BACWA Annual Report

Fiscal Year 2016/17
As water quality regulation becomes increasingly complex and stringent, BACWA provides technical expertise and a venue for collaboration to its membership, and a public utility perspective to negotiations and partnerships with regulators. With forty POTWs and more than a hundred collection systems in the San Francisco Bay region, BACWA provides a necessary mechanism for effective coordination to ensure good regulation and continued water quality improvements throughout the Bay Area.

The clean water community’s focus is now shifting rapidly from toxic pollutant reduction to renewable resource generation; and understanding the potential impacts micro-constituents, compounds detected at often miniscule levels that may present human health or environmental concerns. Concurrently, tightening, and sometimes conflicting, air quality regulations are increasing cross-media challenges. Nutrient science and policy continues to be a major focus for BACWA. Member contributions will continue to support BACWA’s goal of ensuring that any future nutrient regulations are well-supported by science and that any necessary reductions in nutrient loading will be equitable and lead to quantifiable improvements in water quality. Even as the issues change, BACWA continues to offer the services to our members and the public that have garnered the agency much respect and success.

Below is a list of BACWA’s accomplishments over the previous fiscal year.

List of Accomplishments

Nutrient Activities – see BACWA Nutrient Webpage

- BACWA and the Nutrient Contract Management Group completed the following tasks associated with the Nutrient Optimization and Upgrade Studies:
  - Participated in monthly conference calls and reviewed invoices to track consultant’s progress of the Nutrient Optimization and Upgrade Studies
  - Attended site visits along with the consultant team to identify optimization, sidestream treatment, and upgrade opportunities at individual facilities
  - Finalized the format and assumptions used to develop treatment alternatives for individual facilities
  - Hosted a second workshop to discuss Facility Reports with member agencies
  - Submitted Nutrient Optimization and Upgrade Studies Progress Update to the Regional Water board in compliance with the Nutrient Watershed Permit
  - Distributed questionnaires about CIP projects and recycled water to agency points of contact, and collected data
- Submitted Science Plan Progress Update to the Regional Water Board in compliance with the Nutrient Watershed Permit
- Submitted second Nutrient Annual Report in compliance with the Nutrient Watershed Permit
- Developed data worksheet to collect nutrient monitoring data for future Annual Reports
- Funded $880K in scientific studies and Nutrient Management Strategy program coordination
Participated in the Nutrient Management Strategy Steering Committee and Planning Subcommittee governing the scientific studies
Participated in the Nutrient Technical Workgroup
Submitted third-party critique on Scientific Basis to Assess the Effects of Nutrients on San Francisco Bay Beneficial Use.
Updated the Layperson's Nutrient Presentation
Provided a forum for proponents of emerging technologies for nutrient removal to reach members to collaborate for piloting opportunities.
Continued to hold BACWA Nutrient Strategy Team meetings to discuss the Nutrient Watershed Permit reissuance
Worked with Regional Water Board to develop agreement about tenets of second Nutrient Watershed Permit.

Permit Compliance Activities
- Continued funding risk reduction work in compliance with the Mercury and PCB Watershed Permit.
- Prepared a letter to the Regional Water Board, on behalf of our members, demonstrating compliance with special studies requirements in NPDES permits.
- Reported participation in the Alternate Monitoring Plan, and contributions to the Regional Monitoring Program to the Regional Water Board.

