

Connecticut Department of Public Health

Coordinated Water Supply Planning Law Water Utility Coordinating Committee

Lori J. Mathieu, Public Health Section Chief Drinking Water Section

WUCC Informational Meetings Middletown, Brookfield & Willimantic, CT. September 22, 24 & 30, 2015



Presentation Outline Coordinated Water Supply Planning Process

- History Connecticut's drinking water regulation
- Department of Public Health's Drinking Water Section
- Coordinated Water System Water Supply Process
 - Statutes and Regulations
 - Current Status
 - Future Plan and Timeline



History – Connecticut's Drinking Water Program



Public Drinking Water Regulation

- History of Public Health & Drinking Water
- US Public Health Service 1798 & 1912
- Connecticut Health Department 1880s & 1917
- US Environmental Protection Agency 1970
- Safe Drinking Water Act (SDWA) 1974, '86 & '96
- CT DPH received primacy for the SDWA 1976



Public Health Concerns Water Supply 19th Century

- Significant public health issue consuming drinking water
- Waterborne disease
- Gastrointestinal infection
- Typhoid, cholera, dysentery were prevalent
- Microorganisms in 19th century,
- Beginning of 20th century filtration, build technology, disinfection, sanitary protections at source, protection of raw water quality



Water Supply Problems – 19th century

- Industries need water for production, fire safety, consumption
- Population growth in Cities
- Water supply inadequate
- Unfiltered
- Untreated water
- Unprotected, poor distribution systems
- Unsanitary conditions, waste disposal
- 1878 CT State Agency Public Health oversight created



Abundant and Safe Water CT Laws – early 20th Century

- 25-32 purity and adequacy DPH to assure and responsible for oversight, broad authority
- 25-33 source approval
- 25-34 investigate and order to stop pollution or threat of pollution
- 25-43 no pollution, no one is allowed to pollute
- 19a assure sanitary conditions



Abundant & Safe Public Drinking Water – late 20th Century

- 25-32d water supply plans 1985
- 25-33c to n Coordinated water system water supply plans
- Updated plans periodically
- 25-32 & 25-37 Water Company Lands
- 25-32b Emergency Response
- 25-32 Certified Operators



Department of Public Health's Drinking Water Section



DPH Drinking Water Section

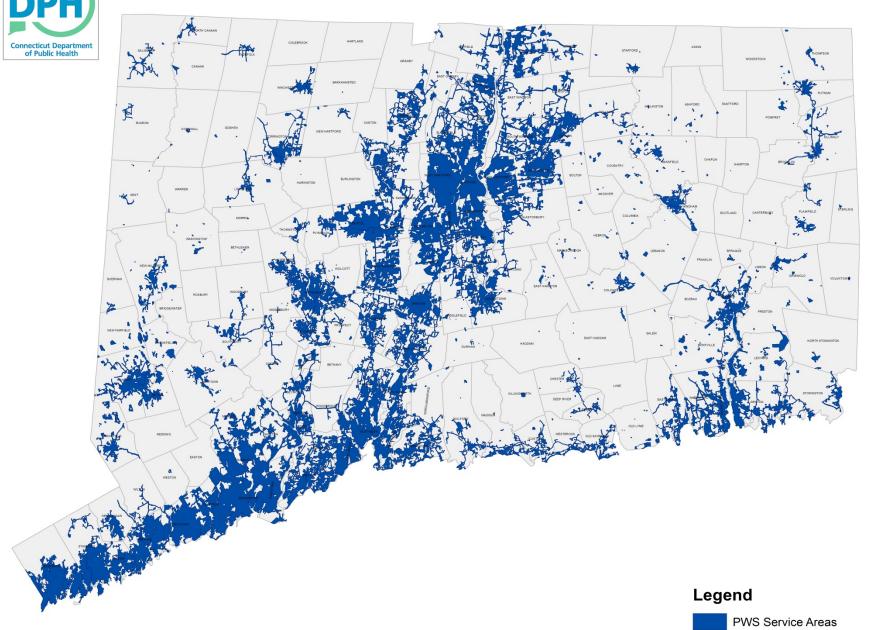
- To protect the public health of Connecticut residents and visitors that consume public drinking water in Connecticut
- Responsible for purity and adequacy oversight statewide for all public water systems
- No waterborne disease outbreaks

