

KEY REGULATORY ISSUE SUMMARY Updated January 30, 2023

Action items for member agencies are in **bold**

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NUTRIENTS IN SAN FRANCISCO BAY

- San Francisco Bay receives some
 of the highest nitrogen loads among
 estuaries worldwide, yet has not
 historically experienced the water
 quality problems typical of other
 nutrient-enriched estuaries. It is not
 known whether this level of nitrogen
 loading, which will continue to
 increase in proportion to human
 population increase, is sustainable
 over the long term.
- Because of the complexity of the science behind nutrient impacts in SF Bay, stakeholders in the region are participating in the Nutrient Management Strategy (NMS) steering committee to prioritize scientific studies and ensure that all science to be used for policy decisions is conducted under one umbrella.

- For FY23, BACWA is contributing \$1.8M to fund scientific research needed to make management decisions for the 3rd Watershed Permit. This funding is required by the 2nd Watershed Permit.
- The focus of current scientific efforts is improving model representation of biogeochemistry, light attenuation, dissolved oxygen, and Harmful Algal Bloom dynamics. Field and lab observations are supporting these improvements.
- The science team is developing an Assessment Framework for Open Bay habitats and Lower South Bay sloughs.
- In summer 2022, a harmful algae bloom in San Francisco Bay has brought increased public attention to this topic. The NMS science team is assisting with monitoring and data interpretation, and is revising the science plan accordingly.

- Continue to participate in NMS steering committee, Nutrient Technical Workgroup, and planning subcommittee meetings, and provide funding for scientific studies.
- Continue to assist with preparation of a brief "State of the Science" document summarizing the scientific accomplishments of the NMS team for public use.
- Continue to engage with Nutrient Technical Team and BACWA's Nutrient Management Strategy technical consultant, Mike Connor, to provide review of recent work products and charge questions for the science team.

BACWA Nutrients Page: https://bacwa.org/nutrients/

NMS FY23 Program Plan (Revised Dec. 2022) https://docs.google.com/document/d/11IWIrDMpUw OBQ6L j-qj67sOLwI490Ik RWW431e9nuU

NMS Work Products https://sfbaynutrients.sfei.org/b ooks/reports-and-workproducts

SFEI Presentation on Science of 2022 Bloom https://docs.google.com/prese ntation/d/1R468fFPMfq1d1xY6 cHFU-uta9aMCynx5/

BACWA Nutrient FAQ https://bacwa.org/wpcontent/uploads/2023/01/BAC WA-Nutrient-Fact-Sheet.pdf

SF BAY NUTRIENT WATERSHED PERMIT

- The 1st Nutrient Watershed Permit was adopted in 2014, and required a regional study on Nutrient Treatment by Optimization and Upgrades, completed in 2018.
- The 2nd Nutrient Watershed Permit was adopted in 2019. It includes:
 - Continued individual POTW nutrient monitoring and reporting;
- Continued group annual reporting;
- Significantly increased funding for science:
- Regional assessment of the feasibility and cost for reducing nutrients through nature-based systems and recycled water;
- Establishing current performance for TIN, and "load targets" for nutrient loads based on 2014 to 2017 load data plus a 15% buffer for growth and variability
- Recognition of "early actors" who are planning projects that will substantially decrease TIN loads.
- Through the nutrient surcharge levied on permittees, BACWA funds compliance with the following provisions on behalf of its members:
- Group Annual Reporting
- Regional Studies on Nature-Based Systems and Recycled Water
- Support of scientific studies through the Regional Monitoring Program (RMP) with \$11M over the five-year permit term.

- Studies related to Recycled Water and Nature-Based Systems are underway, and will be completed by the due date of July 1, 2023.
- Each year by February 1, BACWA submits a Group Annual Report on behalf of its members. The report summarizes trends in nutrient concentrations and loading for each agency, and for all the agencies as a whole. The annual reporting period in the 2nd Watershed Permit is based on a water year (October 1 September 30th). The 2021 report showed a decline in TIN concentrations compared to the previous year.
- Agencies with plans to substantially reduce nutrients are recognized in the Fact Sheet of the 2nd watershed permit, and BACWA is continuing to track "early actor" nutrient reduction projects. BACWA has synthesized this information into a projection of Baywide nutrient loading.
- BACWA has been working with a consultant team to complete a statistical analysis of historical TIN loading. In July 2022, BACWA met with Regional Water Board staff to propose use of these statistically-based load estimates within the 3rd Watershed Permit. Regional Water Board staff have signaled that the 3rd Watershed Permit is likely to include nutrient load reduction requirements (see presentation at right). The magnitude, timing, and format of these reductions have yet to be determined.

 BACWA continues to convene a Nutrient Strategy Team (NST) to develop BACWA's key tenets for the 3rd Watershed Permit. The NST is actively engaging with the Regional Water Board to develop details related to load cap implementation in the 3rd Watershed Permit.

Next Steps for BACWA

- BACWA staff are meeting with the 18 largest wastewater treatment plants (representing 95% of the regional TIN load from POTWs) to identify projects that could reduce nutrient loads during the term of the 3rd Watershed Permit and beyond. BACWA will also host a roundtable discussion for agencies to share with one another.
- Review draft reports by HDR and SFEI for the Nutrient Removal by Recycled Water Evaluation and the Nature-Based Systems study. Individual agency reports have been drafted, and draft summary reports will be available later in the spring.
 Agency sign-off on the final reports will be required.
- Agencies will continue to report nutrient monitoring data both through CIWQS and directly to BACWA. The Group Annual Report for 2021-22 will be released on February 1st.

2nd Nutrient Watershed Permit:

https://www.waterboards.ca .gov/sanfranciscobay/board decisions/adopted orders/ 2019/R2-2019-0017.pdf

Special Studies of Recycled Water and Nature-Based Systems:

https://bacwa.org/documentcategory/2nd-watershedpermit-studies/

Optimization/Upgrade Study Information: https://bacwa.org/documentcategory/optimization-and-

category/optimization-andupgrade-studies/
BACWA Group Nutrient

Annual Reports: http://bacwa.org/documentcategory/nutrient-annualreports/

Presentations to SF Board of Supervisors Land Use and Transportation Committee (October 2022) https://sfgov.legistar.com/View.ashx?M=F&ID=11339273&GUID=863B565D-6662-419D-B519-87D5FBB4BAE3

CHLORINE RESIDUAL COMPLIANCE

- The Basin Plan chlorine residual effluent limit is 0.0 mg/L. Chlorine residual is the most frequent parameter for violations for Region 2 POTWs. Because there are 24 hourly reporting events each day, the "opportunities" for violations are enormous. However, the actual violation rates are infinitesimal (~0.001%).
- Agencies are overdosing their effluent with the dechlorination agent, sodium bisulfite, to prevent chlorine violations, a practice which costs more than \$1 million regionally each year.
- The Regional Water Board worked with BACWA to develop a Basin Plan Amendment modifying the effluent limit for chlorine residual.

