



<u>Agenda Item</u>	<u>Time</u>	<u>Pages</u>
ROLL CALL AND INTRODUCTIONS	9:00 AM	
PUBLIC COMMENT	9:03 AM	
CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER	9:04 AM	
CONSENT CALENDAR	9:05 AM	
1 April 15, BACWA Executive Board Meeting Minutes		3-10
2 March, 2016 Treasurer's Reports		11-21
APPROVALS & AUTHORIZATIONS	9:06 AM	
3 <u>Approval</u> : BACWA Chair & Vice-Chair Nomination & Election		22
4 <u>Approval</u> : FY17 BACWA Succession Plan		23-26
5 <u>Approval</u> : FY17 Agreements - Amendments		27-29
a. DRW Engineering - Executive Director Amendment		
b. Sherry Hull - Assistant Executive Director Amendment		
6 <u>Approval</u> : FY17 Lorien Fono - Regulatory Program Manager Agreement		30-33
7 <u>Approval</u> : Amendment No. 2 to Optimization/Upgrade Studies		34-35
8 <u>Authorizations (Executive Director)</u> :		
a. FY 17 Downey Brand Amendment		36-38
b. FY17 Day Carter Murphy Amendment		39-41
c. FY17 Cayuga Information Systems		42-44
OTHER BUSINESS - POLICY/STRATEGIC	9:15 AM	
9 <u>Discussion</u> : Nutrients		
a. Regulatory		
i. Opt/Upgrade Wave 1 Reports		45
ii. Opt/Upgrade Workshop		46-47
iii. Recycled Water/Capital Improvement Plan Survey		48-50
b. Technical Work		
i. Update on Document Review		51 & Link
ii. Lower South Bay Synthesis		Link
c. Governance Structure		
i. Planning Subcommittee Meeting No. 19		52-61
ii. Steering Committee Meeting No. 9		62-63
10 <u>Discussion</u> : Water Board Joint Meeting Debrief		64-66
11 <u>Discussion</u> : Biosolids Survey & Literature Review		67
12 <u>Discussion</u> : CV SALTS Bay Area Brine Disposal		Link

OTHER BUSINESS - OPERATIONAL		11:05 AM	
13	<u>Discussion:</u> Semi-annual Update on CWCCG		
14	<u>Discussion:</u> Drought/Recycling		
	a. Prop 1 Proposal		68
	b. State General Order - Mandatory enrollment of 96-011		69-71
	c. CCMP Draft Actions		72
15	<u>Discussion:</u> Bay Planning Coalition Summit		Link
16	<u>Discussion:</u> Pesticides Update		73-74
17	<u>Discussion:</u> Microplastics		
18	<u>Discussion:</u> Report on Biocycle Panel about Co-digestion		
19	<u>Discussion:</u> Update on Projects of Special Benefit		
	a. Water Operator Training Program		75
	b. Bay Area Biosolids to Energy		Link
20	<u>Discussion:</u> AIR Committee Support RFP		76-82
21	<u>Discussion:</u> BAAQMD Joint Meeting Agenda		83
REPORTS		12:00 PM	
22	Committee Reports		84-100
23	Member Highlights		
24	Executive Director Report		101-110
25	Regulatory Program Manager Report		111-112
26	Other BACWA Representative Reports		
	a. RMP TRC	Rod Miller	
	b. RMP Steering Committee	Karin North; Jim Ervin	
	c. Summit Partners	Dave Williams	
	d. ASC/SFEI	Laura Pagano; Dave Williams	
	e. Nutrient Governance Steering Committee	Ben Horenstein; Jim Ervin	
	f. SWRCB Nutrient SAG	Dave Williams	
	g. SWRCB Focus Group – Bacterial Objectives	Lorien Fono; Amy Chastain	
	h. SWRCB Focus Group – Mercury Amendments to the State Plan	Tim Potter	
	i. Nutrient Technical Workgroup	Eric Dunlavey	
	j. NACWA Taskforce on Dental Amalgam	Tim Potter	
	k. BAIRWMP	Cheryl Munoz; Linda Hu; Dave Williams	
	l. NACWA Emerging Contaminants	Karin North; Melody LaBella	
	m. CASA Statewide Pesticide Steering Committee	Melody LaBella	
	n. CASA State Legislative Committee	Lori Schectel	
	o. CASA Regulatory Workgroup	Lorien Fono	
	p. ReNUWit	Mike Connor; Ben Horenstein	
	q. RMP Microplastics Liaison	Nirmela Arsem	
	r. AWT Certification Committee	Maura Bonnarens	
	s. Bay Area Regional Reliability Project	Roger Bailey; Mike Connor	113-122
27 SUGGESTIONS FOR FUTURE AGENDA ITEMS		12:27 p.m.	
NEXT MEETING		12:29 p.m.	
The next regular meeting of the Board is scheduled for June 17, 2016 from 9:00 am – 12:30 pm at the SFPUC, Hetch Hetchy Room, 13th Floor, 525 Golden Gate Ave., San			
ADJOURNMENT		12:30 p.m.	



Executive Board Meeting Minutes

April 15, 2016

ROLL CALL AND INTRODUCTIONS

Executive Board Representatives: Laura Pagano (San Francisco Public Utilities Commission); Jim Ervin (San Jose); Jason Warner (East Bay Dischargers Authority); (East Bay Municipal Utility District); Lori Schectel (Central Contra Costa Sanitary District).

Other Attendees:

<u>Name</u>	<u>Agency/Company</u>
Amanda Roa	Delta Diablo
Bhavani Yerrapotu	Sunnyvale
Cheryl Munoz	SFPUC
David Senn	SFEI
Denise Connors	LWA
Greg Baatrup	FSSD
Holly Kennedy	HDR
Lori Schectel	CCCSD
Luis Jaimes	Santa Clara Valley Water Dist.
Phillippe Daniel	HDR
Rhodora Biagtan	DSRSD
Robert Wilson	Petaluma
Tom Hall	EOA
Leah Walker	Petaluma
Melanie Tan	Kennedy Jenks
Maura Bonnarens	EBMUD
David Williams	BACWA
Lorien Fono	BACWA
Sherry Hull	BACWA

PUBLIC COMMENT

None.

CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER

Items 8 and 11.a were taken out of order following the Authorizations & Approvals.

CONSENT CALENDAR

1. March 18, BACWA Executive Board Meeting Minutes – a correction was made to Item 13-Discussion: Alternative Monitoring Program. It should read Discussion: Alternate Monitoring Program. The approved minutes, with the correction, will be placed on the BACWA website.

2. February 2016 Treasurer's Reports and Financial Summary – The Executive Director noted that a new Financial Summary Report is included in this month's handout. It provides the Board with a concise overview of the Fund Balances and the current status of the Annual Budget and points out any variances in the budget to date. The Board thanked Staff and commented that the Summary is very helpful and adds clarity.

***Consent Calendar items 1 and 2** were approved in a motion made by Lori Schectel and seconded by Jason Warner. The motion carried unanimously.*

AUTHORIZATIONS & APPROVALS

3. Approval: FY17 BACWA Budget & Workplan – A Board Action Request, the FY17 Budget, and the FY17 Workplan were included in the Handout on **Pages 18-31**. The Executive Director highlighted changes to Revenue in the FY17 Budget for the Nutrient Surcharge – an increase to \$800,000, and the AIR Committee Phase-in – elimination of participants fees; and changes to Expenses for Labor/Regulatory Program Manager – a reduction, Collaboratives/FWQC – an increase in their dues, and to Tech Support/Additional Work Under Permit – a reduction and Tech Support/Program Coordination – the addition of a placeholder.

***Item 3** was approved in a motion made by Jason Warner and seconded by Lori Schectel. The motion carried unanimously.*

4. Approval: Technical Document Review Contract – A Board Action Request and an agreement with LimnoTech were included in the Handout on **Pages 32-39**. The Executive Director gave an overview of the history of the agreement process as noted in the Board Action Request. He also pointed out that a Schedule for Task Order #1 will be added to the Scope of Work and that the Schedule will be contingent on the ease of obtaining documents from the Water Board. It was noted that this agreement is an omnibus agreement and that approval of the contract also authorizes completion of Task Order No. 1. Future Task Orders will be brought to the Board for approval.

***Item 4** was approved in a motion made by Jason Warner and seconded by Lori Schectel. The motion carried unanimously.*

OTHER BUSINESS-POLICY/STRATEGIC

Agenda **Item 5** – Discussion: Nutrients

a. Regulatory

- i. Opt/Upgrade Workshop – The first wave of reports will be coming out at the end of April. BACWA plans to hold a workshop in the summer of 2016 to assist members’ understanding of the reports.
 - ii. W/S Permit Membership Survey – Documents addressing the timing of preparation for the 2nd Watershed Permit and a potential Watershed Permit Survey were included in the Handout on **Pages 40-47**. The Executive Director noted the options that are listed for the timing and strategy for opening discussions on the next Watershed Permit. The consensus from the Board was to not move forward with a survey until after the Opt/Upgrade workshop, which would be an opportunity to better explain the different strategy alternatives to the members. It was suggested that if and when a survey is provided to the BACWA members, it should include pros and cons to each option along with setting each option within the context of potential nutrient-related capital improvements and costs for no net loading increases.
 - iii. CMG Updates – An Agenda and Minutes of the April 8, 2016 CMG call, along with the Recycled Water Survey from 2015, were included in the Handout on **Pages 48-51**. HDR noted that they have submitted a draft facility report to CCCSD to test drive the format and assumptions. They are incorporating comments from the CMG to the structure of the facility reports. They are currently working on additional reports and expect to submit the first wave of reports to agencies by the end of April. They are creating a master table to help determine cost efficiencies. There will be a few additional data requests such as recycled water and CIP’s and Master Plan information. HDR addressed questions on why they will be creating an Information Request spreadsheet for Annual Reporting data going forward. This year they had a problem with the integrity of the CIWQS data and the new spreadsheet will actually simplify and streamline the data collection process. The Regulatory Program Manager commented that some members have noted that they have received little in the way of updates recently and she will provide an update to members in the May BACWA Bulletin. HDR will put together a factsheet for BACWA on data reporting.
- b. Technical Work
- i. Science Plan Update – David Senn, Lead Scientist for the Bay Area Nutrient Management Program, gave an update on the Science Plan. The presentation included team contributors; management questions; Water Board goals and timeframes; constraints; activity over time; study tiers; and the Science Plan peer review and comments. It also included a discussion of funding shortfalls. The Science Plan Update presentation can be seen on the BACWA website on the Nutrients page.
- c. Governance Structure -
- i. Program Coordinator – David Senn also gave an update on Program Coordination, including the scope of work. The funds provided by BACWA will help grow the Science Program, improve efficiency, enhance funding efforts, build new technical programs, manage the NMS process and make the NMS program more transparent.

Funding goals include \$250,000 in “new” money and \$250,000 in real match funds. He will continue to brief the Planning Subcommittee on an ongoing basis.

- ii. Planning Subcommittee #18 Debrief – An Agenda from the PS Meeting #18 on April 6, 2016 was included in the Handout on **Pages 52-53**. Key issues discussed included Prop 1, funding science and modeling efforts.

Agenda **Item 6** – Discussion: Water Board Joint Meeting Draft Agenda – A Draft Agenda for the May 3, 2016 Joint Meeting with the Water Board was included in the Handout on **Page 54**. The Executive Director requested that Board members contact him if they have comments or additions to the Agenda.

Agenda **Item 7** – Discussion: BAAQMD Joint Meeting Draft Agenda BAAQMD – Potential topics for the Spring 2016 Joint Meeting with BAAQMD was included in the Handout on **Page 55**. The BACWA AIR Committee will set up the joint meeting and are aiming for some time in June, 2016.

Agenda **Item 8** – Discussion: Integrated Regional Pilot Planning Project – A presentation was given by the Santa Clara Valley Water District (the District): Luis Jaimes, P.E., Senior Project Manager and Phillippe Daniel, P.E., HDR Program Manager. The District already owns and operates the Silicon Valley Advanced Water Purification Center which treats San Jose’s effluent using reverse osmosis. The District plans to greatly expand their recycled water program in the next five years. Mr. Jaimes gave an overview of the project and Mr. Daniel addressed their procurement approach for services moving forward. Due to the accelerated timeframe related to the drought, they are doing activities in parallel that would usually be done sequentially. The presentation can be viewed on the BACWA website in the Executive Board library.

Agenda **Item 9** – Discussion: Microplastics– Draft Concept #2, along with a flyer on the Lint LUV Washing Machine Discharge Filter, were included in the Handout on **Pages 56-58**. A proposal was taken to the EPA to determine if funding might be available to BACWA for the items in Draft Concept #2. The EPA is currently focused on funding implementation not research, and suggested that BACWA submit a proposal in the future when ready for implementation.

