

KEY REGULATORY ISSUE SUMMARY Updated January 25, 2017

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Action items for member agencies are in bold

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| JTRIENTS IN SAN FRANCISCO BAY | - SCIENCE | | ' |
| SF Bay has historically been resilient to nutrient impacts because of tidal mixing, clam grazing, and high turbidity. However, turbidity is decreasing due to capture of sediment by upstream dams, and clam populations are on the decline. There is concern that SF Bay may lose its resiliency in the future. Because of the complexity of the science behind nutrient impacts in the SF Bay, stakeholders in the region are participating in a steering committee to prioritize scientific studies and ensure that all science to be used for policy decisions is conducted under one umbrella. The watershed permit specifies \$880K/yr of funding from POTWs to the RMP, which BACWA has provided for FY17. | For FY17, individual agencies have provided additional funding for studies targeting their specific subembayment. Agencies are conducting effluent monitoring under the watershed permit. Under contract with the Regional Water Board, SCCWRP produced a report entitled "Scientific Basis to Assess the Effects of Nutrients on San Francisco Bay Beneficial Uses" (Scientific Basis). BACWA engaged a consultant to provide a third-party review of the report and its Appendices. | Continue to participate in steering committee and planning subcommittee, and provide funding for scientific studies. Participate in the Nutrient Technical Workgroup, which is a venue to provide technical input to the process, and is open to the public, as well as the Stakeholder Advisory Group. Consider increased funding for the Science Plan. | BACWA "Other Useful Nutrient Documents" Page: http://bacwa.org/nutrienother-useful-nutrient-documents/ (includes Scientific Basis documents and third-party review). SFEI Nutrient Science Plan Documents: http://sfbaynutrients.sferg/books/reports-and-work-products |

recycled water survey.

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| SELENIUM – EPA CRITERIA AND SF | SELENIUM – EPA CRITERIA AND SF BAY TMDLs | | | |
| On July 15, the EPA published its proposed selenium criteria in the Federal Register. The rule would reduce the selenium water quality criterion for the waters of San Francisco Bay and Delta from 5 ppb to 0.2 ppb. It also proposes fish and clam tissue criteria. Selenium discharges from North Bay POTWs are governed by the 2015 North Bay Selenium TMDL, which was approved by the EPA in August 2016, but POTWs in the South Bay could be impacted by the new criteria. | Most San Francisco Bay Area POTWs would not be able to meet EPA's proposed water column criterion without dilution credit. The Lower South Bay Selenium Fact Sheet, developed by the City of Palo Alto, shows how measured selenium concentrations in the water column, POTW effluent, as well as fish and clam tissue, compare to EPA's proposed criteria. Both BACWA and the Lower South Bay dischargers submitted comment letters to EPA. The Bay Delta Conservation Plan's (BDCP) EIR acknowledged that the Delta tunnels could increase selenium concentrations in the San Francisco Bay. It then put the burden on the North Bay TMDL process to mitigate these increased concentrations. BACWA provided comments stating that this was not an acceptable strategy. | Respond to EPA when they update the draft criteria. Track and comment on initiatives by outside entities such as the BDCP whose activities could impact selenium in the San Francisco Bay. | Federal Register notice: https://www.regulations.g ov/docket?D=EPA-HQ- OW-2015-0392 Lower South Bay Selenium Fact Sheet: http://bacwa.org/wp- content/uploads/2016/09/ FINAL-LSB-Selenium- Factsheet AUG2016- 1.pdf BACWA Comment letter: https://bacwa.org/wp- content/uploads/2016/11/ BACWA-EPA-Selenium- Criteria-Comment-Letter- sent-10-28-16.pdf Regional Water Board North Bay Selenium TMDL: http://www.waterboards.c a.gov/sanfranciscobay/bo ard info/agendas/2015/N ovember/6 final to.pdf BDCP Documents:: http://baydeltaconservatio nplan.com/2015PublicRe view.aspx | |

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| MICROPLASTICS | | | |
| Microplastics are gaining attention worldwide as a contaminant of emerging concern. SFEI presented a poster at the September 2015 State of the Estuary Conference showing results of a preliminary survey of microplastics in Bay Area wastewater effluent and surface waters. Several media outlets picked up the story, raising the level of public attention to the issue. Recent State and Federal legislation phase out microbeads in personal care products, but do not address other sources of microplastics, such as pellets and fibers. | Bay Area POTWs with filtration have similar levels of microplastics in their effluent as facilities without filtration, according to SFEI's study. Bay Area POTW effluent and surface waters had much higher concentrations of microplastics than in other watersheds in the country. However, it is not clear that the same sampling and analytical methods were used as in studies in other regions, so results may not be comparable. Representatives from BACWA member agencies formed a workgroup through the BACWA Laboratory Committee to develop an analytical protocol to measure microplastics. They determined that via the method used in the SFEI study, not all the particles counted in effluent were plastic. | Coordinate with SFEI through the RMP Microplastics Strategy to look for opportunities to better understand POTW contributions to microplastics pollution. | 2015 SFEI Poster: http://www.sfei.org/docum ents/microplastic- contamination-san- francisco-bay RMP Microplastics Fact Sheet: http://www.sfei.org/sites/d efault/files/biblio_files/RM P%20Sutton%20FactSht %20Microplastics%20081 116web.pdf |

