

# Water Utility Coordinating Committees

# <u>CRCOG – Regional Planning</u> <u>Commission Meeting</u>

Lori J. Mathieu, Section Chief Eric McPhee, Supervising Environmental Analyst

**DPH Drinking Water Section** 

September 15, 2016



## Requested Topics

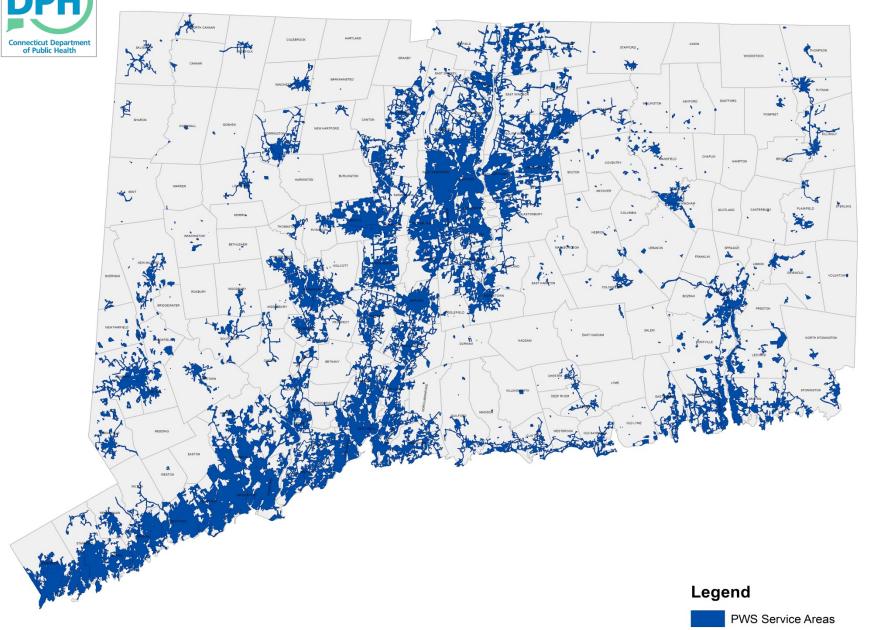
- Responsibilities of DPH Drinking Water Section
- The importance of abundant, safe and pure water supply
- The Coordinated Water System Plan—what it is, and why does it exist?
- The three WUCC regions—what are they? Note that the Central Corridor is working off a past plan.
- Why are WUCCs important
- What is the timeline for completing this work
- Purpose of State Water Plan, which is being developed at the same time, and how do these two plans relate
- How towns can follow planning process and stay involved