OTHER BUSINESS-OPERATIONAL

Agenda **Item 10** – Discussion: Succession Planning FY17– A copy of the FY16 Succession Plan was included in the Handout on **Pages 59-61**. Committee Leadership has been asked to provide recommendations for FY17. Recommendations already received for FY17 were highlighted on the document. The Executive Director noted that Staff will continue to collect recommendations from Committee Leaders and will request Board approval for FY17 recommendations.

Agenda Item 11 – Discussion: Drought/Recycling –

- a.** Prop 1 Proposal – A document on Proposal Concepts was included in the Handout on **Pages 62-63**. The Water Board is interested in assisting BACWA in soliciting funds for research on recycled water. There are two concepts being proposed in the document. The first would examine the use of reverse osmosis concentrate for nourishing tidal wetlands or an ecotone. This would address the issue of how to dispose of reverse osmosis concentrate that might contain pollutants at concentrations in excess of NPDES limits. The second concept would look at the impact of freshwater withdrawals from the Lower South Bay. SFEI is interesting in partnering with BACWA on either of these concepts. The District is also interested in participating, and supports the second concept. This issue will be added to the Agenda for the Joint meeting with the Water Board in May.
- b.** Surface Water Augmentation – A comment letter to the SWRCB from BACWA and WaterReuse on Surface Water Augmentation – Alternative Clause, along with a reply from the SWRCB, were included in the Handout on **Pages 64-67**. The Executive Director gave an overview of the issue and noted that the SWRCB suggested that comments be made during the comment period. The Recycled Water Committee noted that it was important to provide these comments prior to the publication of the SWA regulations. The Board thanked the Recycled Water Committee for their work on this letter.
- c.** SB163 (Hertzberg) – A copy of SB163 (Hertzberg) was included in the Handout on **Pages 68-75**. SB163 is proposed legislation that appears to require that 100% of wastewater currently discharged into the ocean be diverted. Future amendments may include wastewater currently discharged into the Bay. A previous bill mandated 50% of the discharge be recycled. It was noted that the bill has not been assigned to committee and may not reach committee this year. The Recycled Water Committee will continue to monitor progress on the legislation.
- d.** Recycled Water CCMP – A draft of the Recycled Water Actions in the CCMP was included in the Handout on **Pages 76-77**. The Regulatory Program Manager gave an overview of the draft and thanked the Recycled Water Committee for their work on it.
- e.** Statewide General Order – A Notice of Postponement of Public Hearing, along with a [LINK](#) to the Statewide General Order, were included in the Handout on **Page 78** and on the Agenda. EOA gave an overview of the history of the order and noted that the public hearing will most likely be rescheduled in May, 2016. There is concern that the Statewide General Order will be made mandatory for all recycled water permittees.

Agenda Item 12 – Discussion: Bay Planning Coalition Summit – Two emails, along with a flyer, on the Bay Planning Coalition Summit planned for May 6, 2016 were included in the Handout on **Pages 79-81**. These were included to alert the Board of the upcoming summit. The Executive Director has been invited to sit on a panel to discuss potential impacts of sea level rise on various infrastructure. BACWA was also asked to be an in-kind sponsor of the Summit. The ED asked if there were any concerns about BACWA being an in-kind sponsor seeing that there were no costs associated with being an in-kind sponsor and the only requirement was that BACWA would post the meeting announcement on its web site and inform its members. In

exchange BACWA would receive a complimentary ticket to the Summit. There were no concerns raised by the Board. Contact Sherry Hull if you are interested in the complimentary ticket. shull@bacwa.org.

REPORTS

Agenda **Item 13** – Committee Report – BACWA Committee Reports were included in the Handout on **Pages 82-85**.

AIR Committee: No meeting.

BAPPG: A report from the April 6, 2016 meeting was included in the Handout on **Pages 82-83**.

SFEI gave a presentation on CEC's and pesticides and will be coordinating pharmaceutical monitoring this summer. Agencies that wish to monitor their effluent for a range of 100-200 constituents can do so through SFEI. The cost will be \$1,500-\$2,000 per sample. There was also a presentation about concerns associated with pesticides fipronil and imidicloprid, as well as opportunities for regulatory engagement.

Biosolids Committee: No meeting.

Collections Committee: No meeting.

Asset Management InfoShare Group: No meeting.

Lab Committee: Lab committee met two days before the Executive Board meeting and was not able to get a report into the handout packet in time.

Operations and Maintenance InfoShare Group: No meeting.

Permits Committee: A report from the April 12, 2016 meeting was included in the Handout on **Pages 84-85**.

Pretreatment Committee: No meeting.

Recycled Water Committee: No meeting.

Agenda **Item 14** - Discussion: Member Highlights - Executive Board Representatives (Board) were given an opportunity to provide updates from each of the Principal agencies. Non-principal members were also given an opportunity to report out on behalf of their agencies. No actions were taken on the report-outs.

EBDA: No comments.

EBMUD: No comments.

Central Contra Costa: No comments.

San Francisco: EPA Enforcement continues to show interest in their Collection System.

San Jose: Are doing an operations update: BOD and alkalinity declining with less sewage going through their system.

DSRSD: No comments.

Petaluma: No comments.

Fairfield: No comments.

Agenda **Item 15** - The **Executive Director's Report**, along with the Board Calendar, BACWA Action Items, were included in the Handout on **Pages 86-95**. It was noted that 63 of the 69 action items from FY16 have been completed.

Agenda **Item 16** - The **Regulatory Program Manager (RPM) Report** was included in the Handout on **Page 96**.

Agenda **Item 17 - Other BACWA Representative Reports** – BACWA Representative were given an opportunity to provide updates. No actions were taken based on the reports.

- a. RMP-TRC: Rod Miller; Laura Pagano – No report.
- b. RMP Steering Committee: Karin North; Jim Ervin – No report.
- c. **Summit Partners: Dave Williams** – The Meeting Minutes from the September 14, 2015 Clean Water Summit Partners Meeting, and the Agenda and Meeting Minutes from the April 4, 2016 Meeting were included in the Handout on **Pages 97-102**. Additionally a memo from CASA on Advancing the Utility of the Future in California and a letter regarding SB 163 were included in the Handout on **Pages 103-116**. The Executive Director highlighted Hot Topics which include:
SCAP: SB 970 (Leyva) relating to funding for diversion of organics.
CWEA: AB 2890 (Committee on Environmental Safety) relating to operator certification.
BACWA: Microplastics, nutrients and watershed permit.
CASA: SB 163 (Hertzberg) which would ban ocean discharges; coordination with the Southern California Coastal Water Research Project; nutrient policy for freshwater wadeable streams.
CVCWA: Environmental Laboratory accreditation program, CECs, CV SALTS.
The Executive Director noted that the SSO White Paper was sent out today and is a good reference document. It is available on the BACWA website in the Collection Systems Library.
- d. **ASC/SFEI: Laura Pagano; Dave Williams** – An email regarding Comments on the Draft Delta RMP MOA was included in the Handout on **Page 117**. ASC will be entering into an MOA to oversee the conduct of the Delta RMP program.
- e. Nutrient Governance Steering Committee: Ben Horenstein; Jim Ervin – No report.
- f. SWRCB Nutrient SAG: Dave Williams – No report.
- g. SWRCB Focus Group – Bacterial Objectives: Lorien Fono; Amy Chastain – No report.
- h. SWRCB Focus Group – Mercury Amendments to the State Plan: Tim Potter – No report.
- i. Nutrient Technical Workgroup: Eric Dunlavey – No report.
- j. NACWA Taskforce on Dental Amalgam: Tim Potter – No report.
- k. BAIRWMP: Cheryl Munoz, Linda Hu, Dave Williams – No report.
- l. NACWA Emerging Contaminants: Karin North, Melody La Bella – No report.
- m. CASA Statewide Pesticide Steering Committee: Melody La Bella – No report.
- n. CASA State Legislative Committee: Lori Schectel – No report.
- o. CASA Regulatory Workgroup – No report.
- p. RMP Microplastics Liaison: Nirmela Arsem – No report.

- q. ReNUWIt: Mike Connor; Ben Horenstein – No report.
- r. AWT Certification Committee: Maura Bonnarens – No report.
- s. **Bay Area Regional Reliability Project:** Roger Bailey; Mike Connor – an email and Draft Agenda regarding the Drought Task Force Kickoff were included in the Handout on **Pages 118-125.**

Agenda Item 18: SUGGESTIONS FOR FUTURE AGENDA ITEMS: None.

ANNOUNCEMENTS:

The next regular meeting of the Board is scheduled for **May 20, 2016 from 9:00 am – 12:30 pm** at the **EBMUD Treatment Plant, Lab Library, 2020 Wake Ave., Oakland, CA.**

To receive a copy of any materials provided to the Board at a BACWA Executive Board meeting contact Sherry Hull at shull@bacwa.org.

The meeting adjourned at 12:23 pm.



MONTHLY TREASURER'S REPORT – MARCH 2016

Fund Balances

BACWA has seven funds of which three are operating funds (BACWA, Legal, and CBC) and four are pass-through funds for which BACWA provides only contract administration services. The four pass-through funds are not of particular concern as these funds simply track expenses and revenues to ensure that receipts are adequate to pay all expected expenses.

BACWA Fund: This fund provides the resources for BACWA staff, its committees, and other administrative needs. The ending fund balance was \$1,251,907 which is significantly higher than the target reserve of \$160,000 which is intended to cover 3 months of normal operating expenses. However, \$198,281 of the ending fund balance is already obligated to meet on-going operating line item expenses for BAPPG Committee Support, Legal services, IT services, Board meeting expenses, accounting services and BACWA staff support. This leaves an unobligated fund balance of \$1,053,626.

CBC Fund: This fund provides the resources for completing special investigations as well as meeting regulatory requirements. The ending fund balance was \$1,343,488 which is significantly higher than the target reserve of \$400,000. However, \$500,630 of the ending balance is obligated to meet line item expenses for completion of the Optimization/Upgrade Studies contract, the Risk Reduction contracts, and for technical support.

Legal Fund: This fund provides for needed legal services. The ending balance was \$300,717 which is slightly higher than the target reserve of \$300,000 due to interest from investments.

Annual Budget

The BACWA Annual Budget includes all expected revenues as well as budgeted expenses. Transfers are made from the BACWA Fund and/or the CBC Fund to balance the Annual Budget if expenses exceed revenues and vice versa. It is therefore important to achieve the anticipated revenues and not exceed the budgeted expenses on an annual basis in order to maintain the BACWA and CBC Fund balances at the levels projected in the 5 Year Plan.

Revenues as of March, 2016 (75% of the FY) are at 101%. This is not unexpected as agencies generally pay shortly after receiving their annual invoices early in the fiscal year.

Overall Expenses as of March, 2016 are at 71% and are tracking in accordance with the Annual Budget. Individual expense categories with a plus or minus 10% variance at this point in the fiscal year are as follows:

Labor: This category is only 64.12% expended at 75% of the FY due to invoices not being current.



MONTHLY TREASURER'S REPORT – MARCH 2016

Meetings: This category is under-expended (i.e. 61.92%) due largely to expenditures associated with the Annual Meeting not yet being recorded.

Legal Support: Budget of \$4,500 and expenditures to date of \$1,462 resulting in a favorable variance of \$3,038 due to a low need for legal administrative advice.

Committees: Budget of \$189,100 and expenditures to date of \$106,534 resulting in a favorable variance of \$82,566 due to no need to tap the Committee Contingency line item plus lower individual Committee expenditures.

Collaboratives: This category is 98.04% expended at 75% of the FY due to early payment of dues to FWQC, ReNUWIt, and CWCCG.