- The Basin Plan Amendment includes:
- A 0.013 mg/L Water Quality Objective in marine and estuarine waters, which will be applied as a WQBEL in permits and calculated incorporating dilution. The WQBEL will be applied as a 1-hour average.
- A Minimum Level (ML), or Reporting Limit of 0.05 mg/L for online continuous monitoring system.
- The Basin Plan Amendment was adopted by the Regional Water Board in 2020, approved by the State Water Board and Office of Administrative Law in 2021, and is now awaiting final review by EPA.
- Sections of the Basin Plan Amendment related to removal of Oil & Grease effluent limits are in effect. This change is being implemented in reissued NPDES permits.
- In 2021, the Regional Water Board adopted a blanket permit amendment implementing the Basin Plan Amendment within each individual NPDES permit. The order will only become effective once the Basin Plan Amendment is approved by the EPA.
- In late 2022 and early 2023, EPA consulted with federal natural resource agencies to update the biological evaluation of potential chlorine toxicity to fish. Due to significant concerns about fish toxicity expressed by the resource agencies, the future of both EPA's chlorine water quality objective and the Basin Plan Amendment are unclear at this time.

 Engage with Regional Water Board staff to support eventual approval of the Basin Plan Amendment, and provide updates to BACWA members on new developments.

Next Steps for BACWA

- If the Basin Plan Amendment is approved, prepare for a short turnaround time for implementation of the new chlorine residual limits, as follows:
 - Ensure compliance with the new minimum required frequency of once every 5 65minutes.
 - Ensure the monitoring system complies with the new minimum level of 0.05 mg/L.
 - Members that plan to discharge detectable residual chlorine may need to adapt sampling and analysis procedures for other constituents for which residual chlorine could interfere, such as whole effluent toxicity and ammonia.
 - Use the highest one-hour arithmetic mean as the daily value reported into CIWQS.

Background and Status information about Basin Plan Amendment: https://www.waterboards.ca.go//sanfranciscobay/water_issue/programs/planningtmdls/amendments/chlorinebpa.html

Final Basin Plan
Amendment adopted by
Regional Water Board:
https://www.waterboards.ca.go
v/sanfranciscobay//water_issu
es/programs/planningtmdls/am
endments/chlorinebpa/2 Chlor
ine_Resolution_R2-20200031.pdf

Blanket Permit Amendment for Chlorine and Oil & Grease:

https://www.waterboards.ca.go v/sanfranciscobay/board_decis ions/adopted_orders/2021/R2-2021-0019.pdf

PESTICIDES

- Pesticides are regulated via FIFRA, and not the Clean Water Act.
 POTWs do not have the authority to regulate pesticide use in their service area, but may be responsible for pesticide impacts to their treatment processes or to surface water.
- Through BAPPG, BACWA aims to proactively support a scientific and regulatory advocacy program so that pesticides will not impact POTWs' primary functions of collecting and treating wastewater, recycling water, and managing biosolids, or impact receiving waters via the "down the drain" route.
- EPA reviews all registered pesticides at least once every 15 years. Each review allows opportunity for public comment.
- BACWA continues to fund consultant support to write comment letters advocating for the consideration of POTW and surface water issues by EPA and the California Department of Pesticide Registration (CalDPR). Funding for pesticide regulatory outreach in FY23 is \$60K.The pesticides regulatory team also supports the California Stormwater Quality Association (CASQA) on outreach work related to urban pesticide use.
- The Regional Water Board leverages BACWA's efforts to provide their own comment letters.
- With chronic toxicity limits likely in the near term, POTWs will be in compliance jeopardy if pesticides contribute to toxicity.
- Baywise.org has launched webpages on flea and tick control messaging to pet owners and veterinarians.
- Pet pesticides were the focus of BAPPG's public outreach campaign in Spring 2022.
- In January 2023, CalDPR released a Sustainable Pest Management Roadmap. The Roadmap identifies actions that would enhance understanding of pesticide use in urban areas and enhance outreach to urban pesticide users.

- Advocate for implementation of actions from the Sustainable Pesticide Management Roadmap, which will require additional resources to be directed to CalDPR.
- Continue to comment on EPA pesticide re-registrations and CalDPR actions.
- Work with veterinary associations on messaging with respect to flea and tick control alternatives.
- Continue to develop summaries of EPA actions on pesticides.
- Look for opportunities to work with CalDPR on pesticides research.
- Work with other regional associations, such as the CASQA to collaborate on funding pesticide regulatory outreach.

BACWA Pesticides Regulatory Update and Call to action:

Links/Resources

https://bacwa.org/wpcontent/uploads/2016/02/BAC WA-Pesticide-Regulatory-Update-2016-1.pdf

BACWA Pesticide Regulatory Support Page: https://bacwa.org/bappgpesticides/

Baywise flea and tick pages:

https://baywise.org/residential/ pets/keep-pets-free-of-fleasand-ticks/

https://baywise.org/residential/pets/

BACWA-CASQA Urban Pesticides Collaboration Fact Sheet:

https://bacwa.org/wpcontent/uploads/2022/08/CAS QA-BACWA-Factsheet-July2022.pdf

CalDPR Sustainable Pest Management Roadmap https://www.cdpr.ca.gov/docs/pressrls/2023/012623.htm

MERCURY AND PCBS

 The Mercury & PCBs Watershed Permit was reissued by the Regional Water Board in December 2022. The Watershed Permit is based on the TMDLs for each of these pollutants.

Background Highlights

- Aggregate mercury and PCBs loads have been well below waste load allocations through 2021, the last year for which data have been compiled.
- Method 1668C for measuring PCB congeners has not been promulgated by EPA. Data collected during the first permit term varied widely depending on which laboratory performed the analyses. **BACWA Laboratory Committee** developed an updated PCB Protocol to reduce variability between laboratories running Method 1668C, effective January 1, 2014. Data have been more consistent since the distribution of this document.
- In 2017, EPA adopted federal pretreatment program rules requiring dental offices to install dental amalgam separators. The rule is intended to reduce dental office discharge of mercury. The compliance date was July 14, 2020.

