

Clean Water SoCal

Committee Updates

Clean Water SoCal Board Meeting

June 6, 2024



CLEAN WATER SoCAL
CREATING SUSTAINABLE SOLUTIONS

Water Quality Committee

Priorities & Events:

- Generative AI Hands on Workshop Part 1- Learning to Prompt like a Pro
- Pop- up Meeting San Francisco PUC Supreme Court Decision
- Hf183 & Exfiltration
- PFAS National Study and Inclusion in Permits
- Water Energy Nexus – Interactive Panel Discussion
- One Water Planning –Water Collaboration Across the Silos
- General Water Committee Meeting
 - Regulatory Updates virtual meeting
- Artificial Intelligence Workshop Part 2 – Diving Deep into Use Cases
- Outfall Owners Workshop

AI in the Water Space



The Role of Generative AI (GenAI) for the Global Water Sector (5321)

Principal Investigator: David Hale, AWWA

Goals and Objectives

The project aims to collaborate with a diverse group of global water utilities to develop guidelines and recommendations for the water sector regarding the use of Generative AI (GenAI). Over the course of a year, the initiative will explore how GenAI can enhance operational efficiency, strengthen utility resiliency, and accelerate digital transformation. Through hands-on experimentation with GenAI capabilities, knowledge sharing, and collective identification of best practices, the project seeks to establish a clear roadmap for effectively leveraging this technology across the sector.



The Objective(s) are:

- Establish a foundational understanding of the potential role of GenAI for municipal water and wastewater utilities and cultivate a common vocabulary that can be used across the sector.
- Develop a set of guidelines and best practices for the use of GenAI and Large Language Models (LLM) in the municipal water sector.
- Develop case studies that showcase examples of how GenAI is used at municipal water utilities.
- Develop a GenAI research roadmap for the municipal water sector.



