



CONNECTICUT DEPARTMENT OF PUBLIC HEALTH



CT Department of Public Health Public Drinking Water Topics

CWWA-CT Section AWWA
Annual Meeting
October 26, 2023

Environment Health and Drinking Water Branch

Cindy Sek, Supervising Environmental Engineer

Sara Ramsbottom, Environmental Engineer 3

Patricia Bisacky, Supervising Environmental Analyst

Cheryl Fields, Toxicologist

Agenda

- Lead and Copper Rule Revisions (LCRR)
- Drinking Water State Revolving Fund (DWSRF)
- Emerging Contaminants
- PFAS and Lithium Guidance Values

Lead and Copper Rule Revisions Service Line Material Inventory

Cindy Sek

Supervising Environmental Engineer

Rule Implementation Unit

Drinking Water Section

Connecticut Department of Public Health

Lead and Copper Rule Revisions

- Final Lead and Copper Rule Revisions (LCRR)
 - Effective date: 12/16/2021
 - Compliance date: **10/16/2024**
- **Initial Service Line Material Inventory**
 - Lead
 - Galvanized Requiring Replacement (GRR)
 - Non-Lead or Actual Material
 - Lead Status Unknown

Lead and Copper Rule Revisions

- **Final CT DPH LCRR Material Inventory Template**
 - Circular Letter # 2023 - 33 published on 8/10/2023
 - Submit to DPH by **10/16/2024**

- Lead and Copper Rule Improvements (LCRI)
coming soon.....

Lead and Copper Rule Revisions

💧 Material Inventory Trainings

1. **Friday, 10/27/2023**
2. **Wednesday, 11/1/2023**

Location: Goodwin University

Time: 12:30 PM to 3:30 PM

Circular letter 2023-44 – for community systems > 500 people

Circular letter 2023-45 – for small community and non-transient
non-community (NTNC) systems

💧 CT DPH DWS Monthly Informational Webinar

Drinking Water State Revolving Fund (DWSRF)

Sara Ramsbottom

Environmental Engineer 3

Drinking Water State Revolving Fund Unit

Drinking Water Section

Connecticut Department of Public Health

Drinking Water State Revolving Fund

- Intended Use Plan - IUP
- SFY 2023 IUP in effect
 - Includes Bipartisan Infrastructure Law (BIL) Year 1 funds
 - Moving loan agreements
 - Reviewing projects
- Draft SFY 2024 IUP
 - Includes BIL Year 2 funds
 - Project requests: 249 projects \$1.24 Billion
 - Funding available: approx. \$367 million
 - Public hearing held 10/4/23; reviewing comments
 - Drafting Hearing Report, which will include Final SFY 2024 IUP

DWSRF – Next Year

- Call For Projects – SFY 2025
 - Includes BIL Year 3 funds
- Possible Schedule
 - Early 2024 – submit new projects & updates as needed for existing projects
 - Spring 2024 – Draft SFY 2025 IUP available for review
 - Summer 2024 – public hearing
 - Summer/Fall 2024 – Final SFY 2025 IUP available

DWSRF – Important Items

DWSRF Unit Staff

- Cam Walden – Supervisor
 - Sara Ramsbottom
 - Raul Tejada
 - Florin Ghisa
 - Joseph Buehler
 - Brianna Vetel
 - Antoine Marseille
 - Philip Tang
 - Ruby Marentes
- Communication
 - Project timelines & time for DPH reviews
 - Project location – is it in or near floodway, flood zone, flood path? NDDDB?
 - Build America, Buy America
 - BIL Lead Service Line Funding & Needs Survey update

Emerging Contaminants

Patricia Bisacky

Supervising Environmental Analyst

Emerging Contaminants Unit

Environmental Health and Drinking Water Branch

Connecticut Department of Public Health

Emerging Contaminants in Small or Disadvantaged Communities Grant and DWSRF

Water Infrastructure Investment for the Nation Act

\$15.6 M allocated for drinking water projects

Who is eligible?