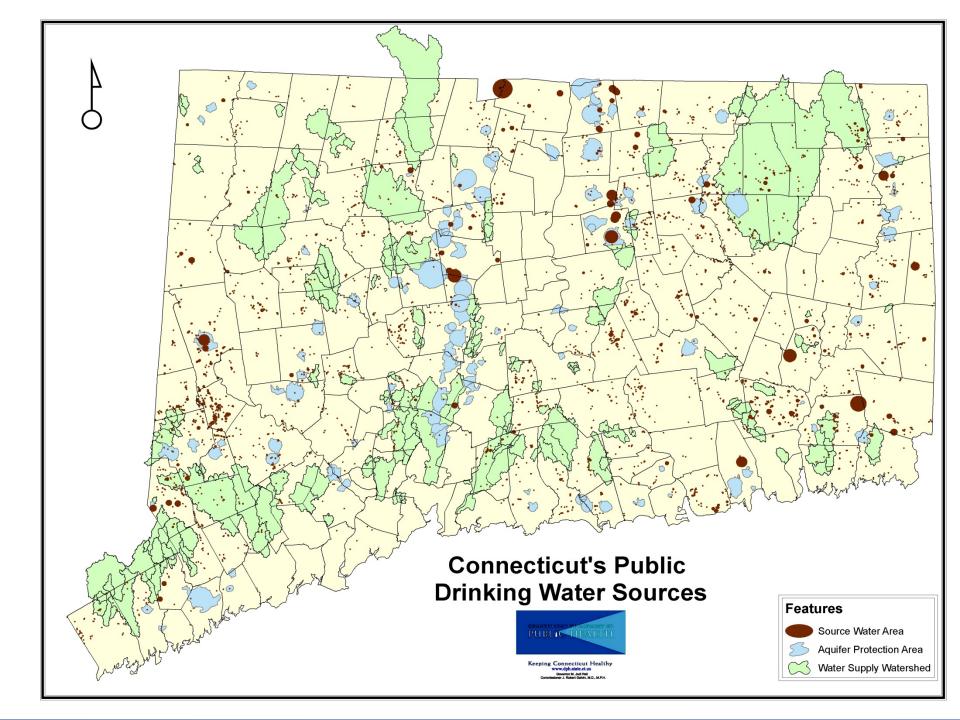


# CT DPH Drinking Water Section Responsibilities

- Regulate 2,550 Public Water Systems
- 2.8 million CT Residents Served 3.5 million Total Population
- 550 Community Systems
- 2,000 Non-Community Systems
- 150 Reservoir Systems, over 4,000 Groundwater Sources

#### Public Water Supply Service Area







## **CT DPH Drinking Water Section**

- Primacy of Safe Drinking Water Act EPA
  - system engineering reviews
  - treatment/source review & approval
  - Drinking Water State Revolving Loan Fund
  - drinking water quality oversight of monitoring and reporting
  - ground water rule
  - revised total coliform rule
- State Statutory Oversight
  - purity and adequacy of public drinking water
  - water company land regulation
  - recreation permitting, sale of excess water, certified operators, enforcement
  - water supply planning and regional planning (WUCC)



## Responsibilities – 39 Staff

- Administer Drinking Water Protection Laws
- SDWA, Primacy Since 1976
- Water Quantity Oversight Margin of Safety
- Water Quality Review, over 500,000 Samples per Year
- Review and Approve all Significant Improvements to Public Water Systems
- Review and Approve New Treatment Plants and Systems
- Conduct Sanitary Engineering Surveys, Every 3 or 5 Years
- Review and Approve Water Supply Plans and Regional Plans
- Responsive to all Hazards, Emergency Preparedness
- Review of Sale/Use of 100,000 Acres of Water Company Land



## **DWS** Responsibilities

- Drinking Water State Revolving Loan Fund \$150 million
   Since 1999, with Another \$200 million Moving Forward,
   Infrastructure Projects, Repair, Replace Upgrade, Extend to Pollution
- Proactively Protect Public Drinking Water Sources
- Proactive Enforcement of Violations, Follow-up with System Owner, Issue NOVs and Orders to Assure System Compliance
- System Takeover if Failure, System Review, Violations, etc.
- Tracking of SDWA Compliance and Reporting to EPA
- Sources of Bottled Water in CT and Bulk Water Hauling
- 24/7 Coverage and Response Concerning Public Water System Emergencies
- Track and Report Program Measures
- Administer EPA Grants Since 1980s
- Assure Compliance for all 2500 Public Water Systems



# Why are there Water Utility Coordinating Committees?

Sec. 25-33c. Legislative finding. The General Assembly finds that an adequate supply of potable water for domestic, commercial and industrial use is vital to the health and well-being of the people of the state. Readily available water for use in public water systems is limited and should be developed with a minimum of loss and waste. In order to maximize efficient and effective development of the state's public water supply systems and to promote public health, safety and welfare, the Department of Public Health shall administer a procedure to coordinate the planning of public water supply systems.



#### Members

 A water utility coordinating committee shall consist of one representative from each public water system with a source of water supply or a service area within the public water supply management area and one representative from each regional council of governments within such area, elected by majority vote of the chief elected officials of the municipalities that are members of such regional council of governments.



# 25-33g(a)

Assessment of water supply conditions and problems. Exclusive service area boundaries. (a) Each water utility coordinating committee, in consultation with the Commissioners of Public Health and Energy and Environmental Protection, the Secretary of the Office of Policy and Management and the Public Utilities Regulatory Authority, shall develop a preliminary assessment of water supply conditions and problems within the public water supply management area. The committee shall solicit comments on the preliminary assessment from municipalities, regional councils of governments, state agencies and other interested parties and respond to any comment received. The committee shall thereafter prepare a final assessment.