Pop Up Topic - Alert



CLEAN WATER SoCAL
CREATING SUSTAINABLE SOLUTIONS



POP-UP MEETING ALERT

San Francisco PUC Supreme Court Decision

Zoom meeting • Members Only

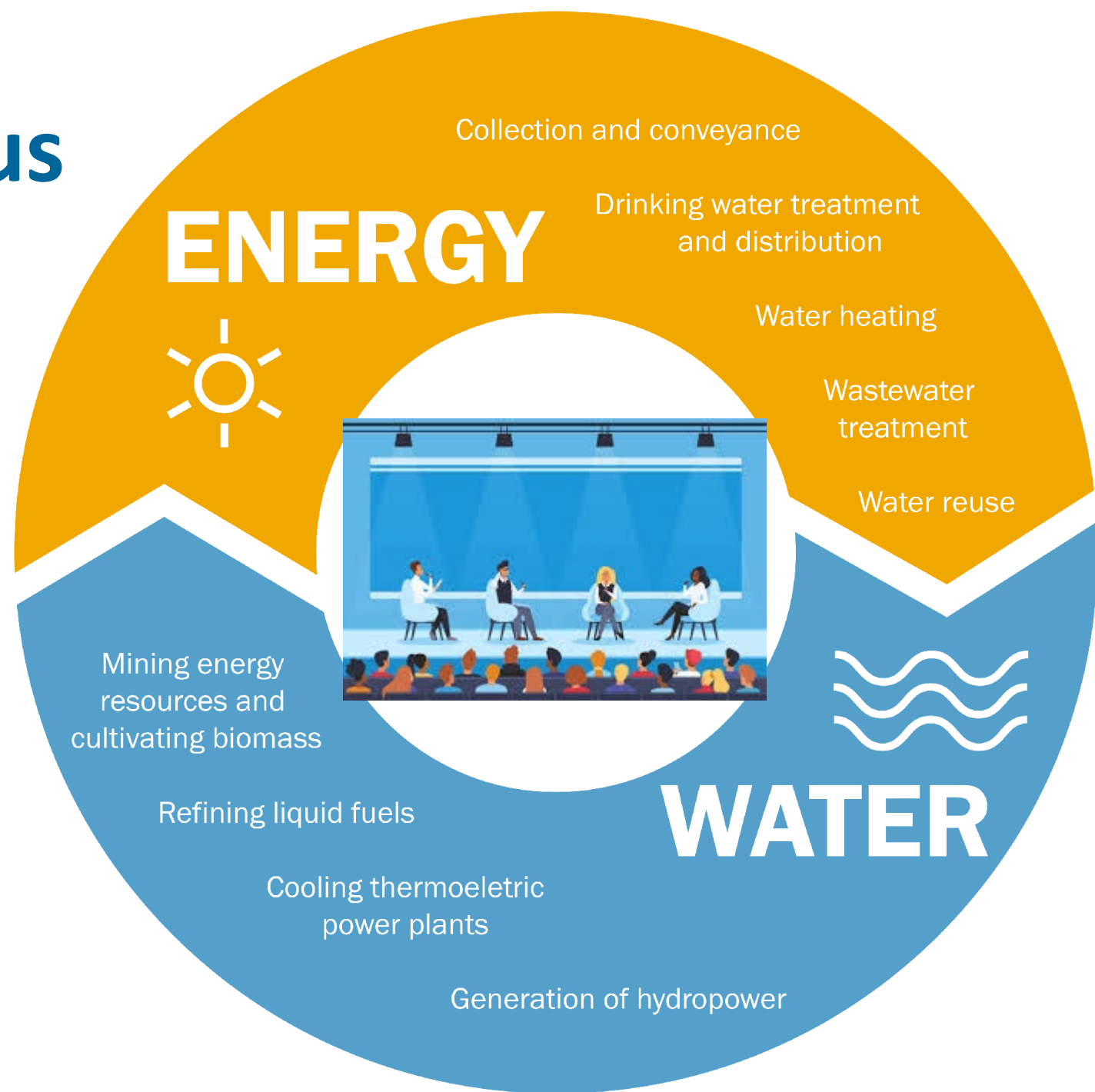


Tracie E. Stender
Snell & Wilmer

Energy/Water Nexus

Some potential topics for discussion could include:

- Energy efficiency in wastewater treatment processes
- The role of renewable energy in water and wastewater operations
- Strategies for reducing carbon footprints in water utilities
- The integration of energy storage solutions in water systems
- Collaborative opportunities for utilities to optimize energy and water usage



Collection System Committee

Priorities & Events:

SSS WDR Reissuance

- Notification of SSMP Audit Deadline
- Notification of SSMP Recertification Deadline

In-person Meeting at IEUA with CASA

Focus of Last Year Has Been

- SSS WDR Guidance Document
- Exfiltration
- CARB Advanced Clean Fleet implementation
- Transition to in-person meetings

Pretreatment Committee

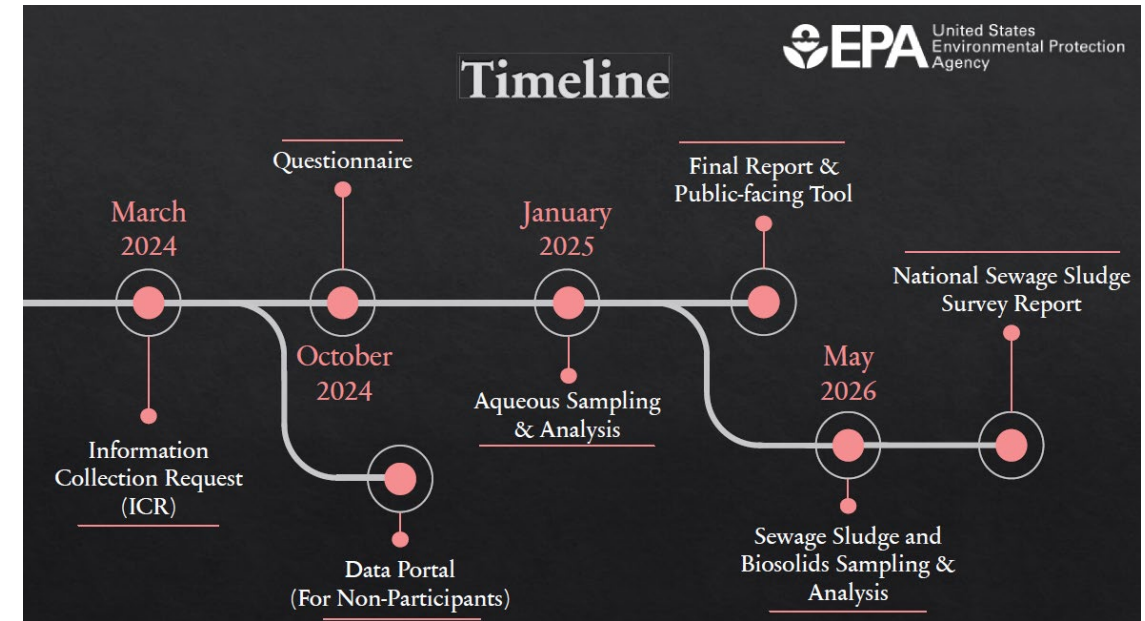
- **Past and Future Events**
- **EPA PFAS Studies – Influent & Biosolids**
- **EPA ELGs Update**
- **Other Emerging Contaminants**