- The Mercury & PCBs Watershed Permit (both the 2017 and 2022 versions) require risk reduction program funding. For FY23, BACWA granted an extension to an ongoing contract worth \$12,500 to the California Indian Environmental Alliance to conduct risk reduction activities related to fish consumption.
- In January 2022, monitoring requirements for mercury were reduced for most dischargers by a blanket NPDES Permit amendment (Order R2-2021-0028) (see link at right). Revised monitoring frequencies are also reflected in the reissued permit.
- As part of the 2021 Triennial Review of the Basin Plan, the Regional Water Board has prioritized designation of three new beneficial uses: Tribal Tradition and Culture (CUL), Tribal Subsistence Fishing (T-SUB) and Subsistence Fishing (SUB). Water bodies designated these beneficial uses could also be assigned lower mercury objectives.
- The Mercury & PCBs Watershed Permit reissued in December 2022 is very similar to the 2017 Permit. Effluent limitations are unchanged. The only significant difference is a reduction in the monitoring frequency for PCB Congeners for some agencies.

 Some member agencies can modify effluent monitoring frequencies for PCB congeners after the reissued Permit's effective date of February 1, 2023.

Next Steps for BACWA

- In 2023, BACWA will solicit proposals to support risk reduction activities during the term of the reissued permit.
- Continue outreach to dentists BAPPG and BACWA's pretreatment committee. Per federal rules, all dental facilities were required to submit one-time compliance reports by October 2020.
- Schedule risk reduction presentations by the grantees to the Regional Water Board in 2023.
- Track potential Basin Plan Amendments resulting from the Triennial Review project related to new beneficial use designations. The new designations are not expected to impact the bay-wide mercury TMDL in the near term, but there could be localized or longer-term impacts.

2022 Mercury & PCBs Watershed Permit (Effective Feb. 1, 2023) https://www.waterboards.ca.go v/sanfranciscobay/board decis ions/adopted_orders/2022/R2-2022-0038.pdf

Risk Reduction Materials: https://bacwa.org/mercurypcbrisk-reduction-materials/

BACWA PCBs Protocol: https://bacwa.org/wpcontent/uploads/2014/02/PCBs -Sampling-Analysis-and-Reporting-Protocols-Dec13.pdf

One-Time Compliance Report for Dental Offices:

https://www.waterboards.ca.go v/water issues/programs/npde s/docs/drinkingwater/onetime compl iance_report_for_dental_office s.pdf

NPDES Permit Amendment for Monitoring and Reporting

https://www.waterboards.ca.go v/sanfranciscobay/board decis ions/adopted orders/2021/R2-2021-0028.pdf

STATE WATER BOARD TOXICITY PROVISIONS

- The State Water Board has been working since before 2012 to establish Toxicity Provisions in the SIP that would introduce uniform Whole Effluent Toxicity Requirements for the State
- During individual permit reissuances since 2015, the Regional Water Board has been performing RPAs for chronic toxicity and giving chronic toxicity limits to agencies with Reasonable Potential.
- Proposed Final Statewide Toxicity Provisions were released in October 2020, incorporating revisions to previous versions from 2018 to 2020. The Provisions establish:
 - Use of Test of Significant Toxicity (TST) as statistical method to determine toxicity replacing EC25/IC25 (with concerns it will lead to more false positive results):
 - Numeric limits for chronic toxicity for POTWs >5 MGD and with a pretreatment program; smaller POTWs would receive effluent targets and only receive limits if Reasonable Potential is established:
 - Regional Water Board discretion on whether to require RPAs for acute toxicity:
 - o For POTWs with Ceriodaphnia dubia as most sensitive species, numeric targets rather than limits until after completion of state-wide study on lab/ testing issues (Dec. 31, 2023).

• The State Water Board first adopted the Statewide Toxicity Provisions in December 2020. In October 2021, the State Water Board affirmed that the Statewide Toxicity Provisions were adopted as state policy for water quality control for all inland surface waters and estuaries.

Challenges and Recent Updates

- The Toxicity Provisions will go into effect following EPA approval, which is expected to occur in February 2023.
- Since 2016, agencies have had the option to skip sensitive species screening upon permit reissuance and pay the avoided funds to the RMP to be used for CECs studies. Under the Toxicity Provisions, agencies will be required by the provisions to do sensitive species screening once every 15 years.
- BACWA joined SCAP, CVCWA and NACWA in a lawsuit alleging EPA did not follow proper procedure in requiring use of the TST, which has not been officially promulgated. The lawsuit was dismissed. POTWs' only recourse is to challenge individual permits that include the procedure.
- The State Water Board is collaborating with stakeholders on a special study to improve the quality of Ceriodaphnia dubia testing. The first phase of this multi-laboratory study of toxicity testing has been completed, and a second intercalibration round of testing will be conducted in March 2023.

- Prepare for imminent approval of the Toxicity Provisions, which could be as soon as February 2023. Member agencies that have had permits reissued after August 2022 will automatically transition to new toxicity testing requirements in the month following EPA approval.
- Plan to conduct a species sensitivity screening to comply with the Toxicity Provisions, which require a study no more than 10 years old be used to determine a "Tier I" species for use in compliance monitoring.
- Review draft NPDES permits implementing the Toxicity Provisions. As of August 2022, NPDES permit language implementing the Toxicity Provisions is being added to draft individual NPDES permits. Regional Water Board staff developed this language with BACWA member input. The permit language only becomes effective after EPA approves the Toxicity Provisions.
- Share information on the special study on the Ceriodaphnia dubia test method with agencies who have that species in their permits.

SWRCB Toxicity Page:

http://www.swrcb.ca.gov/water issues/programs/state imple mentation policy/tx ass cntrl. shtml

Toxicity Provisions adopted December 2020:

https://www.waterboards.ca.go v/water issues/programs/state implementation policy/docs/p rovisions_final.pdf

Toxicity Workshop Presentations from 2017 **BACWA Workshop:** https://bacwa.org/bacwatoxicity-workshop-september-18-2017/

Regional Water Board presentation on implementation of Statewide Toxicity Provisions from December 2020: https://bacwa.org/wpcontent/uploads/2021/01/Slide s-from-RWQCB-Regarding-R2-Tox-Language-in-NPDES-Permits-2020-12-08.pdf

Ceriodaphnia Quality Assurance Study https://www.sccwrp.org/about/r esearch-areas/additionalresearch-areas/ceriodaphniatoxicity-testing-qualityassurance/

COMPOUNDS OF EMERGING CONCERN (CECS)

- Pharmaceuticals and other trace compounds of emerging concern (CECs) are ubiquitous in wastewater at low concentrations and have unknown effects on aquatic organisms.
- The State Water Board has formed a Pretreatment and CECs Unit.
- Region 2's CEC strategy focuses on monitoring/tracking concentrations of constituents with high occurrence and high potential toxicity. Much of what the State Water Board is considering for its monitoring program is already being implemented in Region 2 through the RMP.
- The Regional Water Board has stated that voluntary and representative participation in RMP CECs studies is key to avoiding regulatory mandates for CECs monitoring. These studies are informational and not for compliance purposes. BACWA developed a White Paper on representative participation to support facility selection for these studies.
- Bay dischargers are continuing to provide supplemental funding for RMP CECs studies through the NPDES Permit Amendment adopted in December 2021 by the Regional Water Board.
- The State Water Board has recently increased its focus on CECs. In November 2022, a State Water Board Science Advisory Panel released a report identifying risk-based and occurrence-based monitoring strategies in aquatic ecosystems. Similar approaches are already in use in the Bay Area by the RMP.