# 25-33g(b)

(b) The committee shall establish preliminary exclusive service area boundaries, based on the final assessment, for each public water system within the management area, and may change such boundaries. In establishing exclusive service area boundaries the committee shall solicit comments on such boundaries from municipalities, regional councils of governments, the Commissioners of Energy and Environmental Protection and Public Health, the Public Utilities Regulatory Authority, the Secretary of the Office of Policy and Management and other interested persons within the management area and respond to any comment received. If there is no agreement by the committee on such boundaries, or on a change to such boundaries, the committee shall consult with the Public Utilities Regulatory Authority.



### 25-33h(a)

• Sec. 25-33h. Coordinated water system plan. Regulations. (a) Each water utility coordinating committee shall prepare a coordinated water system plan in the public water supply management area. Such plan shall be submitted to the Commissioner of Public Health for his approval not more than two years after the first meeting of the committee.



### 25-33h(a)

The plan shall promote cooperation among public water systems and include, but not be limited to, provisions for (1) integration of public water systems, consistent with the protection and enhancement of public health and wellbeing; (2) integration of water company plans; (3) exclusive service areas; (4) joint management or ownership of services; (5) satellite management services; (6) interconnections between public water systems; (7) integration of land use and water system plans; (8) minimum design standards; (9) water conservation; (10) the impact on other uses of water resources including water quality, flood management, recreation and aquatic habitat issues; and (11) acquisition of land surrounding wells proposed to be located in stratified drifts.



## 25-33h(b)

(b) The plan shall be adopted in accordance with the provisions of this section. The committee shall prepare a draft of the plan and solicit comments thereon from the Commissioners of Public Health and Energy and Environmental Protection, the Public Utilities Regulatory Authority, the Secretary of the Office of Policy and Management and any municipality, regional council of governments or other interested party within the management area. The municipalities and regional councils of governments shall comment on, but shall not be limited to commenting on, the consistency of the plan with local and regional land use plans and policies.



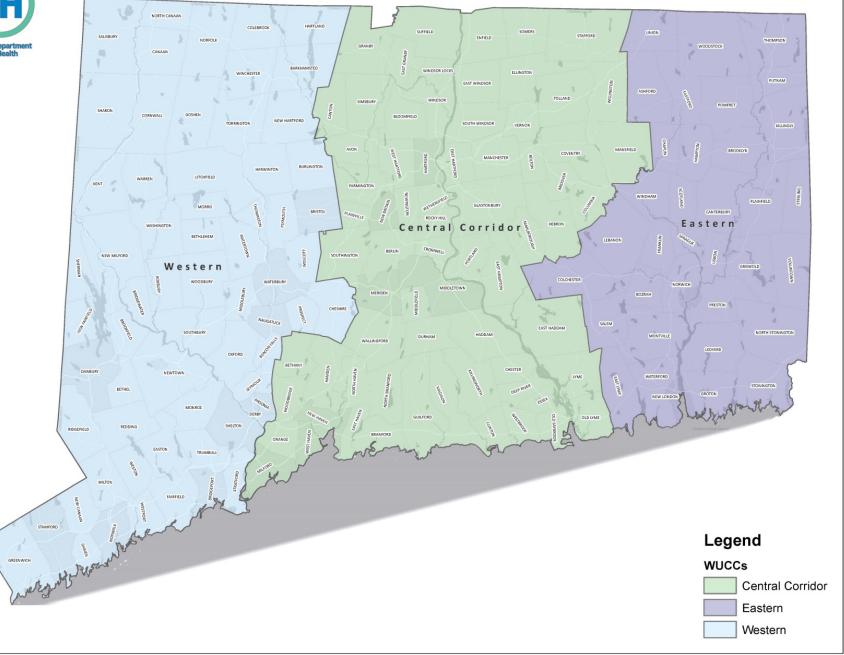
# Central Corridor WUCC COG members/attendees

