

CORE  
VALUES

CURRENT  
FOCUS

NEW  
OBJECTIVES

EMERGING  
ISSUES

CONNECTICUT

Department of Public Health  
Drinking Water Section

Present and Future Public Drinking Water Initiatives

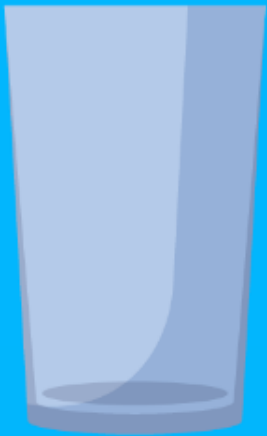




# Responsibilities



**Regulate over 2,550 Public Water Systems with over 4,000 sources (public water system serves 25 or more people)**



**DPH – Primacy over SDWA and State Public Health Laws that protect and provide for Public Drinking Water**

- 2.9 million CT residents served
- 90 systems serve over 1,000 people
- 460 systems serve under 1,000 people - small community systems
- 2,000 non-community systems

# What we do

- Technical Field and Engineering Review/Approval
- Safe Drinking Water Act Rule Data Management
- Public Health Enforcement & Civil Penalty Issuance
- Planning, Permitting and Source Water Protection
- Public Water System Capacity and Transient System Review
- Drinking Water State Revolving Loan Fund Administration
- Grant and Contract Administration

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# LEAD

- High Lead Samples should automatically indicate Lead Public Notifications and Education
- DO NOT WAIT for us to contact you
- Public Health and Safety could be exposed
- Public Notifications, Administrative Orders, Consent Orders

- **Water Infrastructure Improvements for the Nation (WIIN) Act enacted on December 16, 2016 modified Section 1414 of the Safe Drinking Water Act to include public notification requirements for exceedances of the lead action level under the Lead and Copper Rule.**
- **As a result, the CWS or NTNC public water system are required to provide public notice as soon as practical, but not later than 24 hours - Per WIIN Act and DWS Circular Letter # 2017-06 (July 17, 2017).**