- Continue to participate in the RMP Emerging Contaminants Workgroup.
- Participate in RMP studies by collecting wastewater samples at member facilities. Studies in FY23 include ethoxylated surfactants in wastewater, in addition to the Regional PFAS Study and OPC-funded microplastic study (see below).
- Provide ongoing updates to White Paper for use by the RMP or others in selecting representative POTWs for participation in CEC studies.

RMP Emerging Contaminant Workgroup: http://www.sfei.org/rmp/ecwg#t ab-1-4

BACWA CECs White Paper:

https://bacwa.org/document/bacwa-cec-white-paper-updated-june-2020/

NPDES Permit Amendment for Monitoring and Reporting

https://www.waterboards.ca.go v/sanfranciscobay/board_decis ions/adopted_orders/2021/R2-2021-0028.pdf

State Water Board CECs webpage:

https://www.waterboards.ca.go v/water_issues/programs/cec/i ndex.html

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| MICROPLASTICS | | | |
| Microplastic pollution is a environmental threat with the potential to impact wastewater disposal and reuse, as well as biosolids end uses. Microplastics have been a focus of the RMP in recent years. BACWA has participated in the Workgroup and developed a POTW Fact Sheet. | In February 2022, the Ocean Protection Council (OPC) adopted a Statewide Microplastics Strategy that calls for increased water recycling, additional monitoring of wastewater, source control in wastewater, and additional scientific research. In 2021, the OPC funded a study investigating microplastic removal | Continue to participate in the RMP Microplastics Workgroup. Three BACWA member agencies are participating in the OPC-funded microplastic study. As of January 2023, sampling efforts are ongoing. Continue tracking State Water Board and Ocean Protection | BACWA Microplastics Fact Sheet: https://bacwa.org/wp- content/uploads/2019/09/BAC WA-Microplastics-flyer.pdf SFEI Microplastics project: https://www.sfei.org/projects/microplastics |
| One conclusion of the RMP work is that POTWs contribute much lower microplastic loads than stormwater. As a result, the RMP is focusing future microplastics sampling efforts | through wastewater treatment processes. The study is being carried out by SCCWRP. The study commenced in 2021 with a pilot study involving BACWA member agency | Council actions via the CASA Microplastics Workgroup. CASA is working with SCCWRP to provide additional funding for testing of new sample collection | Ocean Protection Council Microplastics Strategy: https://www.opc.ca.gov/webmaster/ftp/pdf/agendaitems/2022 0223/ltem 6 Exhibit A State |

and/or analysis methods.

analysis of influent, effluent, and

2023.

stormwater.

participation. Full-scale sampling and

biosolids is planned to be completed in

• Ongoing microplastics investigations by the RMP are focused on tire particles in

on stormwater pathways.

wide Microplastics Strategy.p

df

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

 Per- and polyfluoroalkyl substances (PFAS) are a group of human-made substances that are very resistant to heat, water, and oil. PFAS have been used in surface coating and protectant formulations. Common PFAScontaining products are non-stick cookware, cardboard/paper food packaging, water-resistant clothing. carpets, and fire-fighting foam.

Background Highlights

- · Perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) are two types of PFAS no longer manufactured in the US: however, other types of PFAS are still produced and used in the US.
- All PFAS are persistent in the environment, can accumulate within the human body, and have demonstrated toxicity at relatively low concentrations.
- · Potential regulatory efforts to address PFAS focus on drinking water in order to minimize human ingestion of these chemicals, although regulators have also expressed concern about uptake into food from biosolids.
- In July 2020, the SWRCB issued an investigative order for POTWs. At that time, BACWA obtained SWRCB approval to fund and conduct a Regional PFAS Study in lieu of the investigative order.
- In April 2021, the formation of an "EPA Council on PFAS" was announced.

- The EPA and State of California are developing drinking water standards for PFAS compounds.
 - o DDW has developed drinking water notification levels (NLs) and response levels for PFOA, PFOS, and Perfluorobutane Sulfonic Acid (PFBS), and has finalized a NL for Perfluorohexane Sulfonic Acid (PFHxS) as of October 2022. .
 - o In 2021, OEHHA proposed draft public health goals for PFOA (0.007 ng/L) and PFOS (1 ng/L) as the next step in establishing drinking water MCLs.
 - o In 2022. EPA released interim health advisories for PFOA (0.004 ng/L) and PFOS (0.02 ng/L) that are lower than current detection limits in wastewater.
- EPA is conducting pretreatment standards rulemaking for two types of industrial users: Metal Finishing, and Organic Chemicals, Plastics and Synthetic Fibers.
- EPA is developing a new analytical method for PFAS in complex matrices like wastewater. Draft Method 1633 is expected to be finalized later in 2023.
- In August 2022, EPA proposed a rule designating PFOA and PFOS as hazardous substances under CERCLA (the Superfund law). BACWA submitted a comment letter on the proposal (link at right).
- In late 2022, EPA issued permitting guidance for pretreatment programs and NPDES permits. It recommends use of Draft Method 1633.

 BACWA's Regional PFAS Study is being conducted by SFEI in two phases:

Next Steps for BACWA

- o In Phase 1, fourteen representative facilities collected samples in Q4 2020 for influent, effluent, RO concentrate, and biosolids. BACWA prepared a Fact Sheet regarding Phase 1 results (see link at right).
- o Sample collection for Phase 2 of the PFAS Regional Study was completed in mid-2022 and included sampling of influent, effluent, and biosolids: residential sewersheds. commercial and industrial users: hauled organic waste used as digester feed; and groundwater. Phase 2 study results will be available in spring 2023.
- BACWA's Phase 2 study results could support new legislative efforts in 2023. Legislation requiring reporting of PFAS in products (AB 2247) did not pass in 2022 due to concerns about fiscal impact. PFAS bans in cosmetics and textiles were passed in 2022.
- BACWA will continue tracking developments at the federal. state and regional level, in particular to understand the impact of the CERCLA designation on biosolids reporting.