- Carl Amento-South Central Regional Council of Governments
- Rebecca Andreucci-South Central Regional Council of Governments
- Mary Ellen Kowalewski Capitol Region Council of Governments
- Lynn Pike DiSanto Capitol Region Council of Governments
- Sam Gold Lower Connecticut River Valley Council of Governments

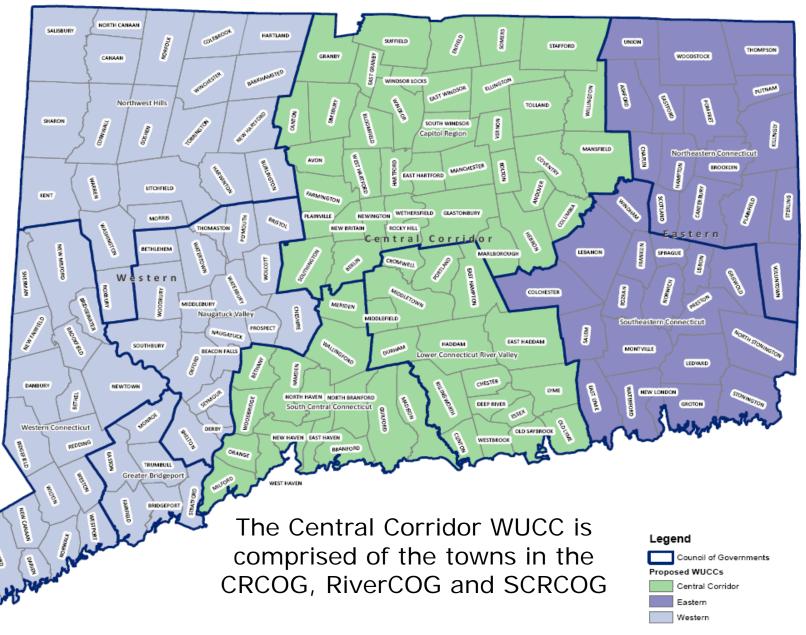
# DPH Connecticut Department of Bublic Health

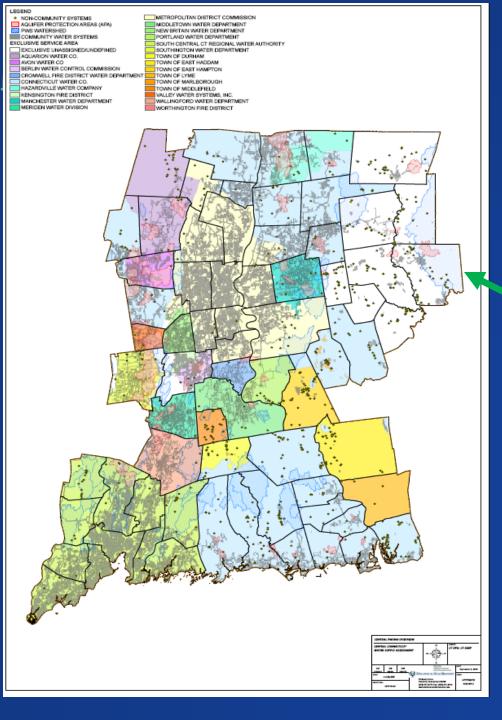
#### WUCC Boundaries











# **Exclusive Service Areas**



### **WUCC TIMELINE**





# Future Actions Months 6-24

- Complete Final Water Supply Assessments
- Define Preliminary ESA Boundaries
- Complete and Submit Final ESA Plan
- Prepare Integrated Report
- Prepare Executive Summary
- Complete Areawide Supplement/Coordinated Water System Plans
- Prepare State-Wide Coordinated Plan

# Coordinated Water System Plan Part I: Preliminary Water Supply Assessment

Central Connecticut Public Water Supply Management Area September 1, 2016



Prepared for:

CONNECTICUT DEPARTMENT OF PUBLIC HEALTH
410 Capitol Avenue
MS #51WAT, P.O. Box 340308
Hartford, CT 06134-0308
(860) 509-7333
http://www.ct.gov/dph



And the:
CENTRAL REGION WATER UTILITY
COORDINATING COMMITTEE
c/o the Elected Recording Secretary
281 Hazard Avenue, Enfield, CT 06082
http://www.ct.gov/dph/cwp/view.asp?a=3139
&q=576506