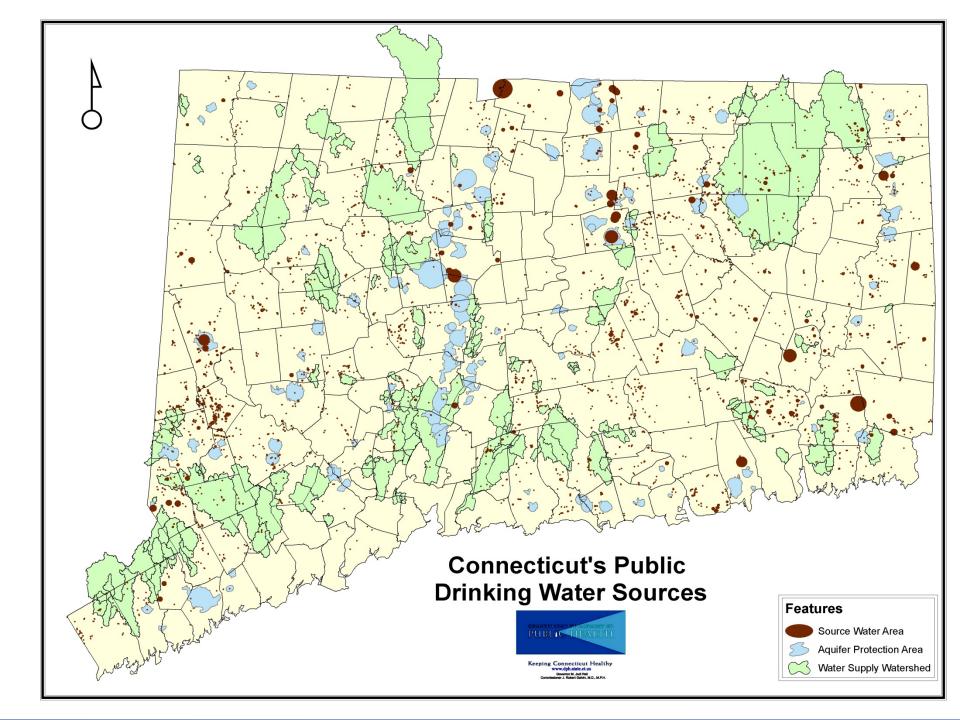


CT DPH Drinking Water Section Responsibilities

- 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 ground water sources
- Largest number of systems in New England, considered a medium size state by EPA

Public Water Supply Service Area





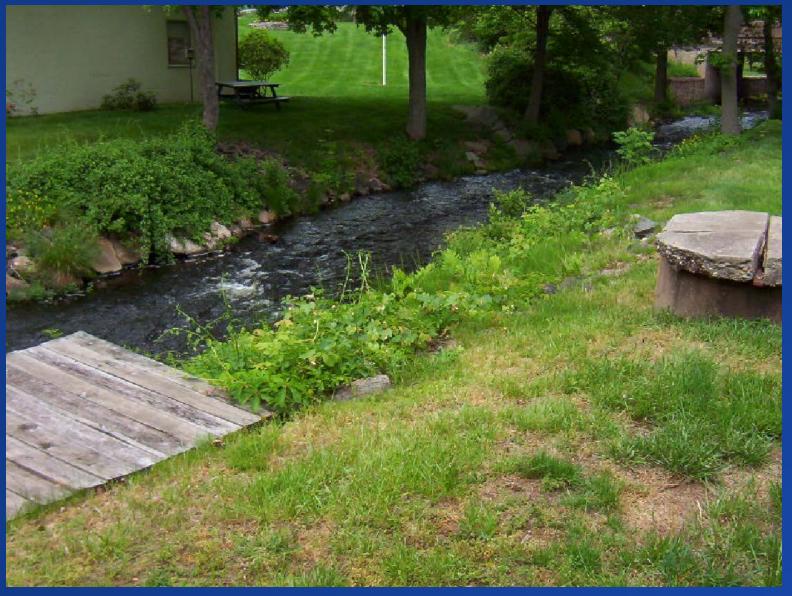


Reservoir system in Connecticut





Small public water system well





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)