# Drought

## Drought of 2016 & 2017

- Key Take Aways
- Drought Triggers
- Drought Planning





# Municipal Ordinances



- Clarifying the Confusion with Multiple Towns
- Towns working with Utilities



# Water Conservation & Water Efficiency



A  **NEW**  ETHIC

# WUCC

## Water Utility Coordinating Committees

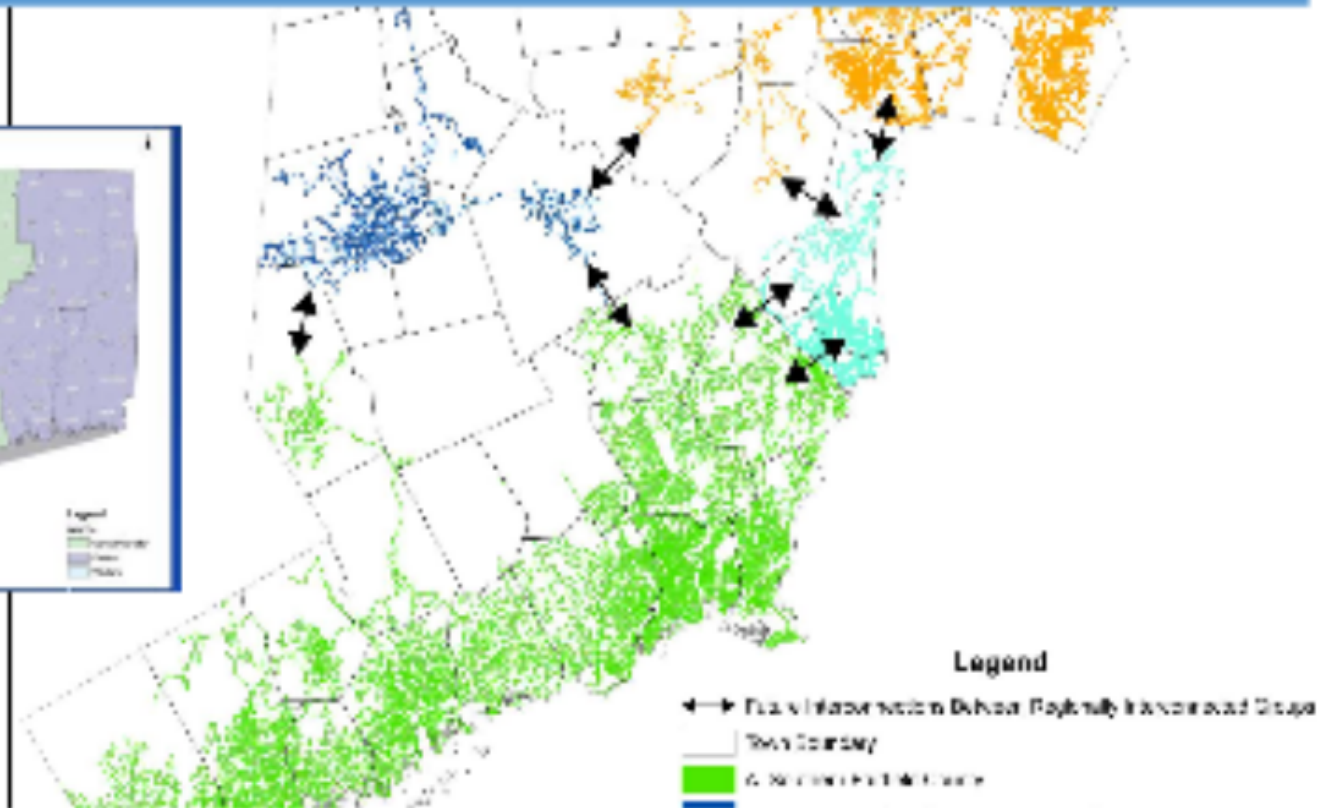


- **WUCC Process Finalization**
- **Statewide WUCC Plan**
- **Review of Integrated Report**

**How it relates to the State Water Plan**



- Water Utility Coordinated Committee (WUCC) Integrated Report drafts will be published for public review and comment in March.\*



\* Pending approval by the committee.

- The reports provide data, analysis and recommendations, both at a regional scale and system-specific, for Connecticut's PWSs.

no longer have a deficit to meet MMADD in the 20-year planning horizon. The projected supply need for CWSs in the region including both passive water conservation measures and potential guidance was reduced to 1.3 mgd, 7.3 mgd, and 11.0 mgd over the three planning horizons.

While the use of available water guidance would not eliminate the need for new sources entirely (except for Noank Fire District), it does defer the need for new sources to later planning periods. This would allow utilities projecting deficits to reconsider their previous demand projections, develop targeted water conservation programs, and implement short-term supply measures (such as interconnections). Should the CWSP be updated on the 10-year schedule envisioned in the regulations, projected regional needs could be reevaluated prior to the 20-year planning horizon (2030) with such improvements in place.

**Recommendation 5:**

The WUCC should coordinate with DPH on a methodology for calculation of available water and margin of safety which provides more flexibility for the numerous caveats in supply which are unrelated to the potential most limiting factor in the calculation.

**Finding #5:** *The viability of small CWSs continues to be a concern. Recent DPH efforts to identify systems with inadequate capacity have been greatly beneficial for both planning and regulatory*

- Topics include: conservation, drought triggers, safe yield, capacity, small system plight, source protection, minimum streamflow
- Please review and provide comments
- <http://www.portal.ct.gov/DPH/Drinking-Water/WUCC/Water-Utility-Coordinating-Committee>

Table 6: Summary of Available Water Deficits for Community Water Systems (mgd)

Community Water System	Scenario A: Utility Projections			Scenario B: Utility Projections with Passive Water Conservation			Scenario C: Utility Projections with Passive Water Conservation and Available		
	Total New Sources Needed	Total New Sources Needed	Total New Sources Needed	Total New Sources Needed	Total New Sources Needed	Total New Sources Needed	Total New Sources Needed	Total New Sources Needed	
	to Meet MDS 1.18 by 2028	to Meet MDS 1.18 by 2050	to Meet MDS 1.18 by 2090	to Meet MDS 1.18 by 2028	to Meet MDS 1.18 by 2050	to Meet MDS 1.18 by 2090	to Meet MDS 1.18 by 2028	to Meet MDS 1.18 by 2050	to Meet MDS 1.18 by 2090
Aquifer Water Company - Mystic System	-	0.399	0.612	-	0.229	0.297	-	-	0.194
Shoreline Water System - Wallingford	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
Culverden Water & Sewer Commission	-	-	0.216	-	-	0.206	-	-	0.186
East Lyme Water & Sewer Commission	-	0.710	1.027	-	0.629	1.021	-	0.104	1.011
Fair Brook Middle Horse Park	0.028	0.028	0.028	0.028	0.027	0.027	0.028	0.027	0.027
Middletown WPCA	-	-	0.036	-	-	0.271	-	-	0.271
New London Dept. of Public Utilities & Waterford Utility Commission	2.028	2.028	2.028	2.028	2.028	2.028	-	2.028	2.028
Norwich H&O DIST	0.180	0.180	0.180	0.180	0.180	0.180	-	-	-
Norwich Public Utilities	1.890	4.997	5.818	1.897	4.890	5.268	1.898	4.870	4.999
Proctor Falls Water Company	-	0.027	0.027	-	0.027	0.027	-	0.027	0.027
<b>TOTAL</b>	<b>4.024</b>	<b>8.020</b>	<b>12.226</b>	<b>3.871</b>	<b>8.048</b>	<b>12.429</b>	<b>1.297</b>	<b>7.338</b>	<b>11.044</b>

Total available water need accounts for reduction of available water due to stream-flow recesses.

