



# BACWA Annual Report

Fiscal Year 2015/16

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 expanding rapidly beyond its historical mission of pollutant reduction to renewable energy generation and resource recovery. New challenges are also emerging such as better understanding the potential impacts of micro-constituents, compounds detected at often miniscule levels that may present human health or environmental concerns. 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 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 over the years have garnered the agency much respect and success.

Below are a list of BACWA's accomplishments over the previous fiscal year.

## List of Accomplishments

### ***Nutrient Activities***

- 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 provided direction to the consulting team conducting 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
  - Reviewed a selection of draft Facility Reports to make recommendations about their formats and the assumptions used to develop treatment alternatives for individual facilities
  - Reviewed assumptions to study the cost of implementing no increase in net loading of nutrients to the SF Bay
  - Hosted a 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
- Submitted Science Plan Progress Update to the Regional Water Board in compliance with the Nutrient Watershed Permit



- Submitted the first Nutrient Group Annual Report in compliance with the Nutrient Watershed Permit
- Funded \$880K in scientific studies and \$100K for 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 and Stakeholder Advisory Group
- Convened a kickoff meeting for the BACWA Nutrient Strategy team to begin to discuss the Nutrient Watershed Permit reissuance
- Circulated a survey to members to gauge agency positions with respect to negotiating the next Nutrient Watershed Permit
- Developed a survey on agencies' plans for recycled water, and their capital budgeted projects to estimate the nutrient load reductions these projects may entail
- Coordinated sidestream sample analysis for nutrients
- Contracted with national experts to provide a third party review of the Scientific Basis to Assess the Effects of Nutrients on San Francisco Bay Beneficial Uses and associated documents

#### ***Permit Compliance Activities***

- Conducted a competitive selection process and selected two community-based organizations to receive grants to conduct risk reduction activities. These projects will be conducted to comply with the mercury/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

#### ***Regulatory Advocacy***

- North SF Bay Selenium TMDL - Worked with Regional Water Board and member agencies to ensure integrity of data used to calculate load allocations
- Shallow discharge prohibition – Held discussions with Regional Water Board on how to permit near shore discharges to facilitate marshland enhancement for habitat and sea level rise protection
- Alternate monitoring plan – Worked with Regional Water Board to develop option for POTWs to reduce monitoring frequencies for low value specified chemical analyses, and eliminate the requirement to perform routine sensitive species screening for chronic toxicity. For agencies that opt into the Alternate Monitoring Plan, the cost savings from the monitoring reductions will be transferred directly to the Regional Monitoring Program in the form of a fee surcharge.
- Comprehensive Conservation Management Plan (CCMP) - Coordinated with SFEP on the CCMP to provide input on actions pertaining to wastewater or recycled water
- Conducted regular bimonthly meetings with Regional Water Board staff to discuss regulatory issues of interest to the BACWA community
- Held a meeting with BAAQMD staff and BACWA member Agency Staff to discuss how air and water regulations impact initiatives to mitigate greenhouse gas emissions