BACWA PFAS Documents: https://bacwa.org/pfas-links/

SWRCB PFAS Resources: https://www.waterboards.ca.go v/pfas/

OEHHA Drinking Water: https://oehha.ca.gov/water

EPA PFAS Resources https://www.epa.gov/pfas

EPA PFAS Strategic Roadmap

https://www.epa.gov/pfas/pfasstrategic-roadmap-epascommitments-action-2021-2024

2022 PFAS Legislation Outcomes for CA: https://www.cwea.org/news/pfa s-legislation-we-have-seen-in-2022/

BACWA Comment Letter on CERCLA Designation: https://bacwa.org/wpcontent/uploads/2022/11/BAC

WA-PFAS-CERCLA-Ltr-2022-11-07.pdf

EPA NPDES Permitting Guidance (Dec. 2022) https://www.epa.gov/system/files /documents/2022-12/NPDES PFAS State%20Me mo December 2022.pdf

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|---|--|---|--|--|--|
| SSS WDR REISSUANCE | | | | | |
| In 2021, the State Water Board began the process of reissuing the statewide Sanitary Sewer System General Order (SSS-WDR) by issuing an informal staff draft. A draft for public comment was released in January 2022, and BACWA submitted formal comments in April 2022. State Water Board staff participated in multiple rounds of stakeholder engagement with BACWA, CASA, CVCWA, SCAP, and nongovernmental organizations. The State Water Board's goals for the update were: Updating the 2006 Order Clarifying compliance expectations and enhancing enforceability Addressing system resiliency, including climate change impacts Identifying valuable data and eliminating non-valuable reporting requirements | The SSS-WDR was reissued in December 2022. The reissued order replaces the 2006 Order and the 2013 Monitoring and Reporting Program. BACWA and partner organizations were successful in working with the State Water Board to make many favorable modifications to the draft prior to its final adoption. The reissued order effective date is June 5, 2023. The reissued SSS-WDR contains numerous new and modified requirements, such as: A prohibition on discharges to groundwater; Reduced spill reporting requirements for small spills (spills from laterals or <50 gallons); New spill monitoring requirements such as photo documentation and faster water quality sampling; New requirements for preparation of Sewer System Management Plans (SSMPs), including a focus on system resiliency, prioritizing corrective actions, and coordinating with stormwater agencies; Modified annual reporting requirements; New mapping requirements; and Modified timelines for preparation of audits and SSMPs. The State Water Board has prepared an online tool | Members that are currently enrolled in the SSS-WDR will need to meet several compliance deadlines by June 5, 2023, such as: Re-enrolling between April 4 and June 5, 2023 Uploading existing SSMPs to CIWQS Updating Spill Emergency Response Plans Work with the Collection System committee and CASA to identify and fulfill member needs for guidance and templates materials, such as guidance for Sewer System Management Plans Continue to coordinate with CASA and CWEA on training opportunities for members as they transition to enrollment under the new SSS-WDR. | State Water Board SSS-WDR page: https://www.waterboards.ca.go v/water_issues/programs/sso/ Reissued SSS-WDR (General Order 2022-0103- DWQ), Effective June 5, 2023 https://www.waterboards.ca.go v/board_decisions/adopted_or ders/water_quality/2022/wqo 2022-0103-dwq.pdf Clean Water Summit Partners Webinar on Reissued SSS-WDR (January 2023) https://casaweb.org/resources/ speaker-presentations/ SSMP and Audit Due Dates Lookup Tool from State Water Board https://www.waterboards.ca.go v/water_issues/programs/sso/l ookup/ | | |

Board has prepared an online tool to assist agencies in determining compliance dates (at right).

ELAP UPDATE

- In May 2020, the State Water Board adopted new comprehensive regulations for the Environmental Laboratory Accreditation Program.
- · Adoption of the new regulations was required by AB 1438, legislation that became effective in 2018.
- The new ELAP regulations will replace the current state-specific accreditation standards with a national laboratory standard established by The NELAC Institute (TNI).
- The new ELAP regulations became effective as of January 1, 2021. Compliance with TNI standards is required beginning January 1, 2024.
- Adoption of TNI standards poses a challenge since there are more than 1.000 individual requirements. Setup costs may include:
 - Hiring and/or training staff;
- o Hiring consultants to set up the TNI documentation framework;
- Purchasing Laboratory Information Management System (LIMS) software:
- Purchasing documents and training material from TNI, etc.
- The new standards will be a particular burden on small laboratories, which may choose to close if they cannot economically meet the new standards.
- ELAP's "Roadmap to ELAP Accreditation" Program is the outreach and training component of the new regulations. ELAP staff have presented to the Lab Committee in June 2020, February 2021, April 2021, and June 2022. ELAP has contracted with A2LA Workplace Training to provide training sessions.
- The BACWA Lab Committee began providing monthly TNI training sessions beginning in July 2021. BACWA has provided funding for the TNI training sessions to continue through FY23.

- Offer monthly training sessions to BACWA members. The free virtual training sessions are open to BACWA members holding a valid copy of the 2016 TNI Standard, and are occurring on the 3rd Tuesday of each month. Training is provided by Diane Lawver of Quality Assurance Solutions, LLC, and other subject matter experts. BACWA's TNI training sessions are recorded, and a link is available upon request.
- Communicate with ELAP staff on behalf of BACWA's Laboratory Committee as new guidance and training materials are developed for TNI implementation and methods updates.
- Continue to work through **BACWA's Laboratory Committee** to support members as they navigate laboratory accreditation under the new TNI standards.
- Publicize training opportunities offered by consultants, ELAP, and others.
- Provide a forum for BACWA laboratories to share experiences and lessons learned from various approaches to TNI implementation.

State Water Board's 'Roadmap to ELAP Accreditation' page:

https://www.waterboards.ca.go v/drinking water/certlic/labs/ro admap to elap accreditation. html

Roadmap to Accreditation Presentation to BACWA Lab Committee:

https://bacwa.org/wpcontent/uploads/2020/06/Califo rnia-ELAP-Regulations-BACWA 06092020.pdf

State Water Board's ELAP regulations page:

http://www.waterboards.ca.gov /drinking water/certlic/labs/ela p_regulations.shtml

Monthly Training Session flver:

https://bacwa.org/wpcontent/uploads/2021/07/BAC WA-Lab-TNI-Training-Series-Flyer.pdf

ELAP Timeline Guidance Tool:

https://www.waterboards.ca.go v/drinking water/certlic/labs/do cs/2022/elap-scheduler-1-1.xlsx

PHASE-OUT OF BIOSOLIDS AS ALTERNATIVE DAILY COVER

- Regulatory drivers are indicating that biosolids used as alternative daily cover (ADC) or disposed in landfills will be phased out:
 - AB 341 set a goal to recycle 75% of solid waste by 2020 and CalRecycle's plan to achieve that goal called for a marked, but unquantified, reduction of organics to landfills.
 - SB 1383, adopted in September 2016 requires organics diversion:
 -50% by 2020 (relative to 2014)
 -75% by 2025 (relative to 2014)
- Regulations implementing SB 1383
 went into effect on January 1,
 2022, so the State can begin
 enforcement on jurisdictions.
 Jurisdictions can begin local
 enforcement January 1, 2024, and
 compliance is required by January
 1, 2025.
- While the regulations implementing SB 1383 do not explicitly forbid biosolids disposal/reuse in landfills, it is assumed that since biosolids are a relatively "clean" waste stream that can be easily diverted, landfills will stop accepting biosolids.
- The Bay Area Biosolids Coalition (BABC) was formed to find sustainable, cost-effective, allweather options for biosolids management. BABC is a BACWA Project of Special Benefit.