PFAS POTW Aqueous Influent Study

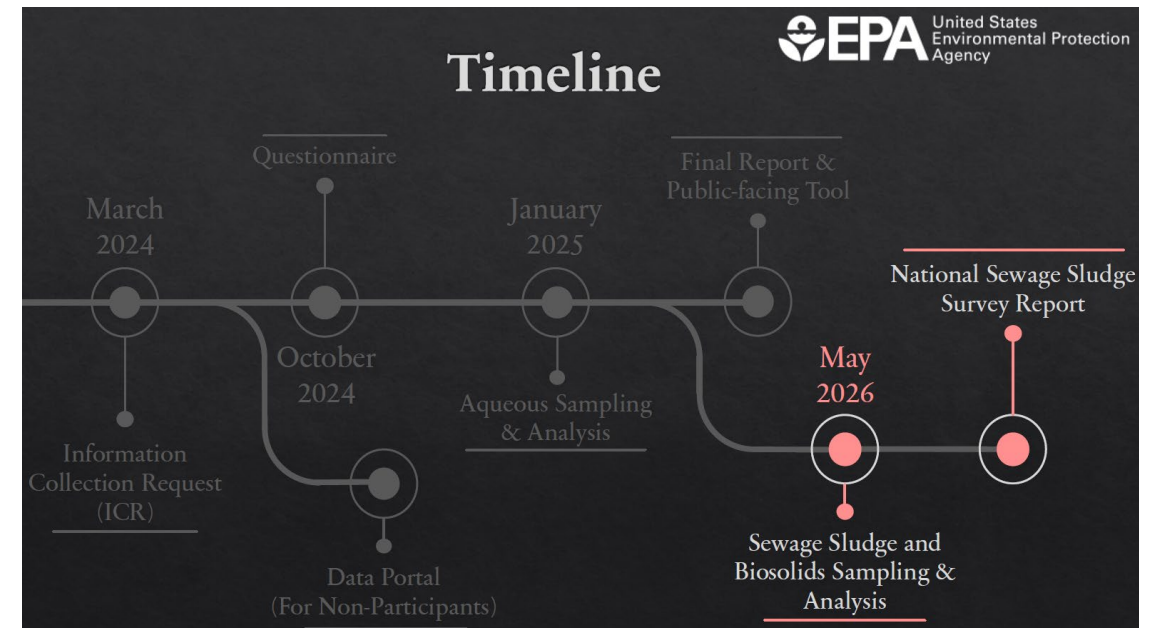
EPA is conducting a POTW Influent Study - mandatory sampling at up to 400 of the largest POTWs (NACWA included list in draft sampling narrative), with each POTW conducting one-time sampling of **influent, effluent, biosolids**, and up to **ten industrial users**.

- 3/26/24 – EPA Published **ICR** in FedReg: *Proposed Information Collection Request; Comment Request; POTW Influent PFAS Study Data Collection*
- Expect notification letters to be received by mail.
- EPA will provide sampling plan. POTWs responsible for sampling collection (all grab) and lab analysis.
- Aqueous sampling methods: 1633 (40 analytes) and 1621 AOF. Both methods approved and published Jan. 2024.