# CIRCA Plan

- DWS has received \$600,000.00 Grant to develop a Drinking Water Vulnerability Assessment and Resiliency Plan.
- December 21, 2016 DPH entered an agreement with UConn's Connecticut Institute of Resilience and Climate Adaptation (CIRCA) to help prepare the Plan.



- **DWVAR Plan Workshop April 6th 2018.**  
**All stakeholders are strongly encouraged to participate.**





# State Water Plan

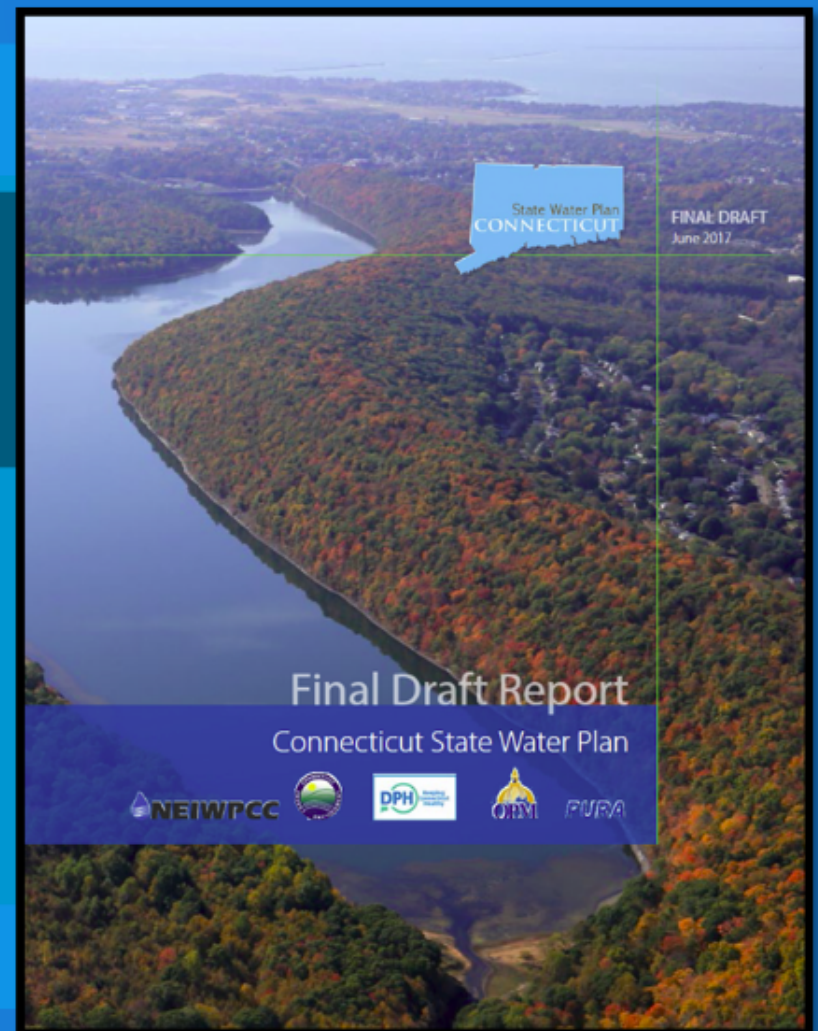


# State Water Plan



The plan is moving forward:

- Support Final Plan adoption
- Prioritize topics and tasks
- Discuss additional topics identified for future consideration



# State Water Plan Adoption Process



\* Per CGS 22a-352(h) if no affirmative vote of General Assembly within 24 months of submittal, SWP goes to Governor for approval / rejection.