Regulatory Advocacy
- Conducted regular bimonthly meetings with Regional Water Board staff to discuss regulatory issues of interest to the BACWA community.
- BAAQMD Rule 11-18 – Held meetings with BAAQMD staff and BACWA member Agency Staff to discuss how to revise proposed Rule 11-18 to make it workable for POTWs to comply in a realistic timeline.
- EPA Selenium Criteria – Met with Water Board and EPA staff to present data informing development of Selenium Criteria for the SF Bay and Delta.
- Worked with POTWs Statewide to respond to common issues, such as the State Water Board’s updated Enforcement Policy and the new Tribal and Subsistence Fishing Beneficial Uses.
- State Toxicity Plan – Met with State Water Board staff to discuss Staff Draft of Toxicity Plan, released in April 2017.
- Joined CVCWA, SCAP, and NACWA in lawsuit against EPA for requiring the use of the Test of Significant Toxicity, an unpromulgated statistical method.
- Provided the following comment letters:
  - Letters to EPA
    - EPA’s proposed Selenium Criteria for SF Bay and Delta, 10-28-16
    - EPA Nutrient Questionnaire, 11-18-16
  - Letters to State Water Board
    - State Water Board Enforcement Policy request for stakeholder involvement, 09-09-16
- State Enforcement Policy Update, 10-18-16
- Proposed changes to ELAP, 10-20-16
- Proposed Collaboration on Toxicity Testing Laboratory Study, 10-26-16
- State Water Board draft “Making Conservation a Way of Life”, 12-19-16
- State Water Board New Beneficial Uses and Mercury Objectives, 02-17-17
- State Water Board Climate Change Resolution, 03-03-17
- State Enforcement Policy Update revisions, 03-03-17
- State Revolving Fund intended Use Plan, 5-22-17
- Letters to San Francisco Bay Regional Water Board
  - Field pH Monitoring, 02-16-17
  - City of Pacifica Tentative Order – Toxicity Limits, 02-17-17
  - CCCSD Tentative Order – nutrient requirements, 03-06-17
  - 303(d) list update, 03-13-17
  - EBDA Tentative Order – Chlorine Residual Permitting, 04-03-17
- Letters to BAAQMD
  - BAAQMD Rule 11-18 - 12-2-16
  - BAAQMD Clean Air Plan, 3-9-17
  - AIR Report on POTW Planning and Project Implementation to BAAQMD, 04-04-17
  - BAAQMD Regulation 2 Rules 1, 2 and 6, 06-26-17
- Pesticides Regulatory Letters
  - Lithium Hypochlorite Registration Review 09-09-16
  - Spinetoram reregistration, 11-18-16
  - Copper Compounds Reregistration, 11-18-16
  - Pyrethroids reregistration comment period extension, 12-2-16
  - Pesticides – Evaluation of Existing regulations, 5-15-17

**Communication with members**
- Conducted routine communication with our membership through the Annual Meeting and Monthly Board meetings.
- Published the monthly BACWA Bulletin
- Conducted the first BACWA Biosolids survey
- Updated Sewer Rate Survey
- Maintained BACWA website to improve usability and access to documents
- Updated the BACWA Regulatory Issues summary matrix
- Provided support to the informal group, Managers RoundTable, to help provide an on-going forum for Bay Area general managers and directors to convene and discuss issue of mutual concern as well as share information and experiences.

**Support Educational, Research, and Advocacy Efforts**
- Conducted regional outreach campaigns related to flushable wipes, copper, pharmaceutical disposal, household hazardous waste, building demolition, and FOG
Provided funding for the California Product Stewardship Council and the Product Stewardship Institute
Provided funding for the Reinventing the Nation’s Urban Water Infrastructure (ReNUWIt), an interdisciplinary, multi-institution research center whose goal is to change the ways in which we manage urban water
Provided funding for the Federal Water Quality Coalition to represent BACWA on national issues
Provided administrative assistance for member agency funding of Wastewater Operator Training courses offered through Solano Community College
Gave input to SFEI on the Microplastic Monitoring and Science Strategy for San Francisco Bay
Coordinated with SFEI to arrange CEC sampling by volunteer member agencies, and administered contract with analytical laboratory
Produced White Paper to explain impact of BAAQMD Proposed Rule 11-18 on members

External Representation and Collaboration
- Provided representation at external groups such as:
  - RMP Technical Review Committee
  - RMP Steering Committee
  - ASC/SFEI Governing Board
  - San Francisco Bay Nutrient Governance Steering Committee
  - San Francisco Bay Nutrient Technical Workgroup
  - SWRCB Nutrient Stakeholder advisory group
  - SWRCB Bacterial Objectives stakeholder group
  - SWRCB Mercury Amendments to the State Plan stakeholder group
  - Summit Partners
  - BAIRWMP
  - NACWA Emerging Contaminants
  - CASA State Legislative Committee
  - CASA Regulatory Workgroup
  - ReNUWIt
  - RMP Microplastics Science Strategy Liaison
  - Bay Area Regional Reliability Task Force
  - AWT Certification Committee
  - WateReuse Workgroup on Recycled Water Policy
  - San Francisco Estuary Partnership