PFAS POTW Biosolids Study

- After completion of aqueous study, biosolids study will begin. Sampling to begin May 2026.
- All samples will be grab samples analyzed using:
 - PFAS - Method 1633
 - Metals – Method 6010
 - TOC – Method 9060
 - TS, VS, and fixed solids – Method 2540



Effluent Limitation Guidelines

Ongoing ELG Rulemakings

- **Steam Electric Category**: strengthens pollution control from coal fired power plants. Final rule published 5/9/24.
- **Meat & Poultry Products**: addresses nutrient discharge. Proposed Rule published Dec. 2023. Comments under review.
- **PFAS Manufacturers (Organic Chemicals, Plastics & Synthetic Fibers (OCPSF))**: addresses PFAS in discharge. Aiming for publication by end of 2024.
- **Metal Finishers**: to address PFAS with a focus on facilities that use PFAS-based fume suppressants. 2025 target publication.
- **Electrical and Electronic Components**: No further action currently. Monitoring to be conducted through influent study.
- **Airports and Pulp & Paper Manufacturing**: EPA will continue to monitor phase out of PFAS.

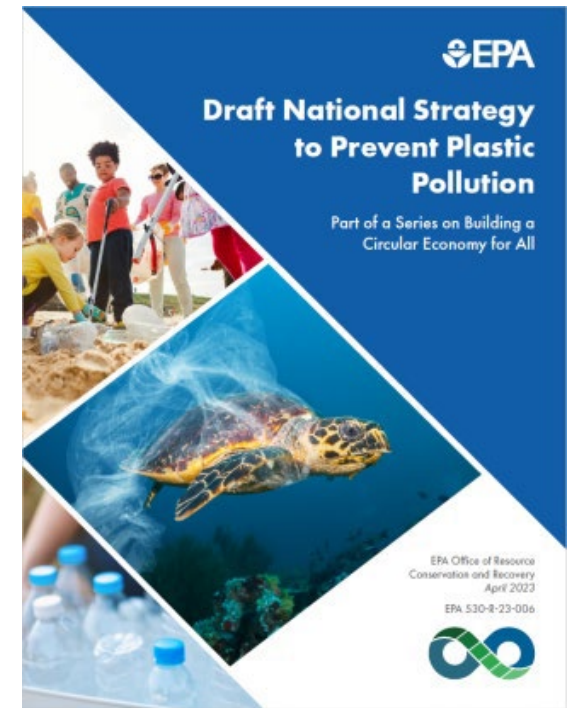
New Rules

- EPA intends to initiate new rulemaking to revise ELG for landfills to address PFAS
- EPA initiating a study to gather non-PFAS data on CAFOs
- EPA gathering data to study Textile Mills
- EPA conducting category reviews for 3 categories:
 - Paint Formulating
 - Leather Tanning
 - Plastics Molding and Forming



Emerging Contaminants

- **DRAFT NATIONAL STRATEGY TO PREVENT PLASTIC POLLUTION**
- 3 key objectives for the strategy:
- **Objective A:** Reduce pollution during plastic production.
- **Objective B:** Improve post-use materials management.
- **Objective C:** Prevent trash and micro/nanoplastics from entering waterways and remove escaped trash from the environment.



- **Funding to help with Emerging Contaminants**

- PFAS
- Pharmaceuticals and personal care products (PPCPs)
- Microplastics
- Anti-microbial resistant bacteria
- 6PPD-quinone (stabilizing additive in rubbers/tires)
- Harmful Algal Blooms

The image is a screenshot of the EPA website page titled "Clean Water State Revolving Fund Emerging Contaminants". The page has a blue header with the EPA logo and navigation menus for "Environmental Topics", "Laws & Regulations", "Report a Violation", and "About EPA". A search bar is also present. The main content area includes a sidebar with a table of contents for the CWSRF, with "CWSRF Implementation" highlighted. The main text area features the title "Clean Water State Revolving Fund Emerging Contaminants" and a paragraph explaining that the Bipartisan Infrastructure Law appropriates \$1 billion over five years (FY 2022 to FY 2026) to the CWSRF for addressing emerging contaminants like PFAS. Below this, there is a "Fact Sheet" section with a link to a PDF version of the "CWSRF Emerging Contaminants Fact Sheet (pdf)" (127.7 KB) and a note to scroll down to view the fact sheet online. At the bottom, there is a section titled "Clean Water Emerging Contaminants Funding" with a small graphic and text explaining the funding details.