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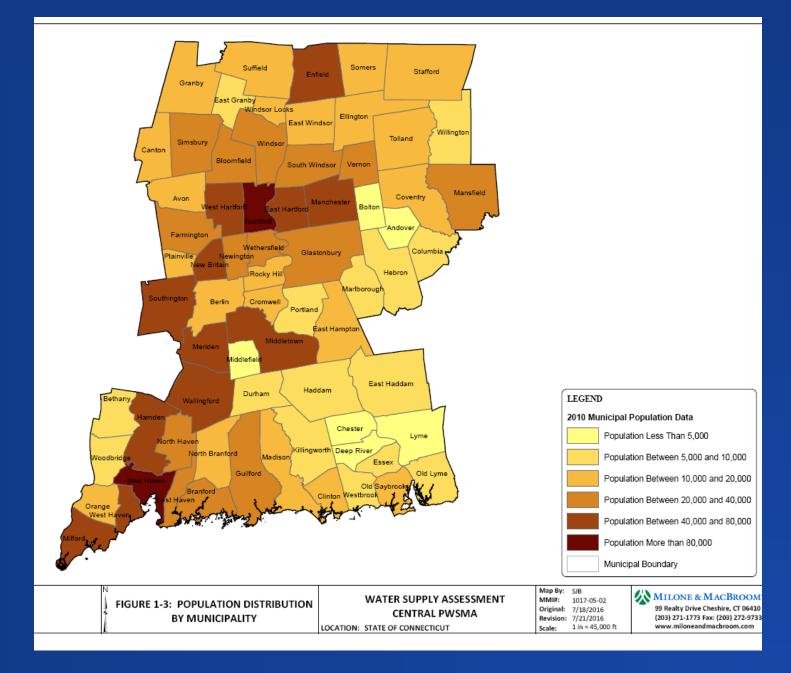
MMI #1017-05



# Preliminary Assessment

- Provided to members, including COGs, on 9/9
- Review







#### 2.2 Assessment of Water Quality

DPH files and databases of recent water quality enforcement actions in the region have been compiled and evaluated. These are summarized in Table 2-2 for Community systems from recent Annual Compliance Reports published by DPH. Note that MCL refers to Maximum Contaminant Level.

TABLE 2-2 Summary of Recent Water Quality Violations for Community Systems (2014-2015)

Public Water System	Primary Location Served	MCL Violations	Monitoring Violations	Reporting Violations	Comment
31 Grist Mill Rd	East Haddam	2	0	0	Total Coliform
890 Boston Turnpike	Bolton	1	216	3	SOCs, VOCs, Physical Parameters, Lead and Copper, Radionuclides, Total Coliform, pH
Abby Water, LLC	Hebron	0	0	1	
Apple Valley Village	Southington	0	0	1	
Baxter Farms Community Water Association	Tolland	1	0	0	90 <sup>th</sup> Percentile Lead
Berlin Water Control Commission	Berlin	0	7	0	Physical Parameters, pH, Chlorine, Total Coliform
Bethany Mobile Home Park	Bethany	0	7	0	Chlorine, pH
Boxwood Condominium Association	Old Lyme	0	1	0	рН
Carriage House Apartments	Mansfield	1	5	3	Total Coliform (MCL), Physical Parameters, pH
Chatham Apartments	East Hampton	2	2	2	Nitrite, Nitrate, Total Coliform
Club House Apartments	Mansfield	0	1	0	pH
Cobalt Lodge Healthcare	East	_	_	_	Physical Parameters, Total