BACWA Revenues and Expenses (as of March 31, 2016, 75% of FY)

<u>BACWA FY16 BUDGET</u>	<u>Line Item Description</u>	<u>FY2016 Budget Amended</u>	<u>FY2016 Actuals Mar 2016</u>	<u>Actual % of Budget March 2016</u>	<u>Variance</u>	<u>NOTES</u>
<u>REVENUES & FUNDING</u>						
Principals' Contributions		\$468,180	\$468,180	100.00%	\$0	
Associate & Affiliate Contributions		\$171,639	\$173,199	100.91%	\$1,560	FY16: 2 New Members & 1 Member Cancelled
Fees	Clean Bay Collaborative	\$675,000	\$674,250	99.89%	-\$750	FY16: N. San Mateo has not paid CBC Fee of \$750.
	Nutrient Surcharge	\$600,000	\$600,608	100.10%	\$608	Actual invoiced: \$600,608
	Other (SFEI Carryforward)	\$86,779	\$86,779		\$0	SFEI Carryforward from FY15
Other Receipts						
	AIR Committee Phase-in	\$50,000	\$48,080	96.16%	-\$1,920	FY16: \$48,080 invoiced.
	AIR Non-Member	\$6,200	\$6,200	100.00%	\$0	
	BAPPG Non-Members	\$3,600	\$3,600	100.00%	\$0	
	Other	\$0	\$15,810			Reimb. Received from EBMUD for Sidestream Study
Fund Transfer	Special Program Admin Fees	\$2,500	\$2,438	97.52%	-\$62	WOT only
Interest Income	Funds	\$1,500	\$8,080	538.67%	\$6,580	FY16: Actuals includes BACWA, Legal, AIR & Nutrients Funds
	Total Revenue	\$2,065,398	\$2,087,224	101.06%	\$6,016	
<u>EXPENSES</u>						
	<u>Line Item Description</u>	<u>FY2016 Budget Amended</u>	<u>FY2016 Actuals Mar 2016</u>	<u>Actual % of Budget March 2016</u>	<u>Variance</u>	<u>NOTES</u>
Labor						
	Executive Director	\$183,498	\$122,332	66.67%	\$61,166	
	Assistant Executive Director	\$78,642	\$57,634	73.29%	\$21,008	
	Regulatory Program Manager	\$123,360	\$67,217	54.49%	\$56,143	Invoices running late
	Total	\$385,500	\$247,183	64.12%	\$138,317	
Administration						
	EBMUD Financial Services	\$40,000	\$26,965	67.41%	\$13,035	Accounting & Audit Services
	Administrative Expenses	\$7,500	\$2,771	36.95%	\$4,729	Travel, Supplies, Parking, Mileage, Tolls, Misc.
	Insurance	\$4,500	\$4,152	92.27%	\$348	
	Total	\$52,000	\$33,888	65.17%	\$18,112	
Meetings						
	EB Meetings	\$2,500	\$1,219	48.74%		7 of 10 meetings paid
	Annual Meeting	\$8,000	\$2,199	27.49%		Catering & Venue (Some Ann Mtg Invoices not rec'd yet)
	Pardee	\$5,000	\$5,753	115.06%		Catering & Venue
	Misc. (Summit Partners)	\$1,100	\$910	82.71%		Holiday Lunch and Committee Chair Lunch
	Total	\$16,600	\$10,278	61.92%	\$6,322	

BACWA Revenues and Expenses (as of March 31, 2016, 75% of FY)

	<u>Line Item Description</u>	<u>FY2016 Budget Amended</u>	<u>FY2016 Actuals Mar 2016</u>	<u>Actual % of Budget March 2016</u>	<u>Variance</u>	<u>NOTES</u>
Communication	Website Development/Maintenance					
	Website Hosting (Computer Courage)	\$600				
	File Storage (Box.net)	\$720				
	Website Development/Maintenance	\$1,200				Domains, website changes, Logo EPS file
	Subtotal	\$2,520				
	IT Support & Software					
	IT Support (As Needed)	\$2,000				
	Email (Office 365/MS Exchange)	\$480				
	Other Communication (Survey Monkey)	\$288				
	Subtotal	\$2,768				
	Total	\$5,288	\$3,840	72.62%	\$1,448	
Legal						
	Regulatory Support	\$2,500	\$70	2.80%	\$2,430	
	Executive Board Support	\$2,000	\$1,392	69.60%	\$608	
	Total	\$4,500	\$1,462	32.49%	\$3,038	
Committees						
	AIR	\$50,000	\$37,955	75.91%	\$12,045	
	BAPPG	\$86,000	\$63,451	73.78%	\$22,549	Includes CPSC @ \$10,000
	Biosolids Committee	\$3,100	\$446	14.39%	\$2,654	
	Collections System	\$10,000	\$750	7.50%	\$9,250	FY16 Actuals Includes \$500 in Venue Costs from FY15
	InfoShare Groups	\$1,000	\$737	73.70%	\$263	funds for 2 workgroups (Asset Mgmt & O&M)
	Laboratory Committee	\$6,000	\$2,291	38.19%	\$3,709	
	Permit Committee	\$1,000	\$0	0.00%	\$1,000	
	Pretreatment	\$1,000	\$904	90.40%	\$96	
	Recycled Water Committee	\$1,000	\$0	0.00%	\$1,000	
	Misc Committee Support	\$30,000	\$0	0.00%	\$30,000	
	Total	\$189,100	\$106,534	56.34%	\$82,566	

BACWA Revenues and Expenses (as of March 31, 2016, 75% of FY)

	<u>Line Item Description</u>	<u>FY2016 Budget Amended</u>	<u>FY2016 Actuals Mar 2016</u>	<u>Actual % of Budget March 2016</u>	<u>Variance</u>	<u>NOTES</u>
Collaboratives						
	Collaboratives					
	State of the Estuary (biennial)	\$0	\$0	0.00%	\$0	Biennial in Odd Years
	Arleen Navarret Award	\$1,000	\$0	0.00%	\$1,000	Biennial in Even Years
	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	
	Total	\$51,000	\$50,000	98.04%	\$1,000	
Tech Support	Technical Support					
	Nutrients					
	Watershed	\$880,000	\$870,000	98.86%	\$10,000	\$9,711 of FY16 requirement actually pd in FY15
	Additional work under permit	\$100,000	\$15,810	15.81%	\$84,190	analytical expense associated with EBMUD Sidestream EPA Grant
	Opt/Upgrade/Annual Reporting Studies	\$559,000	\$164,416	29.41%	\$394,584	
	Nutrient Program Coordination	\$50,000	\$100,000	200.00%	-\$50,000	\$100,000 paid to SFEI for Program Coord Pilot
	General Tech Support	\$50,000	\$64,432	128.86%	-\$14,432	SFEI agrmt bal: \$28,409.12.
	Chemicals of Concern	\$15,000	\$0	0.00%	\$15,000	Pesticide Mgmt support
	Risk Reduction	\$17,500	\$11,992	68.53%	\$5,508	Contracts executed for \$50k in FY16 to be paid over two years
	Total	\$1,671,500	\$1,226,650	73.39%	\$444,850	
	TOTAL EXPENSES	\$2,375,488	\$1,679,836	70.72%	\$695,652	
	NET INCOME BEFORE TRANSFERS	-\$310,090				5 Year Plan Est for FY 17 = \$298,736
	TRANSFERS FROM RESERVES	\$398,669				
	NET INCOME AFTER TRANSFERS	\$88,579				



Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

May 11, 2016

MEMO TO: Bay Area Clean Water Agencies Executive Board
MEMO FROM: D. Scott Klein, Controller, East Bay Municipal Utility District
SUBJECT: Ninth Month Treasurer's Report

As required by section eight of the Joint Powers Agreement establishing the Bay Area Clean Water Agencies (BACWA) and California Government Code Sections 6500 et seq., attached is the BACWA Treasurer's Report for the period covering **July 1, 2015 through March 31, 2016** (nine months of Fiscal Year 2015-2016). This report covers expenditures, cash receipts, and cash transfers for the following BACWA funds:

- Bay Area Clean Water Agencies (BACWA),
- BACWA Legal Reserve Fund (Legal Rsrv),
- Water Quality Attainment Strategy (WQA CBC),
- Air Issues and Regulation Group (AIR),
- Water/Wastewater Operator Training (WOT),
- Prop84 Bay Area Integrated Regional Water Mgmt (PRP84),
- Prop50 Bay Area Integrated Regional Water Mgmt (PRP50)

Fund Balances as of month end 03/31/16

DESCRIPTION	BEGINNING FUND BALANCE 07/1/15	TOTAL RECEIPTS	TOTAL DISBURSEMENTS	ENDING FUND BALANCE 03/31/16	OUTSTANDING ENCUMBRANCES	UNOBLIGATED FUND BALANCE 03/31/16
BACWA	1,006,959	650,071	405,123	1,251,907	198,281	1,053,626
LEGAL RSRV	300,000	717	-	300,717	-	300,717
CBC	1,243,029	1,279,497	1,179,078	1,343,448	500,630	842,818
AIR	10,171	54,351	37,955	26,568	14,046	12,522
GRAND TOTAL	2,560,159	1,984,636	1,622,156	2,922,639	712,957	2,209,682
WOT	45,463	124,672	130,500	39,635	-	39,635
TOTAL	45,463	124,672	130,500	39,635	-	39,635
PRP84	275,232	2,782,399	2,933,682	123,949	8,593	115,357
PRP50	561,537	99,016	510,022	150,531	7,360	143,171
TOTAL	836,769	2,881,416	3,443,704	274,481	15,953	258,528

BACWA Revenue Report for March 2016

FUND #	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					DIRECT	INVOICED	JVS	DIRECT	INVOICED	JVS	ACTUAL	
800	BACWA	1011099	Principal's Contributions	468,180	-	-	-	-	471,300	-	471,300	(3,120)
800	BACWA	1011133	Assoc.& Affiliate Contr	171,639	-	-	-	-	170,079	-	170,079	1,560
800	BACWA	0408511	Administrative & General	-	-	-	-	1,793	-	(1,793)	-	-
800	BACWA	1014251	Non-Member Contributions (BAPPG)	3,600	-	-	-	-	3,600	-	3,600	-
800	BACWA	1011109	Fund Transfers	2,500	-	-	-	-	-	2,438	2,438	62
800	BACWA	1011117	Interest Income	1,500	-	-	-	-	-	2,654	2,654	(1,154)
BACWA TOTAL				647,419	-	-	-	1,793	644,979	3,299	650,071	(2,652)
804	LEGAL	1011117	Interest Income	-	-	-	-	-	-	717	717	(717)
LEGAL TOTAL				-	-	-	-	-	-	717	717	(717)
802	AIR	1014250	Member Contributions	50,000	-	-	-	-	48,080	-	48,080	1,920
802	AIR	1014252	Non-Member Contributions (AIR)	6,200	-	-	-	-	6,200	-	6,200	-
802	AIR	1011117	Interest Income	-	-	-	-	-	-	71	71	(71)
AIR TOTAL				56,200	-	-	-	-	54,280	71	54,351	1,849
805	WQA-CBC	1011099	Member Contributions	675,000	-	-	-	-	674,250	-	674,250	750
805	WQA-CBC	1011108	Nutrient Surcharge	686,779	-	-	-	-	600,608	-	600,608	86,171
805	WQA-CBC	1011117	Interest Income	-	-	-	-	-	-	4,639	4,639	(4,639)
WQA CBC TOTAL				1,361,779	-	-	-	-	1,274,858	4,639	1,279,497	82,282
GRAND TOTAL				2,065,398	-	-	-	1,793	1,974,117	8,726	1,984,636	80,762
810	WOT	1011099	BDO Member Contributions	146,000	-	-	-	-	124,500	-	124,500	21,500
810	WOT	1011117	BDO Interest Income	-	-	-	-	-	-	172	172	(172)
WOT TOTAL				146,000	-	-	-	-	124,500	172	124,672	21,328