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| MERCURY/PCB WATERSHED PERM | IT | | |
| Mercury/PCB Watershed Permit adopted on 12/12/12 with 1/1/13 effective date. The Watershed Permit is based on the TMDLs for each of these pollutants. Aggregate PCB and mercury loads have been well below waste load allocations through 2015. Data from 2016 have not yet been analyzed. 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. | The permit requires continued risk reduction program funding and annual reporting of effort (BACWA submits letter). In 2015, BACWA issued an RFP for community-based organizations to conduct risk reduction work. Two \$25,000 grants were awarded to APA Family Support Services and the California Indian Environmental Alliance. BACWA held a joint progress meeting with these two entities and the RWB on October 25, 2016. 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. The State Water Board is proposing three new beneficial uses, Tribal Tradition Cultural, Tribal Subsistence Fishing, and Subsistence Fishing, that could result in extremely low WQBELs for mercury if they are designated in the SF Bay. These would impact POTWs when the mercury/PCB TMDL is reopened. | Complete risk reduction activities in 2017. Begin permit reissuance discussions with members and Regional Water Board in 2017. Comment on the State Water Board's proposed new beneficial uses by February 17. | 2013 Mercury/PCB Watershed Permit: http://www.waterboards.c a.gov/sanfranciscobay/bo ard_decisions/adopted_or ders/2012/R2-2012- 0096.pdf Risk Reduction Materials: https://bacwa.org/mercury pcb-risk-reduction- materials/ State Water Board Mercury Page: http://www.waterboards.c a.gov/water_issues/progr ams/mercury/ Updated BACWA PCBs Protocol: https://bacwa.box.com/s/b ws7iil34xradh5xdyc7 |

STATE WATER BOARD TOXICITY PLAN

- Draft State Toxicity Policy issued in June 2012 would establish/require:

 numeric limits for chronic toxicity;
 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);
 - Regional Water Board discretion on inclusion of acute toxicity in permits and whether to allow for dilution.
- State Water Board released a Fact Sheet in 2013 outlining proposed revisions, and invited stakeholders to weigh in on the proposed updates.

- BACWA submitted a comment letter to the State Water Board outlining our response to the 2013 Fact Sheet and proposing language to reduce monitoring requirements.
- BACWA representatives have met with Regional Water Board Staff to discuss the Region 2 implementation of acute toxicity testing and instream waste concentrations.
- On September 4, 2014, EPA issued a formal objection to draft permits that Region 4 was developing for two of Los Angeles County Sanitation Districts' (LACSD) facilities (Whittier Narrows and Pomona). They required immediate introduction of toxicity limits, rather than triggers, and made recommendations on how these limits would be implemented. BACWA supported a CASA-led petition to the State Water Board requesting a stay to the two LACSD permits, which has since been put in abeyance.
- On January 15, 2015, EPA issued a formal objection letter to the permit under development for Las Gallinas Valley Sanitary district requiring that they be given numeric chronic toxicity limits. Las Gallinas' new permit contains both toxicity limits and triggers. POTWs in Region 2 with reasonable potential are expected to have chronic toxicity limits in the future.
- BACWA has joined SCAP, CVCWA and NACWA in a lawsuit alleging EPA did not follow proper procedure in requiring use of the TST.

- BACWA will comment on the next draft of the Toxicity Plan once it is released (expected Spring 2017).
- Key issues for BACWA to discuss with the State Water Board continue to be the enforceable limits, monitoring frequency, reasonable potential analysis methodology, sensitive species screening requirements, and instream waste concentration.
- Work with other POTWs in the State through CASA to support research into improving the validity of chronic toxicity tests.