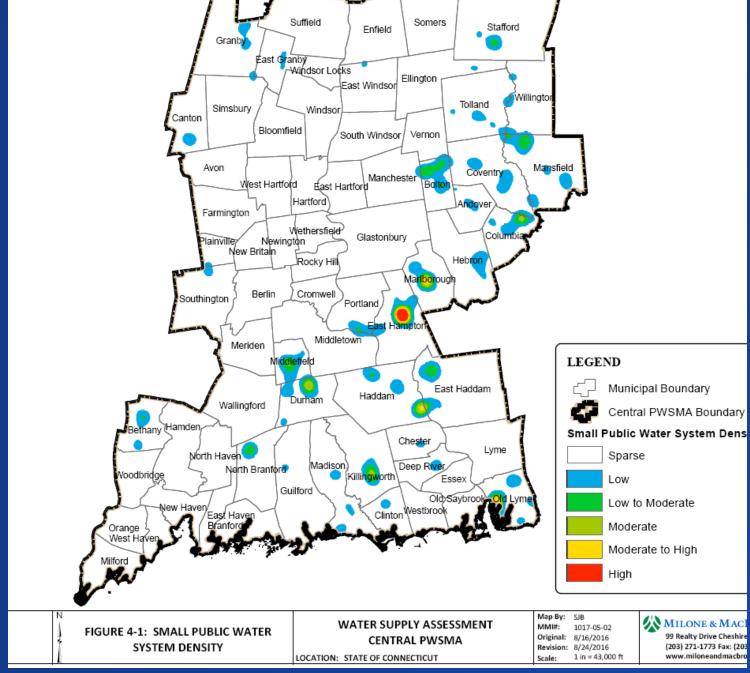
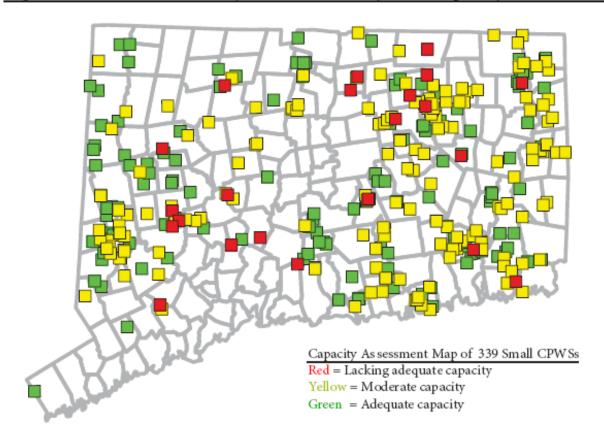




Figure 1: Small Community Public Water System Capacity Assessment Map





### **Assessment**

Action	Timeline		
Incorporate edits/comments from WUCC members	August 17-31, 2016		
Provide Draft Preliminary WSA to DPH, DEEP, OPM, and PURA for consultation per CGS 25-33g(a)	August 18, 2016		
Final Draft Preliminary WSA to WUCC Members	September 6, 2016		
Preliminary WSA Adoption	September 21, 2016 Meeting		
30-Day Public Comment Period on Preliminary WSA	September 23, 2016 to October 24, 2016		
WUCC Review & Action on Public Comment / Additional Member Comments – SPECIAL MEETING DATE	October 25, 2016 Meeting		
Initial Draft Final WSA to WUCC Members	November 1, 2016		
WUCC Review & Action on Public Comments / Additional Member Comments	November 16, 2016 Meeting		
Final Draft of Final WSA to WUCC Members	December 1, 2016		
Adoption of Final WSA – SPECIAL MEETING DATE	December 12, 2016 Meeting		
Submission of Final WSA to DPH	December 15, 2016		



#### **State Water Plan**

#### GOV. MALLOY APPLAUDS HOUSE APPROVAL OF WATER PLANNING LEGISLATION

(HARTFORD, CT) - Governor Dannel P. Malloy applauded the Connecticut House of Representatives for approving legislation today that commits the state to creating a state water plan that will plan effectively for future demand and maintain water as an asset.

"Creating path towards a strategic water plan makes good economic sense to ensure adequate and safe public water for our citizens," Governor Malloy said. "As responsible leaders, we must be smart stewards and plan ahead to preserve water for future generations while we have the luxury of its abundance. By taking on the task of developing a statewide strategic water plan now, we can reduce climate change uncertainty, plan effectively for future demand and maintain water as an asset. If we want sustainable development, than we must make sure it is in harmony with the available water resources."

Calling water "Connecticut's greatest natural resource," Gov. Dannel P. Malloy told a group of state water experts Monday at a conference organized by UConn that the time has come for the state to develop and implement a strategic water plan.