BACWA Expense Detail Report for March 2016

		AMENDED	CURRENT PERIOD				YEAR TO DATE					
EXPENSE TYPE	JOB	BUDGET	ENC	PV	DA	JV	ENC	PV	DA	JV	OBLIGATED	UNOBLIGATED
LABOR												
AS-Executive Director	1011123	183,498	-	-	-	-	61,166	122,332	-	-	183,498	-
AS-Assistant Executive Directo	1011124	78,642	(6,501)	6,501	-	-	21,008	57,634	-	-	78,642	-
AS-Regulatory Program Manager	1011149	123,360	-	-	-	-	56,143	67,217	-	-	123,360	-
ADMINISTRATION												
AS-EBMUD Administrative Servic	1011125	40,000	-	-	-	-	16,611	23,389	3,576	(10,107)	33,469	6,531
AS-BACWA Admin Expense	1011118	7,500	-	-	(1,090)	-	-	-	2,771	-	2,771	4,729
AS-Insurance	1011126	4,500	-	-	-	-	-	-	4,152	-	4,152	348
MEETINGS												
GBS- Meeting Support	1011122	16,600	(144)	144	658	-	389	611	9,667	-	10,667	5,933
COMMUNICATION												
CAR-BACWA Website Development/	1011116	7,088	(203)	203	755	-	3,452	1,548	2,293	-	7,292	(204)
LEGAL												
LS-Regulatory Support	1011107	2,500	-	-	-	-	2,430	70	-	-	2,500	-
LS-Executive Board Support	1011110	2,000	-	-	-	-	608	1,392	-	-	2,000	-
COMMITTEES												
AIR-Air Issues&Regulation Grp	1014253	50,000	(14,372)	14,372	-	-	14,046	37,955	-	-	52,000	(2,000)
BC-BAPPG	1011147	86,000	(3,325)	3,325	-	-	36,474	32,951	30,500	-	99,925	(13,925)
BC-Biosolids Committee	1011101	3,100	-	-	-	-	-	-	446	-	446	2,654
BC-Collections System	1011097	10,000	-	-	-	-	-	-	750	-	750	9,250
BC-InfoShare Groups	1011102	1,000	-	-	-	-	-	-	737	-	737	263
BC-Laboratory Committee	1011103	6,000	-	-	-	-	-	-	2,291	-	2,291	3,709
BC-Permit Committee	1011098	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Pretreatment Committee	1011146	1,000	-	-	-	-	-	-	904	-	904	96
BC-Water Recycling Committee	1011100	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Miscellaneous Committee Sup	1011104	30,000	-	-	-	-	-	-	-	-	-	30,000
COLLABORATIVES												
CAS-Arleen Navaret Award	1012201	1,000	-	-	-	-	-	-	-	-	-	1,000
CAS-FWQC	1012202	5,000	-	-	-	-	-	-	5,000	-	5,000	-
CAS-Stanford ERC	1011969	10,000	-	-	-	-	-	-	10,000	-	10,000	-
CAS-CWCCG	1011148	35,000	-	-	-	-	-	-	35,000	-	35,000	-
BACWA TOTAL		705,788	(24,545)	24,545	323	-	212,327	345,097	108,087	(10,107)	655,404	50,384
TECH SUPPORT												
WQA-CE Addl Work Under Permit	1014254	100,000	-	-	-	-	-	-	15,810	(15,810)	-	100,000
WQA-CE-Technical Support	1011127	136,779	-	-	-	-	28,409	62,932	1,500	(31,762)	61,079	75,700
WQA-CE CASA Chem of Concern	1011128	15,000	-	-	-	-	-	-	-	-	-	15,000
WQA-CE Opt-Upgrade Studies	1014255	559,000	-	-	-	-	434,213	164,416	-	-	598,629	(39,629)
WQA-CE Risk Reduction	1014023	17,500	(3,760)	3,760	-	-	38,008	11,992	-	-	50,000	(32,500)
WQA-CE-Nutrient WS Permit Comm	1014021	880,000	-	-	-	-	-	-	870,000	-	870,000	10,000
WQA-CE-Program Mgmt	1011131	50,000	-	-	100,000	-	-	-	100,000	-	100,000	(50,000)
TECH SUPPORT (CBC) TOTAL		1,758,279	(3,760)	3,760	100,000	-	500,630	239,340	987,310	(47,572)	1,679,708	78,571
GRAND TOTAL		2,464,067	(28,305)	28,305	100,323	-	712,957	584,437	1,095,397	(57,679)	2,335,112	128,955
WOT												
Administrative Support	1011142	2,500	-	-	-	-	-	-	-	-	-	2,500
BDO Contract Expenses	1011143	-	-	-	59,000	-	-	-	130,500	-	130,500	(130,500)
		2,500	-	-	59,000	-	-	-	130,500	-	130,500	(128,000)

BACWA Revenue Report for March 2016

DEPTID	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					DIRECT	INVOICED	JVS	DIRECT	INVOICED	JVS	ACTUAL	
811	Prop84BayAreaIntegRegnlWtrMgmt	1011117	BDO Interest Income	-	-	-	-	-	-	645	645	(645)
811	Prop84BayAreaIntegRegnlWtrMgmt	1011142	Administrative Support	-	-	12,389	-	-	48,819	-	48,819	(48,819)
811	Prop84BayAreaIntegRegnlWtrMgmt	1011705	Regional Green Infrastructure	-	-	160,930	-	-	218,765	-	218,765	(218,765)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012209	Water Efficient LRP	-	-	159,269	-	-	277,651	-	277,651	(277,651)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012210	Bay Friendly Landscape TP	-	-	19,569	-	-	33,344	-	33,344	(33,344)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012211	Weather Based Irrigation Cntrl	-	-	-	-	-	38,651	-	38,651	(38,651)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012212	High Efficiency Toilet & UR	-	-	-	-	-	605,681	-	605,681	(605,681)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012213	High Efficiency Toilet & UI	-	-	-	-	-	413,764	-	413,764	(413,764)
	Prop84BayAreaIntegRegnlWtrMgmt	1012214	High Efficiency Clothes Washrs	-	-	-	-	-	620,062	-	620,062	(620,062)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012215	Napa Co. Rainwater HP	-	-	32,542	-	-	42,101	-	42,101	(42,101)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012216	Conservation Program Admin	-	-	52,416	-	-	70,086	-	70,086	(70,086)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012219	Flood Infrastructure Mapping T	-	-	181,075	-	-	231,019	-	231,019	(231,019)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012220	Stormwater Improvements & PBP	-	-	9,344	-	-	26,815	-	26,815	(26,815)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012221	Richmond Shoreline & San PFP	-	-	15,485	-	-	15,485	-	15,485	(15,485)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012222	Pescadero Integrated FRAH	-	-	1,053	-	-	3,094	-	3,094	(3,094)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012223	Restoration Guidance, San FC	-	-	53,056	-	-	70,389	-	70,389	(70,389)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012224	SF Estuary Steelhead MP	-	-	39,218	-	-	52,756	-	52,756	(52,756)
811	Prop84BayAreaIntegRegnlWtrMgmt	1012225	Watershed Program Admnstrtn	-	-	9,425	-	-	13,273	-	13,273	(13,273)
	PROP 84 TOTAL			-	-	745,771	-	-	2,781,754	645	2,782,399	(2,782,399)
815	Prop50BayAreaIntegRegnlWtrMgmt	1011117	BDO Interest Income	-	-	-	-	-	-	477	477	(477)
	Prop50BayAreaIntegRegnlWtrMgmt	1011142	Administrative Support	-	-	12,475	-	-	32,287	-	32,287	(32,287)
815	Prop50BayAreaIntegRegnlWtrMgmt	1011543	EBMUD New Biz Guidebook	-	-	66,253	-	-	66,253	-	66,253	(66,253)
	PROP50 TOTAL			-	-	78,727	-	-	98,539	477	99,016	(99,016)
	GRAND TOTAL			-	-	824,498	-	-	2,880,293	1,122	2,881,416	(2,881,416)

BACWA Expense Detail Report for March 2016

DEPTID	DEPARTMENT	EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
				ENC	PV	DA	JV	ENC	PV	DA	JV		
811	Prop84BayAreaIntegRegnlWtrMgmt	BDO Fund Transfers	-	-	-	-	-	-	-	-	2,057	2,057	(2,057)
811	Prop84BayAreaIntegRegnlWtrMgmt	Administrative Support	-	-	-	-	-	-	-	191,317	-	191,317	(191,317)
811	Prop84BayAreaIntegRegnlWtrMgmt	BDO Contract Expenses	-	-	-	-	-	8,593	7,373	-	-	15,965	(15,965)
811	Prop84BayAreaIntegRegnlWtrMgmt	Regional Green Infrastructure	-	-	-	160,930	-	-	-	218,765	-	218,765	(218,765)
811	Prop84BayAreaIntegRegnlWtrMgmt	Water Efficient LRP	-	-	-	159,269	-	-	-	277,651	-	277,651	(277,651)
811	Prop84BayAreaIntegRegnlWtrMgmt	Bay Friendly Landscape TP	-	-	-	19,569	-	-	-	33,344	-	33,344	(33,344)
811	Prop84BayAreaIntegRegnlWtrMgmt	Weather Based Irrigation Cntrl	-	-	-	35,155	-	-	-	38,651	-	38,651	(38,651)
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Toilet & UR	-	-	-	399,383	-	-	-	605,681	-	605,681	(605,681)
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Toilet & UI	-	-	-	343,226	-	-	-	413,764	-	413,764	(413,764)
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Clothes Washrs	-	-	-	417,807	-	-	-	620,062	-	620,062	(620,062)
811	Prop84BayAreaIntegRegnlWtrMgmt	Napa Co. Rainwater HP	-	-	-	32,542	-	-	-	42,101	-	42,101	(42,101)
811	Prop84BayAreaIntegRegnlWtrMgmt	Conservation Program Admin	-	-	-	52,416	-	-	-	70,086	-	70,086	(70,086)
811	Prop84BayAreaIntegRegnlWtrMgmt	Flood Infrastructure Mapping T	-	-	-	181,075	-	-	-	231,019	-	231,019	(231,019)
811	Prop84BayAreaIntegRegnlWtrMgmt	Stormwater Improvements & PBP	-	-	-	9,344	-	-	-	26,815	-	26,815	(26,815)
811	Prop84BayAreaIntegRegnlWtrMgmt	Richmond Shoreline & San PFP	-	-	-	15,485	-	-	-	15,485	-	15,485	(15,485)
811	Prop84BayAreaIntegRegnlWtrMgmt	Pescadero Integrated FRAH	-	-	-	1,053	-	-	-	3,094	-	3,094	(3,094)
811	Prop84BayAreaIntegRegnlWtrMgmt	Restoration Guidance, San FC	-	-	-	53,056	-	-	-	70,389	-	70,389	(70,389)
811	Prop84BayAreaIntegRegnlWtrMgmt	SF Estuary Steelhead MP	-	-	-	39,218	-	-	-	52,756	-	52,756	(52,756)
811	Prop84BayAreaIntegRegnlWtrMgmt	Watershed Program Admnstrtn	-	-	-	9,425	-	-	-	13,273	-	13,273	(13,273)
	PRP84 TOTAL		-	-	-	1,928,953	-	8,593	7,373	2,924,252	2,057	2,942,275	(2,942,275)
815	Prop50BayAreaIntegRegnlWtrMgmt	BDO Fund Transfers	-	-	-	-	-	-	-	-	381	381	(381)
815	Prop50BayAreaIntegRegnlWtrMgmt	BDO Contract Expenses	-	-	-	-	-	7,360	2,254	-	-	9,614	(9,614)
815	Prop50BayAreaIntegRegnlWtrMgmt	EBMUD New Biz Guidebook	-	-	-	67,500	-	-	-	67,500	-	67,500	(67,500)
815	Prop50BayAreaIntegRegnlWtrMgmt	South Bay Advanced Regional RW	-	-	-	-	-	-	-	292,087	-	292,087	(292,087)
815	Prop50BayAreaIntegRegnlWtrMgmt	Pacifica RWP	-	-	-	-	-	-	-	74,440	-	74,440	(74,440)
815	Prop50BayAreaIntegRegnlWtrMgmt	Direct Install HET	-	-	-	-	-	-	-	36,680	-	36,680	(36,680)
815	Prop50BayAreaIntegRegnlWtrMgmt	Sonoma - Napa Marsh RWP	-	-	-	-	-	-	-	36,680	-	36,680	(36,680)
	PRP50 TOTAL		-	-	-	67,500	-	7,360	2,254	507,387	381	517,382	(517,382)
GRAND TOTAL			-	-	-	1,996,453	-	15,953	9,626	3,431,640	2,438	3,459,657	(3,459,657)



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 3

FILE NO.: 17-01

MEETING DATE: May 20, 2016

TITLE: Nomination and Election of BACWA Executive Board Chair and Vice Chair

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Nomination and election of the BACWA Executive Board Chair and Vice Chair.

SUMMARY

Section 7 of the Joint Powers Agreement establishing BACWA states that the agency shall designate a Chair and Vice Chair, chosen by the Executive Board, from the members of the Executive Board. These positions each have a one year term that coincides with BACWA's fiscal year. Historically, most BACWA Chairs and Vice Chairs are asked to serve for two consecutive terms.

Responsibilities of the Chair include signing contracts, approving payments, convening and presiding over Executive Board meetings, and serving on the BACWA Finance Committee. Responsibilities of the Vice Chair include serving as the Chair in the absence of the regularly elected Chair and serving on the BACWA Finance Committee.

