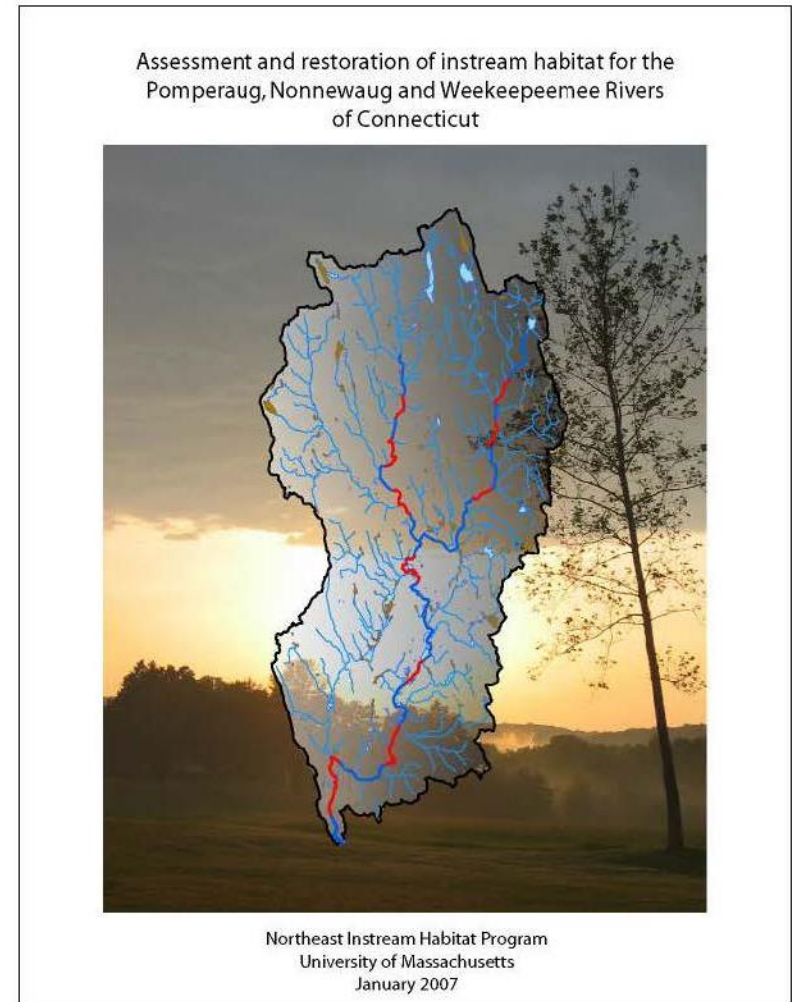
Photo courtesy Candlewood Lake Association