### **PUBLIC ACT 14-163**

Sec. 22a-352. (Formerly Sec. 25-5b). State water plan. Requirements. Submission to General Assembly. Public review. Approval. Annual report. (a) Not later than July 1, 2017, the Water Planning Council, established pursuant to section 25-330, shall, within available appropriations, prepare a state water plan for the management of the water resources of the state. In developing such state water plan, the Water Planning Council shall: (1) Design a unified planning program and budget; (2) consider regional water and sewer facilities plans; (3) identify the appropriate regions of the state for comprehensive water planning; (4) identify the data needs and develop a consistent format for submitting data to the council, applicable state agencies and regional councils of governments for use in planning and permitting; (5) consider the potential impact of climate change on the availability and abundance of water resources and the importance of climate resiliency; (6) seek involvement of interested parties; (7) solicit input from the advisory group established pursuant to section 25-330; (8) consider individual water supply plans, water quality standards, stream flow classifications, as described in regulations adopted pursuant to section 26-141b, water utility coordinating committee plans, the state plan of conservation and development, as described in section 16a-30, and any other planning documents deemed necessary by the council; (9) promote the adoption of municipal ordinances based on the State of Connecticut Model Water Use Restriction Ordinance for municipal water emergencies; and (10) examine appropriate mechanisms for resolving conflicts related to the implementation of the state water plan.

- (b) The state water plan developed pursuant to subsection (a) of this section shall: (1) Identify the quantities and qualities of water that are available for public water supply, health, economic, recreation and environmental benefits on a regional basin scale considering both surface water and groundwater; (2) identify present and projected demands for water resources on a state-wide and regional basin scale; (3) recommend the utilization of the state's water resources, including surface and subsurface water, in a manner that balances public water supply, economic development, recreation and ecological health: (4) recommend steps to increase the climate resiliency of existing water resources and infrastructure; (5) make recommendations for technology and infrastructure upgrades, interconnections and such major engineering works or special districts which may be necessary, including the need, timing and general cost thereof; (6) recommend land use and other measures, including an assessment of land acquisition or land protection needs, where appropriate to ensure the desired quality and abundance of water and to promote development in concert with available water resources; (7) take into account desired ecological, recreational, agricultural, industrial and commercial use of water bodies; (8) inform residents of the state about the importance of waterresource stewardship and conservation; (9) establish conservation guidelines and incentives for consumer water conservation with due consideration for energy efficiency; (10) develop a water reuse policy with incentives for matching the quality of the water to the use; (11) meet data collection and analysis needs to provide for data driven water planning and permitting decisions; (12) take into account the ecological, environmental, public health and safety and economic impact that implementation of the state water plan will have on the state; (13) include short and long-range objectives and strategies to communicate and implement the plan: (14) seek to incorporate regional and local plans and programs for water use and management and plans for water and sewerage facilities in the state water plan; (15) promote intraregional solutions and sharing of water resources; (16) develop and recommend strategies to address climate resiliency including the impact of extreme weather events; and (17) identify modifications to laws and regulations that are necessary in order to implement the recommendations of the state water plan.
- (c) The Water Planning Council shall provide a time period of not less than one hundred twenty days for public review and comment prior to finalizing such plan. The Commissioners of Public Health and Energy and Environmental Protection, the chairperson of the Public Utilities Regulatory Authority and the Secretary of the Office of Policy and Management shall post such draft plan and information concerning such comment period in a conspicuous location on their respective web sites. The Council on Environmental Quality shall post such draft plan and information concerning such comment period in the Environmental Monitor. The Water Planning Council shall advertise and hold not less than one public hearing during such public review and comment period. After such public comment period, the council shall fully consider all written and oral comments concerning the proposed state water plan. The council shall make available the electronic text of the finalized state water plan on an Internet web site where the finalized state water plan in response to such comments and the reasons for such changes.
- (d) Not later than January 1, 2018, the Water Planning Council, in accordance with section 11-4a, shall submit the state water plan to the joint standing committees of the General Assembly having cognizance of matters relating to the environment, public health, planning and development and energy and technology for said committees' approval, revision or disapproval, in whole or in part. The council shall submit such report to the Governor electronically.