- Submitted the following comment letters:
  - *Water Quality Control Plan for the San Francisco Bay Basin 2015 Triennial Review* – Commented on the prioritization of issues in the Triennial Review and proposed two new projects
  - *North Bay Selenium TMDL* – Provided comments recommending a small change in language recognizing the variability in the selenium data used to calculate wasteload allocations
  - Pesticides – Submitted letters to EPA and California DPR requesting that they review pesticide applications before registration to fully assess the potential for pesticides to impact water quality and wastewater treatment plant processes and biosolids
  - *BAAQMD Rule 11-10* - Commented that setting a hydrocarbon limit in cooling tower water without regard to the baseline hydrocarbon concentration of the source water may inadvertently restrict the use of recycled water
  - *Alternate Monitoring Requirements* – Commented on implementation of the Alternate Monitoring Plan.
  - *State Water Board General Order for Recycled Water* - Recommended that language in the January 2016 draft of the State General Order be revised to clarify that existing, expanded, and new projects may elect to seek coverage under either their existing permits or the State General Order. Upon the April 2016 revision of the draft General Order with a new Finding 34, stating that enrollment would be mandatory for all Regional permittees, BACWA submitted a comment letter urging the State Water Board not to incorporate Finding 34, and recommending ways to mitigate the administrative burden if Regional enrollees are required to seek coverage under the State General Order
  - *Scientific Basis to Assess the Effects of Nutrients on San Francisco Bay Beneficial Uses* – Commented to the Regional Water Board and the manuscript's authors highlighting data gaps, and requesting that the manuscript's publication be delayed until it is peer reviewed as part of the Nutrient Management Strategy
  - *State CECs Pilot Monitoring Plan* - Submitted a joint letter to the State Water Board strongly encouraging them to work within the framework and budget of the RMP CECs program
  - *FDA Recommendation to flush certain medications* – Joined over 100 environmental and health organizations, agencies, activists, and state legislators from around the country in signing a letter urging the FDA to end its recommendation that certain medications be disposed of by flushing, and to clarify that secure medicine take-back programs provide the best disposal method for leftover household medications
  - *Surface Water Augmentation Regulations* – Recommended the use of a clause in the regulations that would allow consideration of equivalent level of public health protection where there is less than the minimum retention time stipulated by the regulations
  - *Support for SB1229 through BAPPG* - Submitted a letter to Bay Area Senators in support of SB1229, which offers liability protections for pharmacies that have pharmaceutical take-back bins
  - *Support for AB 888 through BAPPG* - Submitted a letter to Bay Area Senators in support of a bill to ban the use of plastic microbeads in personal care products



### ***Communication with members***

- Conducted routine communication with our membership through the Annual Meeting and Monthly Board meetings.
- Published the monthly BACWA Bulletin
- Conducted a regional POTW Budget Survey
- Conducted a Private Sewer Lateral Survey
- Maintained the BACWA Website to improve usability and access to documents
- Updated the BACWA Regulatory summary matrix
- Produced a Pesticide Regulatory “Call to Action” Summary sheet
- Updated the Truck Fill Guide for contractors and Caltrans to identify agencies that could supply recycled water for construction projects
- Reviewed and distributed the BACWA-funded Wheeler Institute White Paper on Citizen Enforcement in Sanitary Sewer Overflows in California

### ***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 help represent BACWA on national issues
- Provided administrative assistance for member agency funding of the Wastewater Operator Training courses offered through Solano Community College
- Awarded the Arleen Navarret Award for leadership in the local POTW community
- Explored developing a method to more accurately identify and quantify microplastics in wastewater
- Coordinated with SFEI to arrange CEC sampling by volunteer member agencies

### ***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
  - Statewide Pesticide Steering Committee
  - Summit Partners
  - BAIRWMP



- NACWA Emerging Contaminants
- CASA State Legislative Committee
- CASA Regulatory Workgroup
- NeNUWI
- RMP Microplastics Science Strategy Liaison
- Bay Area Regional Reliability Task Force
- AWT Certification Committee

### **Grant Efforts**

- Managed administration of Proposition 84, Round 1, grant funds
- Participated in EBMUD's EPA nutrient sidestream treatment grant research activities
- Developed a joint proposal, with the 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:

- Air Issues and Regulations (partial support)
- Bay Area Pollution Prevention Group (for more details please refer to the [BAPPG Annual Report](#))
- Biosolids
- Collection Systems
- Laboratory
- Operations/Maintenance and Asset Management Infoshare
- Permits
- Pretreatment
- Recycled Water