Public water systems serving small or disadvantaged communities

Examples of Eligible Projects

- Planning and Design
- Treatment systems
- Workforce Development

Co-Funding

DWSRF Loan; DWSRF BIL EC Subsidy
EC-SDC co-funding



National Primary Drinking Water Rule for PFAS

- Expect the final rule by the end of 2023
- PFAS projects will remain fundable
 - Bipartisan Infrastructure Law Emerging Contaminants Subsidy
 - Emerging Contaminants in Small or Disadvantaged Communities Grant

Fifth Unregulated Contaminant Monitoring Rule

- Monitoring running 2022 through 2024
- 29 PFAS and lithium
- EPA's next public data release late October
- Check the Safe Drinking Water Accession and Review System (SDWARS) and verify your results!
- Notify your customers if you have detections.

PFAS and Lithium Guidance Values

Cheryl Fields
Toxicologist

Environmental and Occupational Health Assessment Program
Environmental Health and Drinking Water Branch
Connecticut Department of Public Health

Possible Health Effects of PFAS

The main health concerns for PFAS come from studies in laboratory animals.

Studies of human populations exposed to elevated levels of PFAS generally support the effects seen in lab animals.

- Reproductive and developmental (e.g., low birth weight and growth)
- Reduced immune function (e.g., decreased antibody response to vaccines)
- Changes in liver, kidney, and thyroid
- Disturbs natural hormones and lipids (e.g., cholesterol)

In humans, PFOA is linked to kidney cancer, as well as testicular cancer at very high exposures.

DPH Drinking Water Action Levels

PFAS	Critical Health Effect	Action Level (µg/L)
9Cl-PF3ONS (6:2-Cl-PFESA)	Liver	0.002
11Cl-PF3OUdS (8:2-Cl-PFESA)	Liver	0.005
PFOS	Immune	0.01
PFNA	Developmental	0.012
PFOA	Developmental	0.016
HPFO-DA (aka GenX)	Liver	0.019
PFHxS	Thyroid	0.049
PFHxA	Developmental	0.24
PFBS	Thyroid	0.76
PFBA	Thyroid	1.8

DPH Drinking Water Action Levels

Lithium Drinking Water Action Level (DWAL) = **40 ppb**

- Health-based Comparison Value used by federal ATSDR
- Technically feasible value derived from the most sensitive health effect in humans treated with lithium medication

Human health effects

- Acute effects: GI effects (nausea, vomiting, diarrhea)
- Long-term use: may affect thyroid, kidneys and heart function

Less is known about potential health effects from lithium in drinking water where exposures are 100-1000 times lower than from medicinal uses

- Lithium in drinking water may be from natural or man-made sources

Resources - LCRR

- 🔹 EPA's LCRR website: [Revised Lead and Copper Rule | US EPA](#)
- 🔹 [Circular Letter 2023-33](#) - LCRR Final Material Inventory Template
- 🔹 Final [CTDPH LCRR Material Inventory Template - 2023](#)
- 🔹 [Circular Letter 2023-44](#) - Large Systems Material Inventory Training & Registration
- 🔹 [Circular Letter 2023-45](#) - Small Systems & NTNC Material Inventory Training and Registration
- 🔹 CTDPH DWS Informational Webinar - [Registration link](#)

Resources – PFAS, Lithium, DWSRF

- 🔹 [DPH PFAS Frequently Asked Questions](#)
- 🔹 [Notification Templates for PFAS detections](#)
- 🔹 [Circular Letter 2022-30](#) Updated PFAS Drinking Water Action Level
- 🔹 [Circular Letter 2023-24](#) Drinking Water Action Levels for Six PFAS
- 🔹 [DPH Lithium Fact Sheet](#)
- 🔹 [DWSRF](#)
- 🔹 DWSRF questions: DPH.CTDWSRF@ct.gov

Thank You

Cindy Sek cindy.sek@ct.gov

Sara Ramsbottom sara.ramsbottom@ct.gov

Pat Bisacky patricia.bisacky@ct.gov

Cheryl Fields cheryl.fields@ct.gov