State Board Page: http://www.swrcb.ca.gov/ water_issues/programs/st

ate_implementation_polic y/tx_ass_cntrl.shtml

Fact Sheet:

https://bacwa.box.com/s/m7dcmzeugfwylwsusl74

BACWA Comment Letter: https://bacwa.box.com/s/bws7iil34xradh5xdyc7

2015 Draft Toxicity Plan: http://bacwa.org/wpcontent/uploads/2015/09/ 10.-Toxplan_for_EPA_review1.p df

EPA Formal Objection to Region 4 permits: https://bacwa.box.com/s/ 9ig0fx6b5htygg7d8dzd

CASA Petition to State Water Board on Region 4 permits:

https://bacwa.box.com/s/ plgv0oao4rnkr4sufjmssqz i7jxhpbbh

EPA Formal Objection to Las Gallinas Permit https://bacwa.box.com/s/ pdmtzgd8vfad5ceez19x3 6qu2uqph902

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| COMPOUNDS OF EMERGING CONCERN | | | | |
| 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 is developing a Pilot CECs Monitoring Plan for the State. Region 2's CEC strategy focuses on monitoring/tracking concentrations of constituents with high occurrence and high potential toxicity and source control. Much of what the State Water Board is considering for its Pilot Monitoring Plan is already being implemented in Region 2 through the RMP. | Pulse of the Bay 2013 focused on CECs. The San Francisco Bay CEC strategy will expand to include some degree of POTW effluent monitoring. BACWA submitted a letter to the State Water Board urging them to work through the RMP's existing CECs program when developing a Statewide CECs Monitoring Plan. BACWA has provided RMP with a list of volunteer POTWs to have their effluent monitored for CECs by the RMP. This monitoring would be for informational and not for compliance purposes. BACWA is working with SFEI and volunteer member agencies to support contracting for CEC analysis. | Continue to participate in the RMP CEC Workgroup and solicit agency volunteers for future studies. Work with the Regional Water Board to develop CEC Management Actions Fact Sheets. | BACWA letter to State Water Board on draft CECs Pilot Monitoring Plan: http://bacwa.org/wp-content/uploads/2016/03/ BACWA_BASMAA-comments-CECs-Monitoring-Plan-030816-2.pdf Regional Monitoring Program CEC Workgroup: http://www.sfei.org/rmp/ecwg#tab-1-4 Pulse of the Bay 2013: http://www.sfei.org/sites/default/files/biblio_files/Pulse_2013_CECs.pdf | |
| RECYCLED WATER GENERAL ORDE | R | | | |
| In response to the Governor's proclamation of a Drought State of Emergency, the State Water Board adopted a General Order on June 3, 2014 to streamline permitting for recycled water. The State Water Board reissued the General Order on June 7, 2016, making enrollment mandatory for Regional Permittees. The State General Order, as adopted, is more onerous than Region 2's General Order for water reuse, 96-011. | Enrollment is mandatory for 96-011 permittees within three years of adoption of the State General Order, which is June 7, 2019. The San Francisco Regional Water Board has not yet developed a strategy for how to manage the transition. The State Water Board plans to update the State General Order within the next three years subsequent to its revision of the State Recycled Water Policy. One of the anticipated changes to both documents is a reduction in priority pollutant monitoring. | Work with our agencies to see how coverage under the new State General Order impacts their new recycled water projects. Develop a proposal for streamlined transition of 96-011 enrollees to State General Order to deliver to the Regional Water Board. Provide comments on 2017 State Recycled Water Policy update through WateReuse, and participate in stakeholder process. A proposed revision is expected in March 2018. | 2016 State Recycled Water General Order: http://www.waterboards.c a.gov/board_decisions/ad opted_orders/water_quali ty/2016/wqo2016_0068_d dw.pdf | |

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| ELAP UPDATE | | | |
| In August 2015, the State Water Board contracted with Southern California Coastal Water Research Project to establish and facilitate an Expert Review Panel to conduct an examination of ELAP, California's laboratory certification body. The Expert Review Panel concluded that ELAP's current regulations are inadequate. The Panel recommended that ELAP adopt the laboratory standard established by The NELAC Institute (TNI) as the most viable option for California. The Environmental Laboratory Technical Advisory Committee (ELTAC) was established to assist ELAP in technical matters that impact the laboratory community. The committee is composed of representatives from the laboratory community and data users, and have represented the POTW laboratory community during this process. | Adopting TNI standards will pose a challenge since there are more than 1000 individual requirements in the full document. Initial costs may include hiring staff to handle TNI-related paperwork; hiring consultants to setup the TNI documentation framework; purchasing Laboratory Information Management System (LIMS) software; purchasing documents and training material from TNI, etc. The new standards could be a particular burden on small municipal laboratories, which may choose to close if they cannot economically meet the new standards. At their October 6 Workshop, the State Water Board announced that they will proceed with the TNI standard, but will remove some requirements. The proposed standards are expected to be posted for public comment in Winter 2017, with adoption approximately one year later. | Comment on proposed standards when they are available, in 2017. | Revised notice of opportunity to comment: http://www.swrcb.ca.gov/drinking_water/certlic/labs/documents/100616_rev_notice_elap%20wrkshp_comment.pdf |