BACWA Leadership History

Timeframe

2000 – 2002

2002 – 2004

2004 – Feb. 2005

March 2005 – June 2005

July 2005 – June 2006

July 2006 – May 2007

June 2007 – June 2008

July 2008 – March 2010

April 2010 – June 2010

July 2010 – October 2010

Nov. 2010 – Feb. 2013

March 2013 – June 2015

July 2015 – Present

Chair

Chuck Weir (EBDA)

Jim Kelly (CCCSO)

Michael Carlin (SFPUC)

Dave Williams (EBMUD)

Bill Keaney (SFPUC)

Bill Keaney (SFPUC)

Dave Williams (EBMUD)

Dave Tucker (San Jose)

Dave Tucker (San Jose)

Arleen Navarret (SFPUC)

Ben Horenstein (EBMUD)

Mike Connor (EBDA)

Laura Pagano (SFPUC)

Vice-Chair

Jim Kelly (CCCSO)

Michael Carlin (SFPUC)

Dave Williams (EBMUD)

Bill Keaney (SFPUC)

Chuck Weir (EBDA)

Dave Williams (EBMUD)

Dave Tucker (San Jose)

Doug Craig (CCCSO)

Arleen Navarret (SFPUC)

Ben Horenstein (EBMUD)

Tommy Moala/Laura Pagano (SFPUC)

Laura Pagano (SFPUC)

Jim Ervin (San Jose)

FISCAL IMPACT

This action has no fiscal impact.

ALTERNATIVES

This action does not require consideration of alternatives.



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 4

FILE NO.: 17-02

MEETING DATE: May 20, 2016

TITLE: BACWA FY 17 Committee Leadership and Representatives

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Confirm the appointment of BACWA Committee Leaders and Representatives for FY17.

SUMMARY

BACWA accomplishes much of its mission through the hard work and efforts of its volunteers. As the governing body of the BACWA organization, the Board can demonstrate its support of the individuals who volunteer to lead committee activities or represent BACWA in a variety of local, regional, state and national initiatives by confirming the appointment of these individuals to their respective positions within the BACWA organization. The BACWA Committees have submitted proposed leadership names for FY17. Additionally, BACWA Members serve on nineteen other committees and groups as BACWA Representatives. By confirming these appointments the leadership and representation for BACWA for FY 17 will be officially established.

FISCAL IMPACT

This action has no fiscal impact.

ALTERNATIVES

This action does not require consideration of alternatives.

Attachment: FY17 Succession Plan

Approved:

Date:

Laura Pagano, Chair
BACWA

**BAY AREA CLEAN WATER AGENCIES
SUCCESSION PLANNING
Fiscal Year 2017
DRAFT**

A. BACWA Principal Representation**Changes**

Agency	Representative	Title & Roles
EBMUD	Ben Horenstein	ReNUWIt Industrial Advisory Committee Member Nutrient Governance Steering Committee
	Vincent De Lange (Alternate)	
	Maura Bonnarens (Alternate)	AWT Certification Committee Representative
SFPUC	Laura Pagano	BACWA, Chair BACWA, Finance Committee BACWA, Ad Hoc Conflict of Interest Committee Joint ASC/SFEI, Board Representative Summit Partners Representative
	Tommy Moala (Alternate)	
	Lori Regler (Alternate)	
	Amy Chastain (Alternate)	SWRCB Focus Group-Bacterial Objectives
City of San Jose	Jim Ervin	BACWA, Vice-Chair BACWA Finance Committee Joint ASC/SFEI, Board Alternate RMP Steering Committee Nutrient Governance Steering Committee
	Joanna De Sa (Alternate)	
EBDA	Mike Conner	BACWA, Ad Hoc Conflict of Interest Committee BARR Board Alternate ReNUWIt Industrial Advisory Committee Member
	David Stoops, EBDA (Alternate)	Co-Chair, Info Share Ops/Maint Committee
	Jason Warner, Oro Loma (Alternate)	
CCCSD	Roger Bailey	BARR Board Representative
	Lori Schectel (Alternate)	CASA State Legislative Committee
	Jean-Marc Petit (Alternate)	

Changes to Principal Representation require submission of a Statement of Economic Interest Form within 30 days

B. Other BACWA Representation

Agency	Representative	Notes
RMP Technical Committee	Rod Miller, SFPUC	
RMP Steering Committee	Karin North, Palo Alto; Dan Tafolla, VSFCDD; Jim Ervin, City of San Jose	BACWA, Vice-Chair
Summit Partners	Dave Williams; Laura Pagano, SFPUC	BACWA Executive Director BACWA, Chair
Joint SFEI/ASC Board	Laura Pagano, SFPUC; Dave Williams	BACWA, Chair BACWA Executive Director
		One seat on loan from BACWA to Sac Regional
Nutrient Governance Steering Committee	Ben Horenstein, EBMUD; Jim Ervin, City of San Jose	BACWA Board Representative BACWA, Vice-Chair
SWRCB Nutrient SAG	Dave Williams	BACWA Executive Director
SWRCB Focus Group – Bacterial Objectives	Lorien Fono, BACWA; Amy Chastain, SFPUC	BACWA Regulatory Program Manager BACWA Board Alternate
SWRCB Focus Group – Mercury Amendments to the State Plan	Tim Potter, CCCSD	Co-Chair, Pretreatment Committee
Nutrient Technical Workgroup	Eric Dunlavey, City of San Jose	
NACWA Taskforce on Dental Amalgam	Tim Potter, CCCSD	Co-Chair, Pretreatment Committee
BAIRWMP	Cheryl Munoz, SFPUC; Linda Hu, EBMUD; Dave Williams, BACWA	BACWA Executive Director
NACWA Emerging Contaminants	Karin North, Palo Alto; Melody LaBella, CCCSD	
CASA Statewide Pesticide Steering Committee	Melody LaBella, CCCSD	
CASA State Legislative Committee	Lori Schectel, CCCSD	BACWA Board Alternate
CASA Regulatory Workgroup	Lorien Fono, BACWA	BACWA Regulatory Program Manager
ReNUWIt	Mike Connor, EBDA; Ben Horenstein, EBMUD	BACWA Board Representative BACWA Board Representative
RMP Microplastics Liaison	Nirmela Arsem, EBMUD	
AWT Certification Committee	Maura Bonnarens, EBMUD	BACWA Board Alternate
Bay Area Regional Reliability Project	Roger Bailey, CCCSD; Mike Connor, EBDA	BACWA Board Representative BACWA Board Representative
Principals Changes		

C. BACWA Committees

Committee	Chair	Vice/Co-Chair	Comments
AIR	Nohemy Revilla, SFPUC, Co-Chair	Randy Schmidt, CCCSD, Co-Chair	Represents BACWA on CWCCG. No change in FY17
BAPPG	Robert Wilson, Petaluma, Co-Chair	James Parrish, Regional Water Board, Co-Chair Doug Dattawalker, Union San (EBDA), Vice-Chair	
Biosolids	Alicia Chakrabarti, EBMUD, Chair	Karla Guevarra, SFPUC, Vice-Chair	No change in FY17
Collection Systems	Justin Waples, CCCSD	Erin Smith, City of Alameda, Vice-Chair	
Info Share Ops/Maint	David Stoops, EBDA, Co-Chair	Joaquin Gonzalez, Delta Diablo, Co-Chair	
InfoShare Asset Mgmt	Dana Lawson, CCCSD Co-Chair	Dillon Cowan, EBMUD Co-Chair	
Laboratory	Nirmela Arsem, EBMUD, Chair	Noel Enoki, San Jose, Vice-Chair	No change in FY17
Permits	Amada Roa, Delta Diablo, Co-Chair	Eric Dunlavey, San Jose, Co-Chair	No change in FY17
Pretreatment	Kirsten Struve, Palo Alto Co-Chair	Tim Potter, CCCSD Co-Chair	No change in FY17
Recycled Water	Rhodora Biagtan, DSRSD, Co-Chair	Leah Walker, City of Petaluma, Co-Chair	Coordinates with IRWMP No change in FY17
Principals Changes			



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 5a & 5b

FILE NO.: 17-03 & 17-04

MEETING DATE: May 20, 2016

TITLE: Approval of Fiscal Year 2017 Contracts

☐ RECEIPT ☐ DISCUSSION ☐ RESOLUTION ☒ APPROVAL

RECOMMENDED ACTION

Authorize the approval of amendments to contracts to implement the Fiscal Year 2017 BACWA/CBC Budget and Workplan.

SUMMARY

The BACWA Fiscal Year 2017 begins July 1, 2016. In order to prevent a gap in core services, BACWA typically executes contracts for the coming FY before the end of June. The amendments summarized below will ensure that, as of July 1, 2016 BACWA has Executive Director (ED) and Assistant Executive Director (AED) services. Both of these contracts were included in the BACWA FY 2017 workplan and budget and will become effective July 1, 2016. All contracts have a term of one year and will terminate on June 30, 2017.

Contractor	Services	Contract Amount	File Number
a. DRW Engineering (Amendment #2)	Executive Director Services	\$189,370.00	17-03
b. Sherry Hull (Amendment #1)	Assistant Executive Director Services	\$85,000.00	17-04

FISCAL IMPACT

The funding for these contracts is consistent with the FY 2017 Workplan and Budget for BACWA/CBC.

ALTERNATIVES

No other alternatives were considered for these contracts as the terms of these agreements are consistent with BACWA contracting policies.

Attachments:

1. DRW Engineering Amendment #2
2. Sherry Hull Amendment #1

Approved:

Date:

Laura Pagano, Chair
BACWA

**AMENDMENT NO. 2
TO AGREEMENT BETWEEN
BAY AREA CLEAN WATER AGENCIES AND
David R. Williams (dba DRW Engineering)
FOR
Executive Director Services**

This Amendment No. 2 is made this 20th day of May, 2016, in the City of Oakland, County of Alameda, State of California, to that certain agreement of July 1, 2014 by and between David R. Williams (dba DRW Engineering) and Bay Area Clean Water Agencies, (BACWA) (the "Agreement") in consideration of the covenants hereinafter set forth.

1. BACWA and DRW Engineering agree to a new contract amount of \$189,370 for Executive Director Services.
2. BACWA and DRW Engineering agree to a new period of July 1, 2016 – June 30, 2017.
3. Except as herein expressly modified, the Agreement will remain in full force and effect.

BAY AREA CLEAN WATER AGENCIES

By _____ Date _____
Laura Pagano, Chair, Executive Board

David R. Williams (dba DRW Engineering)

By _____ Date _____

**AMENDMENT NO. 1
TO AGREEMENT BETWEEN
BAY AREA CLEAN WATER AGENCIES AND
Sherry A Hull
FOR
Assistant Executive Director Services**

This Amendment No. 1 is made this 20th day of May, 2016, in the City of Oakland, County of Alameda, State of California, to that certain agreement of July 1, 2015 by and between Sherry A Hull and Bay Area Clean Water Agencies, (BACWA) (the "Agreement") in consideration of the covenants hereinafter set forth.

1. BACWA and Sherry A Hull agree to a new contract amount of \$85,000.00 for Assistant Executive Director Services.
2. BACWA and Sherry A Hull agree to a new period of July 1, 2016 – June 30, 2017.
3. Except as herein expressly modified, the Agreement will remain in full force and effect.

BAY AREA CLEAN WATER AGENCIES

By _____
Laura Pagano, Chair, Executive Board

Date _____

Sherry A Hull

By _____

Date _____



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 6

FILE NO.: 17-05

MEETING DATE: May 20, 2016

TITLE: Regulatory Program Manager Services Agreement Fiscal Year 2017

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Approve an agreement in the amount of \$112,500 with Lorien Fono to provide Regulatory Program Manager services in FY17.

SUMMARY

Over the past three years Lorien Fono has successfully served as the BACWA RPM under an agreement with PME consulting engineers. With the expiration of the PME agreement at the end of FY 16, BACWA began a selection process in March 2016 to ensure that a new RPM contract would be in place by the end of FY 16 thereby ensuring uninterrupted services to the BACWA membership. The selection process resulted in Dr. Lorien Fono, as an individual consultant, being chosen to serve as the BACWA RPM. In accordance with the BACWA contracting policy, the new agreement termination date may be extended for additional years, at BACWA's discretion, with amendments to the agreement.

FISCAL IMPACT

Funds for the agreement are available in the BACWA FY17 Budget under line item Labor/Regulatory Program Manager.

ALTERNATIVES

Do not fund the position: This alternative is not recommended since BACWA has evaluated the position for three years and the Board has determined that the work is important and necessary.

Reissue the Request for Proposal: This is not recommended since Lorien Fono was deemed to have the needed qualifications for providing the Regulatory Program Manager services and proposed a cost that was within the recommended level of effort for the position.