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Financial Report

<b><u>BACWA FY16 BUDGET</u></b>	<b><u>Line Item Description</u></b>	<b><u>FY2016 Budget Amended</u></b>	<b><u>FY2016 Actuals June 2016</u></b>	<b><u>Actual % of Budget June 2016</u></b>	<b><u>Variance</u></b>
<b><u>REVENUES &amp; FUNDING</u></b>					
Principals' Contributions		\$468,180	\$468,180	100.00%	\$0
Associate & Affiliate Contributions		\$171,639	\$173,199	100.91%	\$1,560
Fees	Clean Bay Collaborative	\$675,000	\$674,250	99.89%	-\$750
	Nutrient Surcharge	\$600,000	\$600,608	100.10%	\$608
Other Receipts					
	AIR Committee Phase-in	\$50,000	\$48,080	96.16%	-\$1,920
	AIR Non-Member	\$6,200	\$6,200	100.00%	\$0
	BAPPG Non-Members	\$3,600	\$3,600	100.00%	\$0
	Other	\$0	\$16,100		
Fund Transfer	Special Program Admin Fees	\$2,500	\$4,938	197.52%	\$2,438
Interest Income	Funds	\$1,500	\$14,104	940.27%	\$12,604
	<b>Total Revenue</b>	<b>\$1,978,619</b>	<b>\$1,993,159</b>	<b>100.73%</b>	<b>\$14,540</b>
<b><u>EXPENSES</u></b>					
	<b><u>Line Item Description</u></b>	<b><u>FY2016 Budget Amended</u></b>	<b><u>FY2016 Actuals June 2016</u></b>	<b><u>Actual % of Budget June 2016</u></b>	<b><u>Variance</u></b>
<b>Labor</b>					
	Executive Director	\$183,498	\$183,498	100.00%	\$0
	Assistant Executive Director	\$78,642	\$78,632	99.99%	\$10
	Regulatory Program Manager	\$123,360	\$118,025	95.68%	\$5,335
	<b>Total</b>	<b>\$385,500</b>	<b>\$380,155</b>	<b>98.61%</b>	<b>\$5,345</b>
<b>Administration</b>					
	EBMUD Financial Services	\$40,000	\$44,446	111.12%	-\$4,446
	Administrative Expenses	\$7,500	\$4,077	54.36%	\$3,423
	Insurance	\$4,500	\$4,147	92.16%	\$353
	<b>Total</b>	<b>\$52,000</b>	<b>\$52,670</b>	<b>101.29%</b>	<b>-\$670</b>





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	<i>Line Item Description</i>	<b>FY2016 Budget Amended</b>	<b>FY2016 Actuals June 2016</b>	<b>Actual % of Budget June 2016</b>	<b>Variance</b>
<b>Meetings</b>					
	EB Meetings	\$2,500	\$1,707	68.28%	\$793
	Annual Meeting	\$8,000	\$4,131	51.64%	\$3,869
	Pardee	\$5,000	\$5,753	115.06%	-\$753
	Misc. (Summit Partners)	\$1,100	\$1,590	144.55%	-\$490
	<b>Total</b>	<b>\$16,600</b>	<b>\$13,181</b>	<b>79.40%</b>	<b>\$3,419</b>
<b>Communication</b>					
	Website Development/Maintenance				
	Website Hosting (Computer Courage)	\$600	\$600	100.00%	\$0
	File Storage (Box.net)	\$720	\$720	100.00%	\$0
	Website Development/Maintenance	\$1,200	\$436	36.33%	\$764
	<b>Subtotal</b>	<b>\$2,520</b>	<b>\$1,756</b>	<b>69.68%</b>	<b>\$764</b>
	IT Support & Software				
	Managed Services	\$1,800	\$0	0.00%	\$1,800
	IT Support (As Needed)	\$2,000	\$2,223	111.15%	-\$223
	Email (Office 365/MS Exchange)	\$480	\$480	100.00%	\$0
	Other Communication (Survey Monkey)	\$288	\$288	100.00%	\$0
	<b>Subtotal</b>	<b>\$4,568</b>	<b>\$2,991</b>	<b>65.48%</b>	<b>\$1,577</b>
	<b>Total</b>	<b>\$7,088</b>	<b>\$4,747</b>	<b>66.97%</b>	<b>\$2,341</b>
<b>Legal</b>					
	Regulatory Support	\$2,500	\$70	2.80%	\$2,430
	Executive Board Support	\$2,000	\$1,392	69.60%	\$608
	<b>Total</b>	<b>\$4,500</b>	<b>\$1,462</b>	<b>32.49%</b>	<b>\$3,038</b>