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| PHASEOUT OF BIOSOLIDS AS ALTE | RNATIVE DAILY COVER | | |
| Many drivers are indicating the phase-out of biosolids as alternative daily cover (ADC): CARB called for a virtual elimination of all organics in landfills by 2025 in the Proposed Short-Lived Climate Pollutant Reduction Strategy. AB 341 sets a goal to recycle 75% of solid waste by 2020 and CalRecycle's plan to achieve that goal calls for a marked, but as-yet unquantified, reduction of organics to landfills. In 2020 CalRecycle will count green waste as disposal (per AB 1594), rather than diversion, when used as ADC. | SB 1383, adopted in September 2016, mandates reduction of methane, and 75% diversion of organics from landfills by 2025. BACWA is conducting a survey to learn how many member agencies rely on ADC for biosolids reuse, and which agencies have plans for its likely phaseout. | Complete the BACWA Biosolids survey. BACWA will report results to members Consider ways to build a market for compost and other soil amendment products made from biosolids, using lessons learned in the Pacific Northwest. Actively work through CASA with California Air Resource Board, CalRecycle, State Water Resource Control Board, and California Department of Food and Agriculture to mutually develop sustainable long term options for the beneficial use of biosolids. Follow efforts of the Bay Area Biosolids to Energy Coalition, investigating all-weather options for biosolids management (including innovative technologies generating useful bioproducts from biosolids). | BACWA Biosolids Survey: https://www.surveymonke y.com/r/LXKF3RL CASA White Paper on Biosolids Reuse in Landfills: https://bacwa.org/wp- content/uploads/2017/01/ 1-11-17-Sustainability-for- biosolids-use-at- landfills.pdf |

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| CLIMATE CHANGE MITIGATION | | | |
| The AB 32 Scoping Plan lays out the approach for the State to meet its greenhouse gas (GHG) emissions reduction targets through 2020 and goals through 2050. The proposed Draft 2030 Target Scoping Plan Update was released in January 2017 for public comment. The Draft 2030 Target Scoping Plan Update states additional policies are needed to achieve GHG levels 40% below 1990 levels by 2030, addressing: Short-lived climate pollutants (i.e., methane) Carbon sequestration on Natural and Working Lands Largest emitters (transportation, electricity, and industrial sectors) The Draft Revised Proposed Short-Lived Climate Pollutant Reduction Strategy (fall 2016) calls for: 40% methane reduction by 2030 75% diversion of organic waste from landfills by 2025 Policy development encouraging production/use of biogas BAAQMD is developing a Clean Air Plan that may require GHG emissions reduction on track with CARB's 2015 target. | SB 1383, adopted in September 2016, mandates reduction of methane and diversion of organics from landfills. It also requires State agencies consider/adopt policies and incentives to increase production and use of renewable gas (i.e., biogas) CARB states POTWs are part of the solution for reducing methane, and encourages diversion of organics to POTWs to use excess digester capacity and produce biogas for use as transportation fuel. Many POTWs are exploring energy generation, but toxic air emissions regulations make waste to energy programs more expensive. Direct injection of biogas to PG&E's pipelines or use as a transportation fuel for a fleet vehicles may be more efficient. CARB aims to develop nitrous oxide emission estimates and/or emission factors for landfills, golf courses, and POTWs. Their research plan identified oxidation ditches as a typical treatment process. To correct this, CASA has distributed a survey on treatment processes used throughout California and is analyzing the data to inform CARB's 2017 state inventory. Draft Clean Air Plan control measures have been posted on BAAQMD's Open Air Forum. These measures are largely exploratory at this stage, but will help guide prioritization of future actions, including those related to greenhouse gas emissions. | Work with CASA to look for opportunities for POTWs to help the State meet GHG reduction goals. Look for opportunities to inform BAAQMD on the opportunities and challenges for climate change mitigation by Bay Area POTWs. Work with PG&E and BAAQMD to explore options for POTWs to inject biogas into PG&E pipelines. | AB 32 Scoping Plan: https://www.arb.ca.gov/cc /scopingplan/scopingplan. htm BAAQMD Clean Air Plan Measures: http://www.baaqmd.gov/in -your-community/open- air#peak democracy CARB proposed Short Lived Climate Pollutants Strategy: https://www.arb.ca.gov/cc /shortlived/meetings/1128 2016/revisedproposedslc p.pdf CASA Survey on POTW treatment: https://www.surveymonke y.com/r/CASA_Survey |