Grant Efforts
- Managed Administration of Proposition 84, Round 1, grant funds
- Participated in EBMUD’s EPA nutrient sidestream treatment grant research activities, including work to develop a Nutrient Trading Framework for the San Francisco Bay
- Worked on revisions for joint proposal, with Santa Clara Valley Water District, and researchers at SFEI, Stanford, and UC Berkeley, to study treatment of reverse osmosis concentrate
BACWA Committees

Support for BACWA’s committees is a key means for BACWA to ensure communication between our members, and to formulate positions on emerging issues that accurately reflect the needs of our membership. BACWA maintains the following active committees:

- Asset Management Infoshare
- Bay Area Pollution Prevention Group – see BAPPG 2016 Annual Report
- Biosolids
- Collection Systems
- Laboratory
- Operations/Maintenance Infoshare
- Permits
- Pretreatment
- Recycled Water
## BACWA FY17 BUDGET

<table>
<thead>
<tr>
<th>Line Item Description</th>
<th>FY 2017 Budget</th>
<th>Actuals June 2017</th>
<th>Actual % of Budget June 2017</th>
<th>Variance</th>
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<td>Misc. Meetings</td>
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<td><strong>Total</strong></td>
<td>$16,600</td>
<td>$18,633</td>
<td>113%</td>
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<td><strong>Communication</strong></td>
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<td>Website Hosting (Computer Courage)</td>
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<td>File Storage (Box.net)</td>
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<td>Other Communication (MS, SM &amp; Code42)</td>
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<td><strong>Total</strong></td>
<td>$5,950</td>
<td>$2,711</td>
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Financial Notes:
Miscellaneous Meetings: Underbudgeted in FY17 – should have included CASA, NACWA, Toxicity Workshop.
Opt/Upgrade: Overbudgeted in FY16, underbudgeted in FY17 to correct.
Unbudgeted Items: Pharmaceutical Studies Passthrough and transfer of AIR Fund balance to BACWA Fund.
List of BACWA Members as of June 30, 2017

**Principals**
East Bay Municipal Utility District
East Bay Dischargers Authority
  - Castro Valley Sanitary District
  - City of Hayward
  - City of San Leandro
  - Oro Loma Sanitary District
  - Union Sanitary District
San Francisco Public Utilities Commission
Central Contra Costa Sanitary District
City of San Jose

**Associates**
Central Marin Sanitation Agency
City of Livermore
City of Palo Alto
City of Sunnyvale
Delta Diablo Sanitation District
Dublin-San Ramon Services District
Fairfield Suisun Sewer District
Napa Sanitation District
Silicon Valley Clean Water
San Mateo Wastewater Treatment Plant
South San Francisco
Vallejo Sanitation and Flood Control District
West County Agency

**Affiliates**
City of Alameda           City of Petaluma
City American Canyon     City of Piedmont
City of Albany           City of Pleasanton
City of Antioch          City of Redwood City
City of Belmont          City of Richmond
City of Benicia          City of San Bruno
City of Berkeley         City of San Carlos
City of Brisbane         City of St. Helena
City of Burlingame      Cupertino Sanitary District
City of Calistoga        Las Gallinas Valley Sanitary District
City of Crockett         Mt. View Sanitary District
City of Fairfield        North San Mateo Sanitation District
City of Millbrae         Novato Sanitary District
City of Milpitas         Pacifica
City of Mountain View    Pinole/ Hercules Wastewater Treatment Plant
<table>
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<tr>
<th>Agency</th>
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<tbody>
<tr>
<td>Rodeo Sanitary District</td>
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<tr>
<td>San Francisco International Airport</td>
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<tr>
<td>San Mateo County, Department of Public Works</td>
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<tr>
<td>Sanitary District of Marin County No. 1</td>
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<td>Sausalito/Marin City Sanitary District</td>
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<td>Sewer Authority Mid-Coastside</td>
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