	<i>Line Item Description</i>	<b>FY2016 Budget Amended</b>	<b>FY2016 Actuals June 2016</b>	<b>Actual % of Budget June 2016</b>	<b>Variance</b>
<b>Committees</b>					
	AIR	\$50,000	\$50,857	101.71%	-\$857
	BAPPG	\$86,000	\$77,864	90.54%	\$8,136
	Biosolids Committee	\$3,100	\$1,183	38.16%	\$1,917
	Collections System	\$10,000	\$1,050	10.50%	\$8,950
	InfoShare Groups	\$1,000	\$1,133	113.30%	-\$133
	Laboratory Committee	\$6,000	\$2,291	38.19%	\$3,709
	Permit Committee	\$1,000	\$0	0.00%	\$1,000
	Pretreatment	\$1,000	\$989	98.90%	\$11
	Recycled Water Committee	\$1,000	\$0	0.00%	\$1,000
	Misc Committee Support	\$30,000	\$0	0.00%	\$30,000
	<b>Total</b>	<b>\$189,100</b>	<b>\$135,367</b>	<b>71.59%</b>	<b>\$53,733</b>
<b>Collaboratives</b>					
	<b>Collaboratives</b>				
	State of the Estuary (biennial)	\$0	\$0	0.00%	\$0
	Arleen Navarret Award	\$1,000	\$1,577	157.70%	-\$577
	FWQC (Fred Andes)	\$5,000	\$5,000	100.00%	\$0
	Stanford ERC (ReNUWit)	\$10,000	\$10,000	100.00%	\$0
	CWCCG	\$35,000	\$35,000	100.00%	\$0
	<b>Total</b>	<b>\$51,000</b>	<b>\$51,577</b>	<b>101.13%</b>	<b>-\$577</b>



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	<i>Line Item Description</i>	<b>FY2016 Budget Amended</b>	<b>FY2016 Actuals June 2016</b>	<b>Actual % of Budget June 2016</b>	<b>Variance</b>
<b>Tech Support</b>	<b>Technical Support</b>				
	Nutrients				
	Watershed	\$880,000	\$870,000	98.86%	\$10,000
	Additional work under permit	\$100,000	\$30,633	30.63%	\$69,367
	Opt/Upgrade/Annual Reporting Studies	\$559,000	\$220,203	39.39%	\$338,797
	Nutrient Program Coordination	\$50,000	\$100,000	200.00%	-\$50,000
	General Tech Support	\$136,779	\$64,432	47.11%	\$72,347
	Chemicals of Concern	\$15,000	\$15,000	100.00%	\$0
	Risk Reduction	\$17,500	\$18,901	108.01%	-\$1,401
	<b>Total</b>	<b>\$1,758,279</b>	<b>\$1,319,169</b>	<b>75.03%</b>	<b>\$439,110</b>
	<b>TOTAL EXPENSES</b>	<b>\$2,464,067</b>	<b>\$1,958,328</b>	<b>79.48%</b>	<b>\$505,739</b>
	<b>NET INCOME BEFORE TRANSFERS</b>	<b>-\$485,448</b>	<b>\$34,831</b>		
	<b>TRANSFERS FROM RESERVES</b>	<b>\$485,448</b>	<b>\$0</b>		
	<b>NET INCOME AFTER TRANSFERS</b>	<b>\$0</b>	<b>\$34,831</b>		

List of BACWA Members as of June 30, 2016

**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





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**Affiliates**

City of Alameda  
City American Canyon  
City of Albany  
City of Antioch  
City of Belmont  
City of Benicia  
City of Berkeley  
City of Brisbane  
City of Burlingame  
City of Calistoga  
City of Crockett  
City of Fairfield  
City of Millbrae  
City of Milpitas  
City of Mountain View  
City of Petaluma  
City of Piedmont  
City of Pleasanton  
City of Redwood City  
City of Richmond  
City of San Bruno  
City of San Carlos  
City of St. Helena

Cupertino Sanitary District  
Las Gallinas Valley Sanitary District  
Mt. View Sanitary District  
North San Mateo Sanitation District  
Novato Sanitary District  
Pacifica  
Pinole/ Hercules Wastewater Treatment Plant  
Rodeo Sanitary District  
San Francisco International Airport  
San Mateo County, Department of Public Works  
Sanitary District of Marin County No. 1  
Sanitary District of Marin No. 2  
Sanitary District of Marin No. 5  
Sausalito/Marin City Sanitary District  
Sewer Authority Mid-Coastside  
Sewerage Agency of Southern Marin  
Sonoma County Water Agency  
Steger Sanitary District  
Tamalpais Community Services District  
Treasure Island  
West Bay Sanitary District  
West Valley Sanitation District  
Yountville