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| BAAQMD Rule 11-18 | | | |
| Draft Regulation 11, Rule 18 (Rule 11-18) is BAAQMD's effort to protect public health from toxic air pollution from existing facilities such as POTWs. BAAQMD staff have identified diesel particulate matter, hydrogen sulfide, cadmium, and mercury as the primary risk drivers for POTWs. | POTWs' concerns related to this Draft Rule include its compliance schedule, potential fiscal impact, control technology determinations, public notification, cross media impacts, and renewable energy production. The Bay Area Clean Water Agencies (BACWA) provided a comment letter on December 2, 2017. BACWA developed a White Paper on the Rule to describe its potential impacts on the POTW community. | Look for opportunities to comment on the proposed rule, such as the BAAQMD Stationary Sources Committee meeting on 1/30. BAAQMD staff is currently on schedule to bring this Draft Rule to their Board for consideration in May 2017. | BAAQMD Rule 11-18 page: http://www.baaqmd.gov/r ules-and-compliance/rule- development/rules-under- development/regulation- 11-rule-18 BACWA Comment Letter: http://bacwa.org/wp- content/uploads/2016/12/ BACWA-AIR-Comment- Letter-Proposed-Rule11- 18-12-02-16-1.pdf BACWA White Paper: https://bacwa.org/wp- content/uploads/2017/01/ 11-18-White-Paper_final- 2.pdf |

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| FEDERAL DENTAL AMALGAM RULE | | | |
| EPA Finalized the Dental Amalgam Rule on December 15, 2016. It has not yet been published in the Federal Register, so it is unknown whether it will be promulgated under the new administration. EPA responded well to the POTW community's comments on the proposed rule, and the final rule has significantly reduced the burden on POTWs. Although all dental offices will be required to have dental amalgam separators, POTWs will only need to collect a one-time certification report from the dental offices and will not be responsible for enforcing compliance BACWA submitted a comment letter on the proposed rule on Feb 20, 2015. | Should the Rule become promulgated, all POTWs, regardless of whether they have an existing pretreatment program, are required to receive the one-time certification from existing and new dental facilities. The final rule identifies the content of the certification form, but the burden to develop a compliant form can fall on individual agencies. A form template may also be developed by national, state, or regional associations/agencies. The BACWA pretreatment committee will discuss the form at future meetings. Agencies with existing dental amalgam programs that require amalgam separator certification forms to be submitted may need to require resubmittal of certifications if the original forms used did not contain the elements specified in the EPA's final rule. Local agencies are not required to permit, inspect, or sample dental offices unless they choose to do so under their local programs. Non-compliant dental practices will not be classified as Significant Industrial Users (SIUs), unless classified as such by their local agency. | Support member agencies to comply with the Rule through the BACWA Pretreatment Committee, if the Rule is promulgated. | EPA Website Resource: https://www.epa.gov/eg/d ental-effluent-guidelines BACWA Comment Letter: http://bacwa.org/wp- content/uploads/2015/04/ Federal-Dental-Amalgam- Rule-Comments- BACWA-Final- shullbacwa.orgpdf |

"Parking lot" issues with no updates can be found in previous **BACWA** issues summaries.

ACRONYMS

ADC Alternate Daily Cover

BAAQMD Bay Area Air Quality Management District

BDCP Bay Delta Conservation Plan CARB California Air Resources Board

CASA California Association of Sanitation Agencies

CEC Compound of Emerging Concern

CIWQS California Integrated Water Quality System CVCWA Central Valley Clean Water Agencies

EC25/IC25 25% Effect Concentration/25% Inhibition Concentration
ELAP Environmental Laboratory Accreditation Program
ELTAC Environmental Laboratory Technical Advisory Committee

EPA United States Environmental Protection Agency

FY17 Fiscal Year 2017 GHG Greenhouse Gas

LACSD Los Angeles County Sanitation Districts
NACWA National Association of Clean Water Agencies

NELAC National Environmental Laboratory Accreditation Conference

PCB Polychlorinated Biphenyl

POTW Publically Owned Treatment Works

RFP Request for Proposals

RWB San Francisco Bay Regional Water Quality Control Board

RMP Regional Monitoring Program

SCAP Southern California Alliance of POTWs

SCCWRP Southern California Coastal Water Research Project

SIU Significant Industrial User

SF Bay San Francisco Bay

SFEI San Francisco Estuary Institute
TMDL Total Maximum Daily Load
TNI The NELAC Institute
TST Test of Significant Toxicity
VOC Volatile Organic Compound
WQBEL Water Quality Based Effluent Limit