- BACWA's 2021 Biosolids Trends Survey Report compiles member agency activities in 2018-2020, as well as survey responses regarding SB 1383 implementation.
- Requirements for SB 1383 implementation include:
 - Diverted biosolids must be anaerobically digested and/or composted to qualify as landfill reduction.
 - In 2022, CalRecycle began accepting applications to consider whether other specific treatment technologies can qualify as landfill reduction (per Article 2 of SB 1383).
- Local ordinances restricting land application are disallowed.
- Jurisdictions that divert organic waste must also procure the end products of diversion, such as biogas, biomethane, and compost (but not biosolids). Per legislation signed in 2022 (AB 1985), procurement rules are being phased in over three years (2023 to 2025) and there are interim rules regarding procurement of biogas from POTWs.
- Currently, some County ordinances restrict the beneficial use of biosolids. CalRecycle considers bans on land application to be unenforceable, and CalRecycle has agreed to approach several counties with restrictive ordinances to conduct outreach and assess compliance.
- CalRecycle continues to make new training materials available for jurisdictions regarding 1383 compliance.

The Biosolids in the Baylands
 white paper was released in
 2022 by the San Francisco Bay
 Joint Venture. The white paper
 identifies data gaps that need to
 be filled. Studies funded by
 BACWA and BABC (e.g., PFAS)
 and other current studies will be
 considered to help fill remaining
 data gaps before identifying new
 monitoring requirements at land
 applications sites.

Next Steps for BACWA

- Continue to engage with Regional Water Board regarding supplemental monitoring requirements for biosolids land application sites in the Baylands.
- Actively work through CASA with California Air Resource Board, CalRecycle, State Water Board, and California Department of Food and Agriculture to develop sustainable long-term options for biosolids beneficial use.
- Meet with BAAQMD regularly in 2023 to discuss alignment of state and local regulations.

BACWA 2021 Biosolids Trends Survey Report: https://bacwa.org/wpcontent/uploads/2021/12/BAC WA-2021-Biosolids-Trends-

BABC website:

Survey-Report.pdf

http://www.bayareabiosolids.com/

CASA White Paper on SB 1383 Implementation: https://bacwa.org/document/summary-of-sb-1383-and-its-implementation-casa-2020/

CalRecycle website for California Short-Lived Climate Pollutant Reduction Strategy

https://www.calrecycle.ca.gov/organics/slcp

CalRecycle Procurement FAQ (Updated per AB 1985) https://calrecycle.ca.gov/organics/slcp/faq/recycledproducts/

Biosolids in the Baylands White Paper

https://bacwa.org/wpcontent/uploads/2022/07/Bioso lids-in-the-Baylands-White-Paper-March-2022.pdf

CLIMATE CHANGE MITIGATION

- CARB's Climate Change Scoping Plan Update lays out the approach for the State to meet its greenhouse gas (GHG) emissions reduction targets through 2030. The latest Scoping Plan was updated in 2022 targeting carbon neutrality by 2045, including policies addressing:
 - Short-lived climate pollutants
 - Carbon sequestration on Natural and Working Lands
 - Largest emitters (transportation, electricity, and industrial sectors)
- SB 1383 (Short-Lived Climate Pollutant Reduction) calls for:
 - o 40% methane reduction by 2030
 - 75% diversion of organic waste from landfills by 2025
 - Policy / regulatory development encouraging production/use of biogas
- BAAQMD developed a Clean Air Plan requiring GHG emissions supporting CARB's 2050 target (80% below 1990 levels).
- BAAQMD proposed the development of Regulation 13 (climate pollutants) targeting methane and nitrous oxide reductions related to organics diversion and management, but that effort is now on pause and lower priority than air toxics regulations.
- CARB states POTWs are part of the solution for reducing fugitive methane, and encourages diversion of organics to POTWs to use available digester capacity and produce biogas.

- CARB is pursuing rapid fleet conversion to zero-emission vehicles (ZEVs), including medium and heavy-duty vehicles, through the Advanced Clean Fleet rule. The proposed regulations will allow organizations to opt into one of two programs:
 - Public Fleets: With exceptions, requiring 50% of vehicles added to be ZEV by 2024, and 100% by 2027.
 - High Priority Fleet (Group 3): With exceptions, requiring 10% of vehicles added to be ZEV by 2030 and 100% by 2042.
- Complete conversion will be difficult for heavy-duty specialty trucks, and will remove a potential market for biogas.
 CASA is engaging to request continued allowance of biogas as a sustainable transportation fuel.
- In addition to pushing for ZEVs, CARB is proposing changes to the Low Carbon Fuel Standard that reflect increasing emphasis on hydrogen as a transportation fuel. Conversion of biogas into hydrogen is currently in research & development stage.
- Many POTWs are exploring energy generation, but BAAQMD TAC regulations could make such programs more difficult to implement. Direct injection of biogas to PG&E's pipelines or use as a transportation fuel may be more efficient.
- As of late 2022, EPA is finalizing a proposal for apportionment of renewable fuel credits (RINs) for food waste-based and sludge-based biogas.

- The Advanced Clean Fleet rule is expected to be adopted in April 2023. BACWA is supporting CASA's enhanced advocacy to CARB to preserve existing pathways that allow biogas to be used for fueling vehicles. The outreach is required so that biogas produced at treatment plants continues to have a permissible and economical end use, and so utilities have reliable power for heavy-duty vehicles. CASA and BACWA members are also providing public comments at CARB's public workshops.
- Look for ways to inform BAAQMD on opportunities and challenges for climate change mitigation by Bay Area POTWs, including education about anaerobic digesters and POTW operations.
- Work with PG&E and BAAQMD to explore options for POTWs to inject biogas into PG&E pipelines. In February 2022, the CPUC approved a mandatory biomethane procurement program for CA's four large gas IOUs (including PG&E) under SB 1440. CASA has been discussing the barriers to pipeline injection with CPUC and CalOSHA staff.