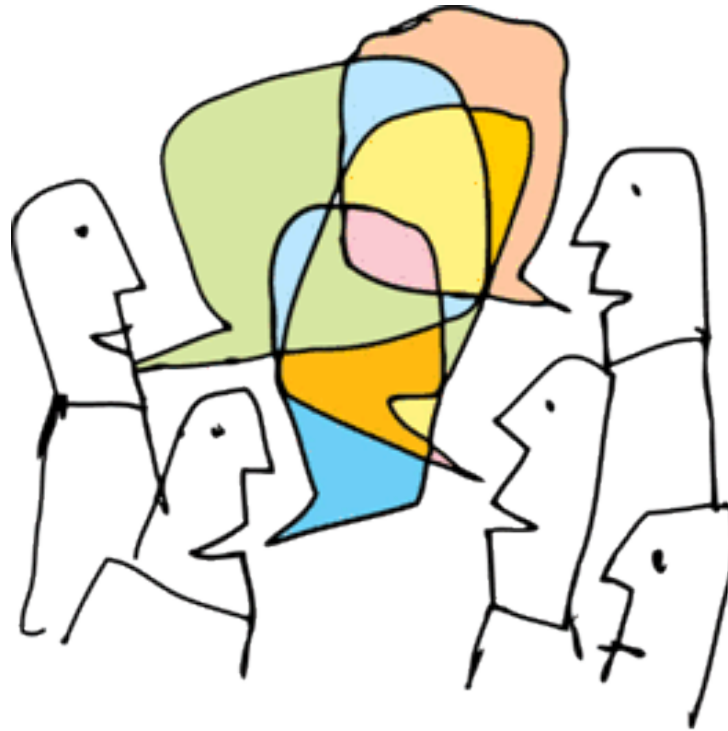
Photo of Collector Well by MMI

Module #14 – Aquatic Habitat

- Portions of some river and streams may be classified in the Impaired Waters List as not supporting for Aquatic Habitat
- Few Instream Flow Studies have been performed. Where conducted, the impacts of withdrawals on fish habitat can determine how much more water can be used, if any
- Impacts to aquatic habitat must be evaluated during diversion permit process



Module #14 Discussion



5. Integrated Report Module #15

Module #15 – Regional Demands



New CT State Data Center Population Projections

Consider the following quotes from the center:

- ✓ “Windham, East Windsor, Avon, Oxford, Ellington, Sterling, Norwich, West Haven, Rocky Hill, and Manchester are expected to experience the largest percentage of increase in overall population projected from 2015 to 2040.”
- ✓ “The towns of Sherman, New Fairfield, Bridgewater, Sharon, Monroe, Cornwall, Salisbury, Old Saybrook, Washington, and Weston are projected to experience the largest percentage of decline in the overall population from 2015 to 2040.”

Module #15 – Regional Demands



New CT State Data Center Population Projections

- Overall, the Central Region is projected to decrease in population by approximately 70,000 people through 2040, with the most notable decreases in Milford, Branford, Enfield, and Clinton.
- The Central Region towns with largest projected growth are New Haven, Middletown, Hamden, West Hartford, New Britain, East Hartford, Avon, and Rocky Hill.
 - ✓ What does this mean for the rural towns' PWS needs?
 - ✓ What does this mean for the urban towns' PWS needs?
 - ✓ Is there already PWS where it may be needed most?
 - ✓ If a town will declining population needs PWS, how should it be developed?

Module #15 Discussion



6. Integrated Report Module #16

Module #16 – Compatibility with Plans



- The Water Supply Assessment (WSA) reviewed local Plans of Conservation and Development in great detail
- Municipal officials were surveyed regarding water supply needs as part of WSA
- Regional Plans include:
 - ✓ Capital Region Plan of Conservation and Development (2014 – 2024)
 - ✓ South Central Region Plan of Conservation and Development (July 2009)
 - ✓ Lower CT River Valley Regional Plan of Conservation and Development (underway)

***CWSP regulations require “discussion of the relationship and compatibility of the CWSP with proposed or adopted land use plans and growth policies, as reflected in local, regional, and state plans”
RCSA 25-33h-1(d)(C)(ii)***

Module #16 – Compatibility with Plans



- Conservation & Development Policies: The Plan for Connecticut (2013-2018) – Consistent with 5 of 6 GMPs
 - GMP #1: Redevelop and Revitalize Regional Centers and Areas with Existing or Currently Planned Physical Infrastructure
 - GMP #2: Expand Housing Opportunities and Design Choices to Accommodate a Variety of Household Types and Needs
 - GMP #4: Conserve and Restore the Natural Environment, Cultural and Historic Resources, and Traditional Rural Lands
 - GMP #5: Protect and Ensure the Integrity of Environmental Assets Critical to Public health and Safety
 - GMP #6: Promote Integrated Planning across all Levels of Government to Address Issues on a Statewide, Regional, and Local Basis

Module #16 Discussion



7. Recap and Review of Previous IR Modules

8. Next Steps and Revised Timeline

CWSP Schedule



| Action | Timeline |
|--|------------------------|
| • Issue draft Preliminary CWSP | By January 1, 2018 |
| • 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 | 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 |

9. Public Comment

10. Other Business