# State Water Plan Development

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### **State Water Plan**

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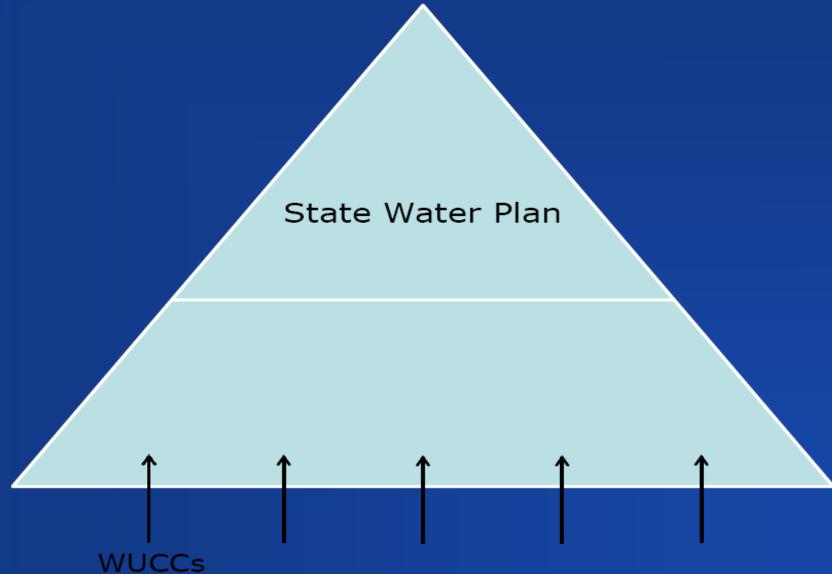


### State Water Plan/WUCCs

- State Water Plan "Not later than July 1, 2017, the Water Planning Council... shall, within available appropriations, prepare a state water plan for the management of the water resources of the state."
- WUCCs "in order to maximize efficient and effective development of the state's public water supply systems and to promote public health, safety and welfare, the Department of Public Health shall administer a procedure to coordinate the planning of public water supply systems."



# The Big Picture



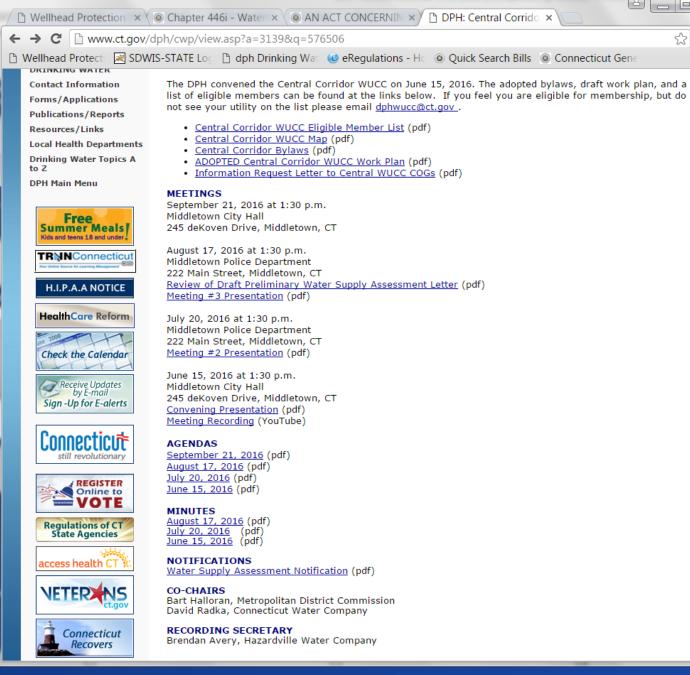


### More information



http://www.ct.gov/dph/wucc







# How towns can follow planning process and stay involved

- Attend meetings
- Mailing list
- Review Assessment/ESAs
- Member?
- Claim ESA?
- Central Corridor WUCC
  - Co-Chair David Radka
  - Co-Chair R. Bartley Halloran
  - Recording Secretary Brendan Avery



### **Questions?**

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www.ct.gov/dph/publicdrinkingwater

www.ct.gov/dph/wucc