Climate Change Scoping Plan, including 2022 Update:

https://ww2.arb.ca.gov/ourwork/programs/ab-32-climatechange-scoping-plan

CARB Low Carbon Fuel Standard:

https://ww2.arb.ca.gov/ourwork/programs/low-carbonfuel-standard

CARB Advanced Clean Fleet Rule:

https://ww2.arb.ca.gov/ourwork/programs/advancedclean-fleets

SB 1383:

https://www.calrecycle.ca.g ov/organics/slcp

BAAQMD Clean Air Plan: http://www.baaqmd.gov/plans-

and-climate/air-qualityplans/current-plans

BAAQMD Regulation 13 http://www.baaqmd.gov/rulesandcompliance/rules/regulation-13-climate-pollutants

EPA Renewable Fuel Standards

https://www.epa.gov/renewabl e-fuel-standardprogram/proposed-renewablefuel-standards-2023-2024-and-2025

CLIMATE CHANGE ADAPTATION

- Climate change and water resilience are a strategic priority of both the State Water Board and Regional Water Board.
- In April 2019, Governor Newsom signed Executive Order N-10-19 directing State Agencies to recommend a suite of priorities and actions to build a climate-resilient water system and ensure healthy waterways through the 21st century.
- Bay Area coordination occurs through Bay Adapt, the Bay Area Climate Adaptation Network (BayCAN), and other venues.
 BACWA has signed a letter of support for the Bay Adapt Joint Platform.
- In April 2022, the State released a Climate Adaptation Strategy, including an updated climate change assessment for the Bay Area region.
- The California Coastal Commission's November 2021 Sea Level Rise Planning Guidance recommends that agencies "understand and plan" for 2.7 feet of sea level rise by 2050.
- The Regional Water Board is modifying the Basin Plan to address climate change and wetland policy. The changes will occur through multiple Basin Plan amendments.

- Despite previous announcements, as of 2023 the State Water Board no longer has plans to conduct a survey of permitted facilities regarding climate change vulnerability assessments adaptation measures, and is looking to Regional Water Boards to be responsible for this effort.
- In 2023, the Bay Conservation and Development Commission (BCDC) plans to develop "Regional Shoreline Adaptation Guidance" and standards for the Bay Area.
- In 2022, the Regional Water Board adopted a Climate Change Basin Plan amendment addressing dredge and fill procedures near the region's shorelines, especially for climate adaptation projects.
- Separately from the Basin Plan amendment, the NDPES division has released information regarding NPDES permitting of nature-based solutions.
- Shallow groundwater response to Sea Level Rise is a concern in low-lying Bay Area communities. Information about current and future depth-togroundwater maps is summarized in a January 2023 report now available from Pathways Climate Institute and SFEI.

- Follow up with members regarding sea level rise planning, as discussed at a member agency roundtable in August 2022. Prepare for engagement with the Regional Water Board and on expectations for sea level rise planning
- Work with members to identify a suitable way to track sea level rise adaptation plans, per the request of Regional Water Board staff.
- Engage with BCDC during the agency's development of Regional Shoreline Adaptation Plan guidance, which will likely impact most BACWA member agencies. BACWA is participating in an advisory group for the Regional Shoreline Adaptation Plan.
- Continue to work with Regional Water Board and other resource agencies to look for regulatory solutions to encourage wetlands projects for shoreline resiliency.

California Coastal
Commission's Critical
Infrastructure at Risk
https://documents.coastal.ca.g
ov/assets/slr/SLR%20Guidanc
e_Critical%20Infrastructure_12
.6.2021.pdf

OPC Sea Level Rise Action
Plan – August 2022
https://www.opc.ca.gov/webma
ster/_media_library/2022/08/S
LR-Action-Plan-2022-508.pdf

Climate Change Basin Plan Amendment

https://www.waterboards.ca.go v/sanfranciscobay/board_info/ agendas/2022/July/7 ssr.pdf

California Climate
Adaptation Strategy
https://climateresilience.ca.gov/

Bay Adapt Joint Platform https://www.bayadapt.org/

NPDES Permitting for Nature-Based Solutions https://bacwa.org/wpcontent/uploads/2022/08/NPD ES-Permitting-for-Nature-Based-Solutions-5.pdf

2023 Report on Shallow Groundwater Response https://www.sfei.org/projects/s hallow-groundwater-responsesea-level-rise Regulation 11, Rule 18 (Rule 11-18), adopted in 2017, is BAAQMD's effort to protect public health from toxic air pollution from existing facilities, including POTWs.

Background Highlights

- Per the Rule, BAAQMD will conduct site-specific Health Risk Screening Analyses (HRSAs) and determine each facility's prioritization score (PS). BAAQMD will conduct Health Risk Assessments (HRAs) for all facilities with a cancer PS>10 or non-cancer PS>1.0. After verifying the model inputs, if the facility still has PS above that threshold, that facility would need to develop and implement a Risk Reduction Plan that may include employing Best Available Retrofit Control Technology for Toxics (TBARCT).
- AB 617 (Community Air Protection Program) - requires CARB to harmonize community air monitoring, reporting, & local emissions reduction programs for air toxics and GHGs). POTWs within communities already impacted by air pollution may have to accelerate implementation of risk reduction measures.
- AB 2588 (Air Toxics "Hot Spots" Program) - Establishes a statewide program for the inventory of air toxics emissions from individual facilities, as well as requirements for risk assessment and public notification of potential health risks. 2020 updates expanded compound list from >500 to >1.000.

- BACWA developed a White Paper on BAAQMD Rule 11-18 to describe its potential impacts on the POTW community.
- In response to a request by BAAQMD, the AIR Committee delivered a letter report summarizing specific challenges that POTWs would face in complying with the rule due to budgeting and planning constraints related to being public agencies.
- In response, BAAQMD moved all POTWs to Phase 2 to give sufficient time to update the model's inputs, and plan for emissions reduction or TBARCT, as needed.
- AIR Committee gathered data on proximity factors from each facility and submitted to BAAQMD for updating prioritization scores, which will be use in HRA development.
- In the Final Statement of Reasons for rulemaking on AB 617 and AB 2588. CARB provided the wastewater sector time to develop a short-list of relevant compounds and perform a pooled emissions estimating effort to update outdated default emission factors (through 2028).
- In December 2021, BAAQMD amended Rule 2-5 to reduce allowable levels of toxic air contaminants in new source permitting. In March 2022, BAAQMD and BACWA convened a working group to address concerns related to toxic air contaminants and rule-making, which is meeting quarterly.

 Continue participating in the BAAQMD working group to discuss toxic air contaminants, rule development, and related issues. BACWA is coordinating with BAAQMD about implementation of the two-step process and its timing relative to BAAQMD Rule 11-18 and 2-5.