Energy Committee Events

Virtual Presentation on Alternative Electricity Generation Technologies from Biogas

Date: Q3 of 2024

Clean Water SoCal Energy Committee Meeting June 5, 2024

Topics covered:

Energy Funding Sources with IRA & SGIP

Biogas Utilization Planning

Renewable Energy Trends, Resource Adequacy and Renewable Portfolio Standards

Update on Energy Rates and Strategies for Reduction

General Meeting at LACSD's A.K. Warren Facility

Energy Committee Priorities:

Priorities:

- ❑ **Upcoming changes to Resource Adequacy requirements**
- ❑ **Electricity Prices expected to remain high through 2026**
 - ❑ Potential extreme summer weather may still constrain grid due to lack of generation during peak hours
 - ❑ Significant amounts of battery storage capacity expected to come online in 2026
 - ❑ Utilities continue to invest significant capital in grid hardening efforts driving up delivery and transmission costs
- ❑ **Electrification of the transportation sector and AI/data center buildout continues to grow at a fast pace**
 - ❑ Large fleet operators must begin planning for tomorrow's charging infrastructure today
 - ❑ Electricity demand is expected to increase by 1% every year through 2035
- ❑ **Hydrogen is here to stay and will be part of the ZEV future**
 - ❑ Los Angeles selected by DOE to be a Hydrogen Hub, set to receive more than \$1B in funding to help build infrastructure

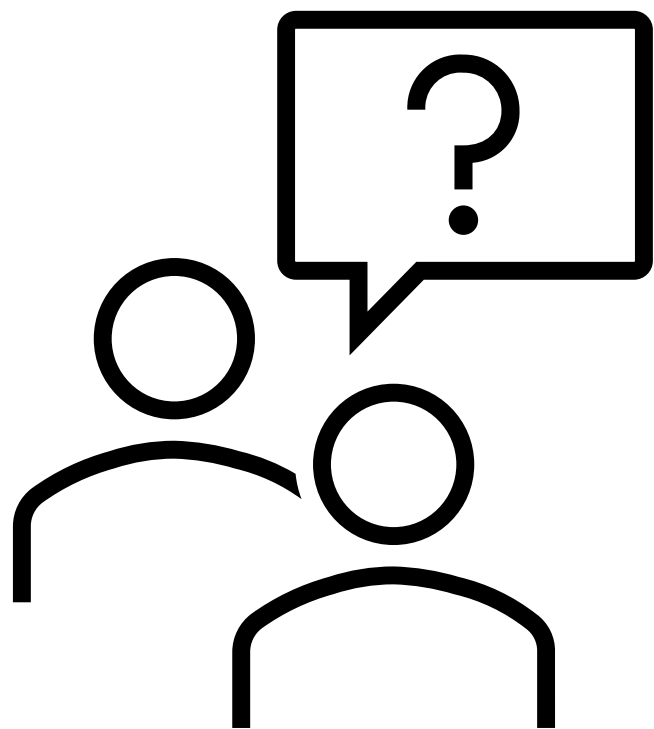
Biosolids Update

- PFAS- EPA's Influent Study- Effluent Guidelines Program Plan 15
- U.S. EPA's Biosolids Risk Assessment- expected to be published by the end of 2024
- PFAS National Study Update- University of Arizona
- SB 1383- County Biosolids Ordinances

Coming Soon...

- Clean Water SoCal Biosolids Biennial Trend Survey- late June 2024
- Facility Tours- late Summer
 1. Inland Empire Utilities Agency Compost Facility
 2. Orange County Sanitation District (Super Critical Water Oxidation)
- Biosolids Panel Discussion with other biosolids stakeholders (CASA, Lystek, Synagro, etc.)





Questions?