Attachments:

Contract

Scope of Work

Approved:

Date:

Laura Pagano, Chair
BACWA

**BAY AREA CLEAN WATER AGENCIES
PROFESSIONAL SERVICES CONTRACT
*Regulatory Program Manager***

This PROFESSIONAL SERVICES CONTRACT, effective July 1, 2016, is between Bay Area Clean Water Agencies ("BACWA"), a joint powers agency which exists as a public entity separate and apart from its Member Agencies, created January 4, 1984 by a Joint Powers Agreement between Central Contra Costa Sanitary District, East Bay Dischargers Association, East Bay Municipal Utility District, the City and County of San Francisco and the City of San Jose, with a mailing address of P.O. Box 24055, MS 59, Oakland, CA 94623, and Lorien Fono ("Consultant"), an individual doing business at 1717 Rose Street, Berkeley, CA 94703, for professional services as described in any Exhibit A attached hereto.

In consideration of the mutual covenants, stipulations and agreements, the parties agree as follows:

1. Consultant will perform the Services as described by and in accordance with Exhibit A in a manner acceptable to BACWA. This work will be performed at the direction and under the supervision of the Executive Director.
2. Consultant shall not contract with or otherwise use any subconsultants, subcontractors or other non-employee persons or entities ("Subconsultants") to perform the Services without the prior written approval of BACWA. If Consultant and BACWA agree that Subconsultants shall be used, Consultant shall ensure Subconsultants' compliance with all the terms and conditions of this agreement.
3. BACWA will pay Consultant for services at an hourly rate of \$90.00 for a maximum of 1,250 hours, up to a maximum annual amount of \$112,500.00 for the 2017 fiscal year. Consultant will not exceed the maximum amount payable without obtaining prior written approval from BACWA. Any future increases shall be implemented via an amendment to this contract.
4. BACWA agrees to reimburse Consultant for actual and reasonable job-related expenses necessary to carry out the work. This includes, but is not limited to, travel expenses for BACWA-related meetings and events, and the cost of attending trainings necessary for the Consultant to act as the Regulatory Program Manager. Travel to meetings, events and trainings outside of the San Francisco Bay and Sacramento Area must be approved by the Executive Director in advance.
5. Consultant shall submit invoices on a monthly basis. Payments under this Contract will be due thirty (30) days after BACWA's receipt of invoices. BACWA may withhold from any progress or final payment any damages, backcharges or claims incurred or anticipated by BACWA to the extent caused by Consultant.
6. Consultant will maintain all records relating to this Contract in accordance with generally accepted accounting principles and for at least three years following termination of this Contract. Consultant will grant BACWA and its representatives access upon request to all such records and all other books, documents, papers, drawings, and writings of Consultant that refer or relate to this Contract.
7. All drawings, specifications, reports, programs, manuals, and other work product of Consultant that result from this Contract ("Work Product") will be considered the exclusive property of BACWA. Consultant agrees that it will not use, disclose, communicate, publish or otherwise make available to third parties any products, analyses, data, compilations,

studies, proposals, technical or business information, and any other information related to the Services provided to BACWA without BACWA's prior written approval.

8. The Consultant expressly agrees to indemnify, defend and hold BACWA, its officers, and directors, free and harmless from and against any and all loss, liability, expense, claims, costs, suits and damages, including attorney's fees, arising out of negligence of the Consultant's work and or performance under this Contract, excepting only such injury or damage as may be caused by the negligence of BACWA.
9. This contract shall automatically terminate on June 30, 2017. Either party may also terminate this Contract in whole or in part at any time for its convenience. For a termination for convenience, the termination will be effective thirty (30) days following receipt of a written notice of termination by one party from the other.

This Contract constitutes the entire, legally binding contract between the parties regarding its subject matter. No waiver, consent, modification or change of terms of this Contract is binding unless in writing and signed by both parties.

The following document is incorporated into and made a part of this Contract. Any conflicts between this document and this Contract will be resolved in favor of this Contract.

Exhibit A – Scope of Work

CONSULTANT:

Lorien Fono

1717 Rose Street

Street Address

Berkeley, CA 94703

City, State, Zip Code

Tax Identification No.

Consultant Signature

Date

Lorien Fono, Regulatory Program Manager

Name, Title

BACWA Signature

Date

Laura Pagano, BACWA Executive Board Chair

Name, Title

Exhibit A
BACWA REGULATORY PROGRAM MANAGER
SCOPE OF WORK

CONSULTANT will act as the Regulatory Program Manager and provide professional services at the direction of the BACWA Executive Director to support BACWA and its Special Programs at a rate of \$90.00/hour for a maximum of 1,250 hours consistent with the following key activities:

Scope of Work

The contractor applicant selected will work under the direction of the BACWA Executive Director to assist with some or all of the following:

- Track and summarize water quality regulations and policies affecting BACWA member agencies;
- Monitor regulatory issues and assist in the preparation of comment letters on key regulations;
- Coordinate and participate in meetings with regulatory agencies, including the State Water Resources Control Board, the San Francisco Bay Regional Water Quality Control Board, and the Bay Area Air Quality Management District;
- Attend and report to the Executive Board on public and industry meetings, including but not limited to environmental stakeholder groups, regulatory tasks forces and workgroups, scientific organizations and BACWA Committee Meetings;
- Coordinate with other professional associations including CASA and NACWA;
- Provide support for designated BACWA committees and workgroups;
- Manage communications with the membership through the monthly BACWA Bulletin and the BACWA website;
- Assist the Executive Director with contract and program management, and with other related tasks as requested.



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 7

FILE NO.: 17-06

MEETING DATE: May 20, 2016

TITLE: Approval of Amendment #2 to Optimization/Upgrade Contract with HDR

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Approve Amendment No. 2 to the HDR contract 13,397 approved on September 9, 2014 in the amount of \$12,000.00 for presenting more detailed cost information that will better differentiate the costs for nutrient reductions.

SUMMARY

HDR currently has a lump sum contract to complete the Optimization/Upgrade studies required by the Nutrient Watershed Permit. On May 15, 2015 the Board approved Amendment No. 1 in the amount of \$80,000 to the contract to add a scope of work item for preparing a cost estimate for achieving a no net loading increase of nutrient loadings from POTWs. Amendment No. 2 will add a scope of work item to provide more detailed cost estimates that further will differentiate the cost for the type of nutrient removed. This will make the Optimization/Upgrade Report a better reference document if future management actions are needed for nutrient reductions.

FISCAL IMPACT

This amendment was not included in the original lump sum contract for the HDR work but adequate funds are available in the BACWA budget under a line item for additional work needed on the Nutrient Watershed Permit.

ALTERNATIVES

The Alternative is to not approve this Amendment. This is not recommended as the cost information resulting from this additional scope of work will be helpful in informing future regulations.

Attachments: Scope of Work

Approved:

Date:

Laura Pagano, Chair
BACWA

SCOPE OF WORK

1. Consultant to provide the TN only and TP only capital costs for the recommended optimization strategy, sidestream recommendation, and the Level 2 and 3 upgrades.
2. Work includes manipulation of existing cost building blocks (for each plant) to calculate and extract the needed cost information which will be provided in the individual POTW reports as well as the summary tables
3. Consultant will update the reports and provide some explanatory text and footnotes to explain what the stand alone TN and TP costs represent.
4. Consultant will compile the reports, QC the new information, and resubmit it to each agency.



EXECUTIVE DIRECTOR AUTHORIZATION

AGENDA NO.: 8a

FILE NO.: 17-07

DATE: May 20, 2016

TITLE: Executive Director Authorization for Agreement with Downey Brand, LLP for Regulatory Legal Support in FY17

RECOMMENDED ACTION

BACWA Executive Director authorization for an agreement with Downey Brand, LLP., in an amount not to exceed \$2,500, to provide regulatory legal counsel for the period of July 1, 2016 – June 30, 2017.

SUMMARY

The Fiscal Year 2017 BACWA budget, approved by the BACWA Executive Board on April 15, 2016, included a \$2,500 line item for regulatory legal counsel services.

This agreement with Downey Brand would provide as needed regulatory legal support for BACWA for FY17.

FISCAL IMPACT

For FY17, \$2,500 of the total contract value will be funded by the Regulatory Legal line item in the approved FY16 BACWA budget.

ALTERNATIVES

No other alternatives were considered as this action is consistent with BACWA contracting policies.

Attachments:

1. Downey Brand Scope of Work
2. Downey Brand Rate Sheet

David R. Williams

Approved: _____

David R. Williams, P.E.
BACWA Executive Directory

Date: May 20, 2016

EXHIBIT A

SCOPE OF

WORK

Professional Services by **Downey Brand**
LLP
Fiscal Year 2017

Downey Brand LLP agrees to provide legal advice and counsel to BACWA upon written request by the BACWA Executive Director or the Assistant Executive Director, the total costs of which are **not to exceed \$2,500.**

Exhibit B

Downey Brand LLP

2016-2017 Hourly Rates for
BACWA

Melissa Thorne	\$370 (discounted from standard rate)
Nicole Granquist	\$370 (discounted from standard rate)
Associates	\$225-330 (depending on associate's years of experience)
Paralegal Assistance	\$195
Document clerks	\$95

Costs

Transportation, Parking, Lodging, Tolls (for approved travel) - actual cost per receipt
For large copy jobs, regular BW copies - \$0.10 per page; color copies - \$0.20 per page
Postage/Overnight mail service - actual cost
Mileage: current IRS rule rate
Courier: actual cost per receipt
Duplication to CD/DVD: \$5.00 per CD/DVD



EXECUTIVE DIRECTOR AUTHORIZATION

AGENDA NO.: 8.b

FILE NO.: 17-08

DATE: May 20, 2016

TITLE: Executive Director Authorization for Agreement with Day Carter Murphy for Executive Board Legal Support in FY17

ACTION

Executive Director Authorization to execute an agreement with Day Carter Murphy LLP in an amount not to exceed \$2,000.00 to continue to provide as needed legal counsel to BACWA during the period of July 1, 2016 – June 30, 2017.

SUMMARY

This contract will allow Day Carter Murphy to continue to provide legal support on an as needed basis, upon request from the BACWA Executive Board, Executive Director and/or Assistant Executive Director.

FISCAL IMPACT

This project is included in the approved Fiscal Year 2017 Budget and Workplan and funds are available.

ALTERNATIVES

No other alternatives were considered as this action is consistent with BACWA contracting policies

Attachments:

1. Scope for DCM
2. Rate Sheet for DCM

Approved: David R. Williams
David R. Williams, P.E.
BACWA Executive Director

Date: May 20, 2016

EXHIBIT A

SCOPE OF WORK

Professional Services by
Day Carter & Murphy LLP
Fiscal Year 2016-17

Day Carter & Murphy LLP agrees to provide legal advice and counsel to BACWA upon written request by the BACWA Executive Director or the Assistant Executive Director, the total annual costs of which are **not to exceed \$2,000.**

EXHIBIT B

HOURLY RATES/REIMBURSABLE EXPENSES

Day Carter Murphy

FY 2016-17

James M. Day Jr.	\$340.00 per hour
Ralph R. Nevis	\$320.00 per hour
Joshua L. Baker	\$320.00 per hour



EXECUTIVE DIRECTOR AUTHORIZATION

AGENDA ITEM NO.: 8c

FILE NO.: 17-09

DATE: May 20, 2016

TITLE: Executive Director Authorization for Agreement with Cayuga Information Systems for IT Support in FY17

ACTION

Executive Director Authorization to execute an agreement with Cayuga Information Systems in an amount not to exceed \$2,600.00 to continue to provide as needed IT Services to BACWA during the period of July 1, 2016 – June 30, 2017.

SUMMARY

This Amendment to the Agreement dated July 9, 2015 will allow Cayuga Information Systems to continue to provide IT support on an as needed basis, upon request from the BACWA Executive Director, Regulatory Program Manager, and/or Assistant Executive Director.

FISCAL IMPACT

This project is included in the approved Fiscal Year 2017 Budget and Workplan and funds are available.

ALTERNATIVES

No other alternatives were considered as this action is consistent with BACWA contracting policies

Attachments:

1. Amendment
2. Scope & Rates

Approved: David R. Williams
David R. Williams, P.E.
BACWA Executive Director

Date: May 20, 2016

**AMENDMENT NO. 1
TO AGREEMENT BETWEEN
BAY AREA CLEAN WATER AGENCIES AND
Cayuga Information Systems
FOR
IT Services**

This Amendment No. 1 is made this 20th day of May, 2016, in the City of Oakland, County of Alameda, State of California, to that certain agreement of July 9, 2015 by and between Cayuga Information Systems and Bay Area Clean Water Agencies, (BACWA) (the "Agreement") in consideration of the covenants hereinafter set forth.

1. BACWA and Cayuga Information Systems agree to a new not to exceed amount of \$2,600.00 for IT Services.
2. BACWA and Cayuga Information Systems agree to a new period of July 1, 2016 – June 30, 2017.
3. Except as herein expressly modified, the Agreement will remain in full force and effect.