Next Steps for BACWA

- · Report "business as usual" for air toxics through 2028 (for year 2027). If BAAQMD requests additional monitoring of air toxics, member agencies should refer to the one-page handout on this topic prepared by CASA. The wastewater sector has until 2028 to perform a statewide "two-step process" in collaboration with CARB and air districts to determine a shortlist of compounds relevant to the wastewater sector to report.
- Continue to Participate in CASA Subgroup meetings to plan the "two-step process" study.
- For budgeting planning purposes, BACWA members with permitted capacity > 5 MGD should expect the study to cost approximately \$2,000 per MGD of permitted average dry weather flow. Study costs will be spread over FY24 to F27.

BAAQMD Rule 11-18 page: https://www.baagmd.gov/rules-

compliance/rules/regulation-11-rule-18-reduction-of-riskfrom-air-toxic-emissions-atexisting-facilities

Rule 11-18 Process Flowchart: https://bacwa.org/document/ba agmd-11-18-processflowchart-08-17-17/

CARB page on AB 617 and AB 2588:

https://ww2.arb.ca.gov/ourwork/programs/criteria-andtoxics-reporting

Final Statement of Reasons https://ww3.arb.ca.gov/board/1 5day/ctr/fsor.pdf

CASA One-Page Handout on Air Toxics Reporting (March 2022)

https://bacwa.org/wpcontent/uploads/2022/03/CTR-EICG CASAOnePageIssue-Approach March2022.pdf

BAAQMD Rule 2-5

https://www.baaqmd.gov/rulesand-compliance/rules/reg-2permits?rule_version=2021%2 **OAmendments**

RECYCLED WATER

- Approximately 10 percent of the municipal wastewater of Region 2 POTWs is currently recycled. Expansion of recycled water projects is a goal of many BACWA members, but implementation is slowed by high costs, regulatory uncertainty, and administrative requirements.
- As of 2018, the State Water Board has adopted uniform water recycling criteria for two types of Indirect Potable Reuse: surface water augmentation and groundwater augmentation.
- As of 2020, virtually all recycled water in Region 2 was produced at centralized facilities using municipal wastewater, and was treated to meet standards for non-potable reuse.
- The State Water Board is developing regulations for Direct Potable Reuse. Regulations for raw water augmentation must be adopted by December 31, 2023. The • The State Water Board is launching a State Water Board is pursuing a regulatory path that also includes treated water augmentation. The State Water Board will issue draft regulations for Direct Potable Reuse in early 2023.

- Beginning in 2020, all agencies have been required to report monthly wastewater and recycled water volumes into the State's Geotracker database. The 2023 survey includes new questions about future plans for increased recycled water production. Response are due April 30.
- The State Water Board is currently developing standards for onsite treatment and reuse of non-potable water in multi-family, mixed use, and commercial buildings. Draft regulatory concepts for onsite non-potable reuse were released in August 2022. The State Water Board is expected to begin rulemaking for onsite non-potable recycled water by late spring and complete the regulations by the end of 2023.
- BACWA is currently completing a Regional Evaluation of Potential Nutrient Discharge Reduction by Water Recycling, as required by the 2nd Nutrient Watershed Permit.
- "Strike Team" to assess how California will meet new recycled water goals listed in California's Water Supply Strategy (August 2022). The new goals call for 800,000 acre-feet per year of recycled water by 2030 and 1.8 million acre-feet per year by 2040. The Strike Team will also document challenges to meeting these goals, including but not limited to funding.

- This spring, BACWA members should plan to sign off on individual facility reports and review the draft overall report for the Regional Evaluation of **Potential Nutrient Discharge** Reduction. The consultant team has completed most individual reports, and will produce the overall draft report by mid-April 2023. The overall report, including individual facility reports, must be submitted by July 1, 2023.
- Review draft regulations for Direct Potable Reuse and Onsite Non-potable Reuse and work through Recycled Water committee to develop comments, as needed.
- Track California legislation with potential impacts on recycled water funding, mandates, or regulations.

Water Boards Recycled Water Policy and Regulations https://www.waterboards.ca.go v/water issues/programs/recyc led water/

Direct Potable Reuse framework documents https://www.waterboards.ca.go v/drinking_water/certlic/drinkin gwater/direct potable reuse.ht ml

Volumetric Annual Reporting Data: https://www.waterboards.ca.go v/water issues/programs/recyc led water/volumetric annual r eporting.html

Special Studies of Recycled Water and Nature-Based Systems:

https://bacwa.org/documentcategory/2nd-watershedpermit-studies/

California's Water Supply Strategy (August 2022) https://resources.ca.gov/-/media/CNRA-Website/Files/Initiatives/Water-Resilience/CA-Water-Supply-Strategy.pdf

ACRONYMS

MGD

ADC Alternate Daily Cover PCB Polychlorinated Biphenyl BAAQMD Bay Area Air Quality Management District **PFAS** Per- and Polyfluoroalkyl Substances Best Available Control Technology **BACT** PFBS Perfluorobutane Sulfonic Acid Perfluorohexane Sulfonic Acid BCDC Bay Conservation and Development Commission **PFHxS** BTU/SCF **PFOA** British thermal units per standard cubic foot Perfluorooctanoic Acid **CaIDPR** California Department of Pesticide Registration **PFOS** Perfluorooctane Sulfonic Acid

CARB California Air Resources Board POTW Publicly Owned Treatment Works

CASA California Association of Sanitation Agencies PS Prioritization Score

CAP Criteria Air Pollutant RMP Regional Monitoring Program
CEC Compound of Emerging Concern RPA Reasonable Potential Analysis

CIWQS California Integrated Water Quality System SCAP Southern California Alliance of POTWs

CVCWA Central Valley Clean Water Agencies SF Bay San Francisco Bay

CWEA California Water Environment Association SFEI San Francisco Estuary Institute
DDW Division of Drinking Water, State Water Resources Control Board SSMP Sewer System Management Plan

EC25/IC25 25% Effect Concentration/25% Inhibition Concentration TAC **Toxic Air Contaminant ELAP** Environmental Laboratory Accreditation Program **TMDL** Total Maximum Daily Load **ELTAC** TIN **Environmental Laboratory Technical Advisory Committee** Total Inorganic Nitrogen **EPA** TNI The NELAC Institute United States Environmental Protection Agency

FIFRA Federal Insecticide. Fungicide, and Rodenticide Act TST Test of Significant Toxicity

FY Fiscal Year WQBEL Water Quality Based Effluent Limitation

GHG Greenhouse Gas WQO Water Quality Objective HRSA Health Risk Screening Analyses ZEV Zero-Emission Vehicle

HRA Health Risk Assessment

MCL Minimum Contaminant Level (Drinking Water)

NACWA National Association of Clean Water Agencies

NELAC National Environmental Laboratory Accreditation Conference

NMS Nutrient Management Strategy

Million Gallons per Day

OEHHA Office of Environmental Health Hazard Assessment

OPC Ocean Protection Council