Top Causes Public Drinking Water Outbreaks

- Giardia
- Legionella
- Norovirus
- Shigella
- Campylobacter
- Salmonella
- Hepatitis A
- Cryptosporidium
- E. Coli



Importance of an Abundant Supply of Safe and Pure Water for a Community

- Public health protection
- Preservation of public trust
- Allows for community growth
- Allows for a community to plan for future growth
- Assure sanitary conditions for multiple facilities, schools, nursing homes, restaurants, hospitals, town facilities
- Provides sustainability and viability for community
- Public safety, fire protection
- Economic growth
- Priceless



Coordinated Water System Water Supply Planning Process



Coordinated Water System Plans (CWSP)

- What is it CT General Statutes Section 25-32d & 25-33h
- 2. Why does it exist
- 3. How does it operate
- 4. When convened
- 5. What is the present status
- 6. Why is it important
- 7. What is the future vision/thinking
- 8. How to accomplish this vision



CWSP - What is it? & Why does it exist?

- 1981 Drought
- Water Resources Task Force Report
- Legislature created water supply planning CGS Section 25-32d & Sections 25-33c – 25-33i -1985
- Regulations 25-33h-1
- CGS Section 25-33c Legislative Intent –
 ...adequate supply of potable water is vital,
 readily available water for use is limited and
 should be developed with a minimum of loss and
 waste, DPH administer a process to coordinate
 water supply planning



CWSP Statutes

- 25-33d Definitions
- 25-33e Delineation of public water supply management areas, including the eight factors.
- 25-33f WUCC Membership, includes representatives of public water systems and councils of government.
- 25-33g Assessment of water supply conditions and problems & exclusive service areas.
- 25-33h Coordinated water system plan.
- 25-33i Consistency with the coordinated plan adopted pursuant to section 25-33h.



CWSP Regulations

- 25-33h-1
 - (b) Initiation of the Planning Process
 - (c) Responsibilities of the WUCC
 - (d) Contents of the Coordinated Water System Plan
 - (A) Water Supply Assessment
 - (B) Exclusive Service Area Boundaries
 - (C) Integrated Report
 - (D) Executive Summary
 - (e) Plan Preparation
 - (f) Plan Submission
 - (g) Plan Approval
 - (h) Plan Distribution
 - (i) Plan Updates
 - (j) Alteration of Public Water Supply Management Area Boundaries and Priorities
 - (k) Plan Implemented



Public Water Supply Management Areas



WUCC – When were they convened?

- Housatonic WUCC plan completed 1988
- Upper CT River WUCC plan completed 1989
- South Central CT WUCC plan completed 1991
- Southeast WUCC plan completed and approved 2001
- Northeast WUCC not convened
- North West WUCC not convened
- South West WUCC not convened



2014 WUCC Boundary Revisions

- Held three public hearings
- Reviewed all comments
- Followed law in the revision of the boundaries
- Reviewed 8 factors while considering all comments
- WUCC boundaries assured that Town and Council of Government boundaries are upheld
- Report to Commissioner Mullen October 2014