BAY AREA CLEAN WATER AGENCIES

By
Laura Pagano, Chair, Executive Board

Date

Cayuga Information Systems

By
Larry Tubbs

Date

CAYUGA INFORMATION SYSTEMS

Attachment A

FY17 SCOPE

Task 1. Provide As-Needed IT Assistance to BACWA Staff.

Attachment B

FY17 Rates and Terms of Payment

- Hourly Rate: \$90.00 for onsite or over the phone assistance.
- One hour minimum for field service calls.
- Travel Time: No charge for travel within 45 minutes of Martinez Office.
- Expenses: Reimbursed for actual expenses.

Tentative schedule for delivery of draft Facility reports to agencies, 2016

Wave 1 Early May	Wave 2 Late June	Wave 3 August	Wave 4 September
CCCSD City American Canyon City of Benicia City of Burlingame City of Livermore Delta Diablo DSRSD City of Hayward Oro Loma	City of Palo Alto City of San Jose EBMUD FSSD Mt. View Sanitary District Novato Sanitary District Treasure Island Vallejo	SFPUC Southeast Plant City of Petaluma City of Sunnyvale CMSA Union San LGVSD Napa Sanitation District Rodeo SF Airport San Mateo South San Francisco	City of Millbrae City of Richmond City of San Leandro Pinole/ Hercules Sausalito/Marin City Sanitary SASM Silicon Valley Clean Water Sonoma County Water Agency West County Wastewater District

Optimization/Upgrade Report Workshop

EBMUD Large Training Resource Center (TRC)

**375 11th St.
Oakland, CA**

June xx, 2016

10:00 am – 2:00 pm

DRAFT AGENDA

Morning Session: 10:00 am – noon

Attendees: BACWA members (POC + others), Consultant Team, Water Board

1. Background of Watershed Permit & Scoping/Evaluation Plan
2. Overview of Project Approach
3. Organization of Plant Reports
4. Plant Report – Case Studies.
 - a. Oro Loma Sanitary District
 - b. Delta Diablo
5. Wave 1 Summary Tables
 - a. Optimization
 - b. Sidestream and Upgrade
 - c. Potential for Load Reduction
6. Review and Sign-Off Process
7. Schedule
 - a. Wave 2,3,4
 - b. Submittal of Final Report
8. Question/Answer

LUNCH BREAK (30 minute)

Afternoon Session: 12:30 – 2:00 pm

Attendees: BACWA members (POC + others), Consultant Team (as needed)

9. Discussion of Layout and Context of Final Report
10. Additional Question and Answers on Optimization/Upgrade Reports

11. Update on Watershed Permit

12. Options for the Next Watershed Permit

13. Adjourn

BACWA Recycled Water Survey 2015

Agency Name (Recycled Water Producer):

Recycled Water Distributors/Retailers:

CURRENT AND PROJECTED FUTURE AMOUNT OF RECYCLED WATER BY USE CATEGORY (in acre-feet)

	Total Distributed	Confidence (see Note B)	Golf Course Irrigation (See Note C)	Landscape (see Note D)	Commercial (see Note E)	Industrial (see Note F)	Agricultural (see Note G)	Environmental Enhancement (see Note H)	Internal Use (see Note I)	GW Recharge for Indirect Potable Reuse	Surface Water Augmentation	Direct Potable Reuse	Other Non-potable Reuse (See Note J)	RO concentrate or other return flows (see Note K)	Comments
Type of RW (See Note A):															
Current 2015			0	0	0	0	0	0	0	0	0	0	0	0	
Future 2020															
Future 2025															
Future 2030															
Future 2035															
Future 2040															
Future 2045															

2015 MONTHLY RECYCLED WATER DISTRIBUTION DATA BY USE CATEGORY (in acre-feet)

	TOTAL		Golf Course	Landscape	Commercial	Industrial	Agricultural	Environ. Enhancemen	Internal Use	GW Recharge	Surface Water	Direct Potable	Other Non- potable	Return Flows	Comments
January															
February															
March															
April															
May															
June															
July															
August															
September															
October															
November															
December															
TOTAL															

Notes: (See README sheet for more detail)

- A Type of Recycled Water = Untreated wastewater (UW), Primary Disinfected (PD), Secondary Undisinfected (SU), Secondary 23 Disinfected (S23), Secondary 2.2 Disinfected (S2.2), Tertiary Disinfected (TD), Advanced Treatment (AT)
- B Confidence = level of confidence in the values provided. 1 = includes only projects that are currently budgeted; 2 = includes projects that are in master plan; 3 = includes projects that are conceptual
- C Golf Course includes public and private courses including impoundments.
- D Landscape includes parks, sports fields, green belts, landscaped areas, excluding golf courses
- E Commercial includes dual-plumbed projects, fire protection, other uses at commercial facilities not included in other categories
- F Industrial includes cooling towers, process water
- G Agricultural includes irrigation, frost protection, agricultural reservoir augmentation
- H Environmental Enhancement includes wildlife habitat, wetland/marsh applications, natural system restoration
- I Internal Use includes facility process water, site irrigation, internal plumbing, fire protection at facility
- J Other non-Potable Reuse includes salt water intrusion barrier, recreational impoundments, geothermal energy production, dust control, truck fill, residential fill (use comments to describe)
- K Return Flows includes RO concentrate or other return flows to the wastewater treatment plant - please include in comments which use produces return flows

Completing the 2015 BACWA Recycled Water Survey

This survey will be used to summarize recycled water use by wastewater agencies in the San Francisco Bay Area for 2015 and provide projections of future use. The survey results will also be used for the Nutrient Watershed permit to estimate nutrient loads diverted from the Bay through water recycling. The BACWA Recycled Water Committee is also working with the State Water Board and DWR to ensure the same information collected for this survey can be used for their statewide survey to be released later this year. Please send any questions about this survey to Leah Walker (lwalker@ci.petaluma.ca.us). **WASTEWATER AGENCY POINTS OF CONTACT ARE RESPONSIBLE FOR VERIFYING DATA WITH RECYCLED WATER RETAILERS/DISTRIBUTORS.**

All units are in acre-feet

INSTRUCTIONS:

- 1 Enter the name of your agency (i.e., the agency that produces the recycled water, or effluent that is used for recycled water)
- 2 Enter the name of the agency or agencies that retails or distributes recycled water to customers (may or may not be the same as #1)
- 3 Enter the type of recycled water for each use category. See notes below for RW types and codes. If your agency does not provide recycled water to a use category leave the field blank.
- 4 Enter your 2015 **monthly** recycled water distributed for each use category in the table at the bottom of the sheet. Use the comments field to describe specific uses within a category. The reported volumes should be the same numbers as included in your Urban Water Management Plan. Please verify the totals with your recycled water retailers/distributors.
- 5 The annual 2015 **TOTALS** will automatically populate the 2015 row in the table at the top of the sheet.
- 6 For years 2020 - 2045, estimate the total amount of RW to be delivered. These numbers should correlate to the Urban Water Management Plan(s) for urban water supplier(s) in your RW service
- 7 For years 2020 - 2045, provide a "Confidence" level for the estimated annual RW deliveries. See notes below for description.
- 8 For years 2020 - 2045, if you have the information and the time, enter estimates for use categories.

DEFINITIONS:

- A Type of Recycled Water** - for each use category, enter the code for the type of RW delivered in 2015. Use comments as needed for clarification.
- | | | |
|---------------------------------------|---|------------------------------------|
| Untreated wastewater (UW) | Secondary 23 Disinfected (S23) | Tertiary Disinfected (TD) |
| Primary Disinfected (PD) | Secondary 2.2 Disinfected (S2.2) | Advanced Treatment (AT) |
| Secondary Undisinfected (SU) | | |
- B Confidence** = level of confidence in the values provided
- 1 If you are estimating deliveries based only on existing projects or new projects in an adopted budget.
 - 2 If you are estimating deliveries including projects that are in an adopted Master Plan or CIP.
 - 3 If you are estimating deliveries including projects that are conceptual or not in an adopted document.
- C Golf Course** includes irrigation of golf courses, whether public or private. Water used to maintain aesthetic impoundments within golf courses is also included with golf course irrigation.
- D Landscape** includes parks, sports fields, green belts, landscaped areas. Irrigation of parks, schools, cemeteries, churches, residential, streetscapes, slope protection, or public facilities. Golf course irrigation is not included. Water to maintain aesthetic impoundments within landscaped areas is included with landscape irrigation. Fill stations primarily used for public use should be classified as landscape irrigation.
- E Commercial** includes dual-plumbed projects, fire protection, other uses at commercial facilities not included in other categories. Includes uses by commercial water users, except landscape irrigation. A commercial water user is a water user that provides or distributes a product or service. Examples of commercial water use are: commercial building use (toilets, HVAC, etc.), car washes, laundries, and retail nurseries. Landscape irrigation of commercial building areas is to be classified as landscape irrigation if it is separately metered or if landscape is the dominant use of mixed uses served by a single meter. Fill stations, if they are primarily used for commercial use, should be classified as commercial use.
- F Industrial** includes cooling towers, process water. Includes uses by industrial water users, except landscape irrigation and geothermal energy production. An industrial user is a water user that is primarily a manufacturer or processor of materials. Examples of industrial water uses are cooling towers, oil refining, process water, and mining. Landscape irrigation of industrial building areas is to be classified as landscape irrigation if it is separately metered or if landscape is the dominant use of mixed uses served by a single meter.
- G Agricultural** includes irrigation, frost protection, agricultural reservoir augmentation. Irrigation of food, fiber, and fodder crops, and pastureland. This also includes christmas tree production, pasture for farm animals, and wholesale plant nurseries.
- H Environmental Enhancement** includes wildlife habitat, wetland/marsh applications, natural system restoration. The area must be designated as a wetland or wildlife area and so does NOT include water that a wastewater facility must discharge to maintain habitat in the creek to which it is discharging.
- I Internal Use** includes facility process water, site irrigation, internal plumbing, fire protection or other use at wastewater or RW facility
- J Other non-Potable Reuse** includes salt water intrusion barrier, recreational impoundments, geothermal energy production, dust control, fill stations if not included in other categories (use comments to describe)
- K Return Flows** includes RO concentrate or other return flows to the wastewater treatment plant - please include in comments which use produces return flows

Potable Reuse Definitions

Groundwater Recharge (IPR)

Addition of water to augment groundwater aquifers for future use. Only groundwater recharge projects that are permitted by the state or regional board for the purpose of groundwater recharge is accounted for in this category. A water agency cannot claim as planned groundwater recharge treated wastewater incidentally recharging groundwater as a result of leakage from evaporation/percolation ponds.

Surface Water Augmentation (IPR)

Surface water augmentation is defined in the CA Water Code as the planned placement of recycled water into a surface water reservoir used as a source of domestic drinking water supply (CWC §13561). Surface water augmentation is not allowed in California at this time, so 2015 recycled water use cannot be classified as surface water augmentation. However, regulations for its implementation are being prepared, so projects may be shown as future use in 2020 or thereafter.

Direct Potable Reuse

Direct potable reuse is defined in the CA Water Code as the planned introduction of recycled water either directly into a public water system or into a raw water supply immediately upstream of a water treatment plant (CWC §13561). This use is currently not permitted in the State of California, but its feasibility is being assessed. A time frame for permitting and implementing direct potable reuse projects is uncertain at this time, but a water supplier may be considering and planning for its enactment. Direct potable reuse may be considered a future beneficial use in 2020 or thereafter, but it is not certain that regulations allowing implementation will be in place.

AGENDA

Assessment Framework Conference Call #1

May 13, 2016

10:00 am – 11:00 am PST

Call-in No. 888-346-3950

Pass code: 1007122#

1. Review Team's progress to date/findings/observations
2. Status on Request for Raw Data
3. BACWA's Key Issues
4. Expectations for the Report
5. Update on Schedule
6. Next steps
7. Future conference calls

Planning Subcommittee (PS) Meeting Summary No. 19

May 4, 2016

9:00 am – noon
Water Board Offices

Meeting Summary

Attendees: Tom M., David S., Ian W., Ben H., and Dave W. (notes)

Note: Action Items and Decisions are shown in *bold italic*.