[www.ct.gov/water](http://www.ct.gov/water)

# Key Highlights of the State Water Plan



Platform for consistent, informed decision making



Maintain highest quality drinking water



Balance in-stream and out-of-stream needs



Water conservation



Maintain scientific data

[www.ct.gov/water](http://www.ct.gov/water)

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# EPA's Revised Lead & Copper Rule

Some new  
changes are  
coming

**Certified Operators:**  
Please Review EPA  
Guidance

**Small Systems**  
may need  
assistance

# FOIA Updates

- Public Act No. 17-211 - Passed
- An Act Concerning Access to Water Planning Information
- We need Redacted Plans



# Assessment Fees

- Public Act No. 17-2 Passed
- Circular Letters address what is to come
- <http://www.portal.ct.gov/DPH/Drinking-Water/DWS/Fee-Study>





# Asset Management

- Draft Proposal of House Bill 5151
- Asset Management will be a requirement of Community System going forward
- DWSRF website offers tools (such as Checklist for A.M., and accepted plan criteria)
  - <http://www.portal.ct.gov/DPH/Drinking-Water/DWS/Drinking-Water-State-Revolving-Fund-Program>
- Future SRF applications will require an Asset Management plan as well as a Financial Plan for Community systems.



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# Legionella

## Ecology:

- Legionella are most commonly found in water, including groundwater, fresh and marine surface waters, and potable (treated) water.
- Legionella are protected against standard water disinfection techniques, by their symbiotic relations with later microorganisms.



## Occurrence:

- Legionella are relatively resistant to standard water disinfection procedures and, can occur in potable water.
- Other waters in which Legionella have been found include cooling towers, evaporative condensers and whirlpools. These bacteria may be transported from potable water to air by faucets, showerheads, cooling towers, and nebulizers.

# CMS - Centers for Medicare and Medicaid Services

- An official letter has gone out to locations who receive funding
- Requiring Water Management Plans for Medical Facilities
- Facility Requirements to Prevent Legionella Infections



Circular Letter: October 26, 2017.



# Civil Penalties



- We are still very focused on technical guidance and achieving compliance
- We want to work with Certified Operators and all Public Water Systems
- Civil Penalties will be coming back for occasions of repeated negligence
- Truthfully its not goal to impose penalties but we need to ensure accountability & safety



# Water Quality Samples and Monitoring

- Weekly we review a 'Results Alert' page
- DO NOT WAIT for us to contact you
- Important ACL and MCL levels should be addressed immediately with the Water System

**Results Alert**

**CENTRAL REGION**

PWS Name	PWS Status - Class - Type - Pop	Sample Date	Sample ID (Type)	Analyte Name (Code)	Result	Threshold	Flag
[REDACTED]	A - C - SWP - 1488	10/27/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	0.0000 MG/L	0.0000 MG/L (ACL)	ACL
[REDACTED]	A - C - GW - 140	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	3	1 COUNT (ACL)	
[REDACTED]	A - C - GW - 71	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - C - GW - 250	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - C - GW - 250	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 78	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 78	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 84	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 88	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 88	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 85	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 85	11/7/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	

Friday, November 24, 2017 Page 5 of 25

**Results Alert**

**EASTERN REGION**

PWS Name	PWS Status - Class - Type - Pop	Sample Date	Sample ID (Type)	Analyte Name (Code)	Result	Threshold	Flag
[REDACTED]	A - NTNC - GW - 250	12/6/2017	[REDACTED] (RT)	E. COLI (3054)	1	0 COUNT (MCL)	MCL
[REDACTED]	A - NTNC - GW - 85	12/29/2017	[REDACTED] (RT)	PENTACHLOROPHENOL (2326)	0.0016 MG/L	0.001 MG/L (MCL)	MCL
[REDACTED]	A - NC - GW - 37	12/21/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - C - GW - 43	9/27/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1.42 MG/L	1.3 MG/L (ACL)	ACL
[REDACTED]	A - C - GW - 43	1/10/2018	[REDACTED] (RT)	COUFORM (TCR) (3100)	0.515 MG/L	0.015 MG/L (ACL)	ACL
[REDACTED]	A - C - GW - 43	1/10/2018	[REDACTED] (RT)	COUFORM (TCR) (3100)	0.0157 MG/L	0.015 MG/L (ACL)	ACL
[REDACTED]	A - C - GW - 43	1/10/2018	[REDACTED] (RT)	COUFORM (TCR) (3100)	0.0157 MG/L	0.015 MG/L (ACL)	ACL
[REDACTED]	A - C - GW - 43	1/10/2018	[REDACTED] (RT)	COUFORM (TCR) (3100)	0.012 MG/L	0.015 MG/L (ACL)	ACL
[REDACTED]	A - NTNC - GW - 310	12/28/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 310	1/10/2018	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 310	12/28/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 310	1/10/2018	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 310	12/18/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	
[REDACTED]	A - NTNC - GW - 485	12/1/2017	[REDACTED] (RT)	COUFORM (TCR) (3100)	1	1 COUNT (ACL)	

January 12, 2018 Page 13 of 25

**TAKE ACTION IN REAL TIME!**

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