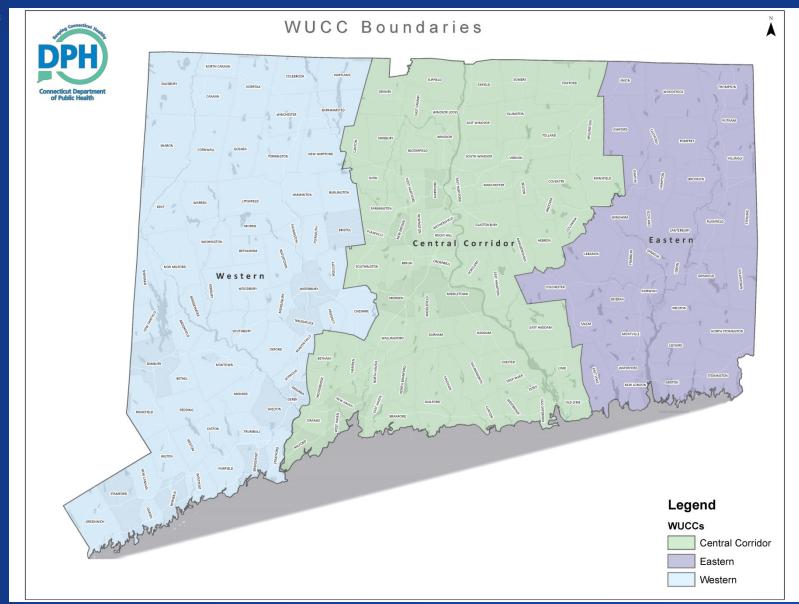
Delineation of Public Water Supply Management Areas

In delineating the final boundaries the following eight factors were considered consistent with CGS Section 25-33e:

- Similarity of water supply problems among water companies
- Population density and distribution
- Locations of existing sources of public water supply, services areas or franchise areas
- Existing interconnections between public water systems
- Municipal and Councils of Government boundaries
- Natural drainage basins
- Topographic and geologic characteristics
- Any other factor the Commissioner deems relevant



New WUCC Area Map





WUCC - Why are they important?

- Discussion of water supply issues
- Regional planning effort
- Use of plan as a guide
- Certificate process
- Bring together CEOs, LHD, COGs, Town Planners, and public water systems
- Highlight on regional water supply needs
- Forum to resolve issues locally
- Guide for water system growth and individual water supply plans – set Exclusive Water Service Areas



WUCC – Moving forward

- Fall 2015 data gathering
- Fall 2015 WUCC informational meetings
- Develop & follow standard procedures
- Early 2016 DPH to hire a consultant to assist the three WUCCs
- Convene three WUCCs in early 2016

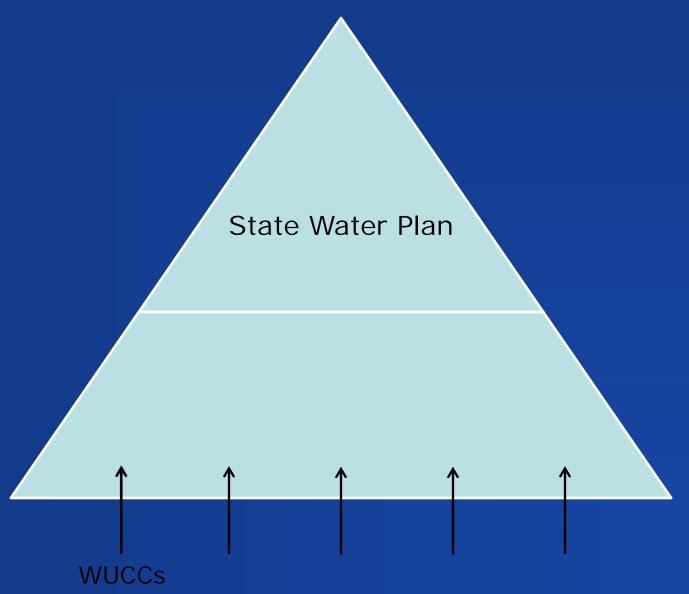


Need to Complete Statewide Water Supply Planning

- Understand water supply needs and excess capacity
- Plan to meet future supply needs
- Include partners and stakeholders
- Additional focus on water conservation and emergency preparedness
- Completion of a State wide Coordinated Water Supply Plan
- Dynamic Plan



The Big Picture





Thank you