1. **Agenda Modifications:** There were no modifications to the agenda.
2. **Review Outstanding Action items:** Action Items were reviewed. There was one outstanding item that being to include the final document on use of technical assistance in the next Steering Committee packet as a completed item. ***Action Item: Include the final document regarding use of external technical assistance in the next SC packet as a completed document. (SM)***
3. **Science Program update**
 - a. **Staffing:** No particular noteworthy staffing issues were discussed.
 - b. **Other:** The Science Manager (SM) reported that he has been engaging stakeholders on the possibility of providing additional funding into the Science Program (SP) based on their individual interests in seeing progress on certain investigations. CCCSD and Regional San have expressed some interests in helping fund the development of a water quality model for Suisun Bay (SB). This work relates to project priority P7: Modeling: Suisun and is lower down the list of project priorities. By enhancing the overall model for SB the questions regarding the ammonium paradox could be addressed and key questions (i.e. “is it real?” and “if so, is it important?”) answered. The answers would benefit both CCCSD and Regional San. In addition, there is a linkage to the Delta Water Quality model that the CVRWQCB is supporting. The CVRWQCB has developed a white paper on modeling but has yet to designate a model platform. It is important that the Bay model interfaces with the Delta model. SFEI is working on a proposal for CCCSD/Regional San consideration.

The SM has also started a conversation with the Lower South Bay (LSB) stakeholders on modeling fresh water inputs to LSB. Fresh water input requirements have been discussed as a possible research effort for a Prop 1 proposal. The Water Board (WB) is setting up a meeting with the SWRCB to discuss possible proposals for Prop 1 funding.

4. Priority Updates

a. Report-Outs

- i. Technical Assistance document:** See above discussion.
- ii. Posting of meeting materials on sfbaynutrients.sfei.org:** The SM reported that all meeting materials are being posted.
- iii. Other issues:** There was a brief discussion of the issuance of the next watershed permit. The WB reported that they had discussed the concept of increased funding for the science with EPA who was open to further discussion on this approach. Under this approach the funding for the science plan would be increased allowing key questions to be addressed sooner thereby not requiring more conservative provisions in the next WS permit as a precautionary measure. The EPA is also interested in the development of potential management strategies which will be developed as part of the Program Coordination effort.

BACWA briefed the group on the progress on the Optimization/Upgrade Reports and stated that a workshop was being planned for the end of June. Calendars were checked to determine potential dates for the workshop such that key folks could participate.

b. Current Issues

- i. Agenda for June 10th SC Meeting:** As a holdover from previous discussions, the venue for the SC meetings was discussed. The pros and cons of holding the meetings at the State Building vs. SFEI was discussed and a decision made to alternate the meeting locations for FY 17 and then re-evaluate the best approach for meeting locations after one year.

1. **Meeting Goals and approach:** The content of the June 10th proposed agenda was then discussed (See Attachment A). The key goal of the meeting will be to approve the FY 17 Program Plan. It was decided that the best approach would be to thoroughly discuss the proposed plan and then call for a consensus or vote if needed.
2. **Project prioritization in FY 17:** The SM presented his priority ranking of the core programs and priority projects (see Attachment B). There is roughly \$1.4M in “must do” programs and projects. This assumes about \$500k contribution from the RMP. There will be roughly \$200k in reserves at the beginning of FY 17. To get through P5 would take \$1.46M and through P6 would take \$1.6M. A question was raised as to the importance of P11, Data Management. This project involves the QA/QC of all of the data. The SM felt that since there is some on-going QA/QC taking place that the overall QA/QC effort could survive another year without doing P11. Pointing out the need for ultimately completing P11 to the SC would help highlight the significant underfunding issue for the science program.

The WB stated there is a good possibility of getting \$200k in funding assistance from the State as a result of the WB submitting a request and justification for State funds. If the grant is awarded, there will be an assessment as to whether or not the State has the capability of undertaking the work or if it should be contracted out.

A question was raised as to whether or not P6, HAB Investigation is the right priority? Central Bay stakeholders see HABs as an issue. The SM stated that he will be meeting with his Science Advisors in the coming week to review the priority ranking. The SM was asked if the meeting will be open or if interested parties could sit in the back and observe? The SM stated that this would not support the frank discussion that are critical to vetting all concerns however a minority opinion could be prepared as an outcome of the meeting. **Action Item: Consider development of a minority opinion when reporting the outcome of the Science Advisors meetings. (SM)**

At this time the SM plans on requesting approval from the SC for a \$1.48M FY17 science program budget which consist of \$1.28M in current year funding plus use of \$200k in reserves. He will also present a block of alternative projects that could be funded if stakeholders who have an interest in those project step forward with the needed funds. These alternative projects include the SB ammonium investigation, the Central Bay HABs studies and the LSB benthos, slough and modeling efforts. It was suggested that the SM develop a graphic display that will make it clear what the various components of the science plan are for FY 17. **Action Item: The SM to develop a graphic display that will assist in presenting the component of the proposed Science Plan for FY 17. (SM)**

A question was then raised on the important of P3, DO Sloughs/Creeks. It was pointed out that not much is known about the sloughs and they could be a problem. The only number current on the books is 5 mg/l. The WB needs some information as to why these areas should not be listed. A question was asked is the fish the concern with DO or are nutrients an issue? The WB felt that P3 is a “must do” project. Some WB staff feel that a site specific objective may be needed.

The SM plans on having the final proposed budget distributed 2-3 weeks in advance or the SC meeting. **Action Item: the SM to distribute the proposed FY 17 budget 2-3 weeks before the SC meeting.**

- ii. **EPA Water Quality Improvement Fund Proposal:** The possibility of submitting a proposal to EPA for WQIF is still being discussed within SFEI. The RFP for the WQIF has just been released.

In addition, under SC Agenda item #7 it was noted that the EPA is interested in an update on the EBMUD WQIF project on sidestream treatment. The SC has not been briefed on this effort in the past.

iii. **Program Coordination Update:**

1. **Stakeholder Engagement, fundraising:** The SM stated he is in the process of developing a stakeholder plan for fund raising. A time needs to be set for presenting the Program Coordinator annual plan to the SC. This does not necessarily need to be a face-to-face meeting with the SC.
2. **SFEI-BayKeeper coordination:** The BayKeeper has decided that it prefers for BayKeeper staff to act as an independent contractor if they intend to participate as a working member of the Program Coordination effort. The BayKeeper staff would continue to serve on the SC but would need to be cognizant of any perceived conflicts and recuse himself on these issues. The contract for services to assist on the Program Coordination effort would be between the SFEI and the individual but he would be serving in the role as an independent contractor.

iv. **Discuss work plan for establishing all SF Bay nutrient studies within NMS**

structure: There was no discussion on this topic but this is an on-going effort to promote the “one tent” concept. The Program Coordination staff will develop ideas on how to further promote this concept. **Action Item: Develop ideas on further promoting the “one tent” concept. (SM)**

It was suggested that the SM discuss program funding under SC agenda item #5 and note that the program plan is contingent on the availability of adequate funding. The SM stated he would also touch on how, as part of the Program Coordinator effort, increasing program funding will be an import focus.

c. **NMS Calendar Review**

Review future SC and PS meeting schedules: The future meeting schedule was reviewed. The calendar should also be discussed as part of the SC agenda. **Action Item: Send out the dates for the next SC meetings and the agenda for the June 10, 2016 meeting to be held at SFEI. In addition, develop an attendee spreadsheet**

showing historical attendance at SC meetings that can be insert into the SC meeting summaries and present at the next PS meeting for review. (IW)

5. Other Updates

- a. **Progress report on development of a monitoring program proposal for SC consideration:** The SM in collaboration with the USGS staff is making progress on this effort.
- b. **Status update on the Suisun Synthesis:** Work is continuing on finalizing this document. It is estimated that the final document will be available before the end of June and will be distributed to the SC. **Action Item: *Finalize the Suisun Synthesis and distribute to the SC. (SM)***
- c. **R5 ammonia workshop:** coordination between the Delta effort and the NMS is continuing. The dates for the proposed workshop have been pushed out to the end of the year in order to accommodate key attendees' schedules.

6. Planning the next Subcommittee meeting

- a. **Review of Action items from meeting:** Action Items were reviewed.
- b. **Next steps:** The WB pointed out that EPA national is working on release of new proposed nutrient criteria for nitrate. They intend to first focus on lakes and then on estuaries. This should be discussed by the stakeholders in the context of the potential to re-issue the watershed permit earlier in advance of the new criteria. The WB would not necessarily need to use the criteria but would need a standard. This could be discussed at the RMP Annual meeting but there is a concern about that meeting becoming too nutrient centric. There could also be a nutrient annual forum to update stakeholders. Suggestion was to put this on the PS Parking Lot issues. **Action Item: *Add EPA nutrient criteria to PS Parking Lot along with the concept of an annual forum on nutrients. (IW)***

7. Parking Lot of Identified PS Future Agenda Items

- a. **Program Coordinator Workplan & Strategic NMS planning**
- b. **Brainstorming and options for attracting additional funds for use on the Science Plan**
- c. **Brainstorming on future priorities for the PS**

- d. **Table or graphic to assist PS in determining highest priority projects (DS)**
- 8. **Adjourn:** The Meeting adjourned at 12:00

EDMUND G. BROWN JR.
GOVERNORMATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

San Francisco Bay Regional Water Quality Control Board
San Francisco Bay Nutrient Management Strategy (NMS) Steering Committee

~~March 11 2016~~
 JUN 10, 2016

San Francisco Estuary Institute, Richmond CA

DRAFT
AGENDA

	Agenda Item	Lead	Time
1	Welcome, Introductions and Agenda Review	PT	9:00-9:10
2	Action items	PT or DW	9:10-9:20
3	Program Update: <ul style="list-style-type: none"> Science Program and Financial update Planning Subcommittee update <i>Desired outcome:</i> Provide high level update, NMS activities <i>Materials:</i> xxxx	IW DS	9:20-9:45
4	Technical Update - Science Program <ul style="list-style-type: none"> Modeling update, Dissolved oxygen in shallow habitats Algal toxins, phytoplankton Q&A discussion <i>Desired outcome:</i> Updates on major science activities <i>Materials:</i> xxxx	DS and staff	9:45-10:45
5	Approval Item: 2016 NMS Science Program Plan <ul style="list-style-type: none"> Background, program needs Proposed approach <i>Desired outcome:</i> Discussion and Approval from SC for 2016 program plan <i>Materials:</i> FY17 and 5-year planning budget; FY17 Project descriptions (circulated 2-3 weeks beforehand);	DS	10:45-11:00 (presentation , overview)

DR. TERRY F. YOUNG, CHAIR | BRUCE H. WOLFE, EXECUTIVE OFFICER

1515 Clay St., Suite 1400, Oakland, CA 94612 | www.waterboards.ca.gov/sanfranciscobay



	Break		11:00-11:15
	Continued: 2016 NMS Science Program Plan	DS	11:15-12:30 Discussion (45 min), Summarize (15min) Vote (15min)
	Lunch		12:30-1:00
6	Discussion Item: NMS Program building, fundraising...Where do we need to be going, and how do we get there? <ul style="list-style-type: none"> Goals: The idea for this would be to have a well-structured dialogue with the SC about how to grow the program, how to get them better engaged, etc. 		1:00-1:45
7	Discussion Item: Nutrient Management activities; Presentation of EBMUD WQIF project, HDR	Jun, EBMUD	1:45-2:30
8	Other Business <ul style="list-style-type: none"> Updates from other activities <ul style="list-style-type: none"> RegionalSan Region 5, workshop Other 		2:30-2:50
9	Action Items and Wrap-up		2:45-3:00
	Adjourn		3:00

NOTES:

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FY2017_PlanningBudget_updated_April12

Below is a summary of the projects proposed/discussed at the March SC meeting, broken into Core Program and Projects. Only highest priority projects were included, and they arranged by priority. The relative ranks are based on science needs and timing (i.e., lower priority activities could come in subsequent years with less impact on program), and coordination with other on-going activities. Also included are the %FTE for staff, to illustrate how people are covered. If C1-C6 and P1-P5 are funded, all staff (including replacement for Emily) will be fully covered. If some of these projects are dropped, then the time of some staff will be moved up to Core Program and activities will need to be defined there.

Activities are classified into three categories relative to funding
 - Must-Dos Within Budget: Core + Projects that can be carried out with current anticipated budget (will require some reserves and some reallocating)
 - Must-Dos Exceeding Budget: The next highest priority projects that, if funds became available, depending on which (if any) funding sources come through, P.6, P.7, or P.8 may be the modeling project selected
 - High-Priority Exceeding Budget: Additional projects that we need to be moving forward with this year if funding can be identified

CORE PROGRAM	Cost	Cumulative Total	Fraction of FTE by activity					Notes
			RH	PB	ZS	new_hire	DS	new_modeler
C.1 Channel Monitoring	162700	162700			0.30			
C.2 Basic Modeling	265200	417900	0.80					
C.3 Moored sensor / DO /biogeochem	239800	657700		0.50	0.40			
C.4 Data Analysis / Synthesis	82969	740669				0.50		
C.5 Science Program Coordination	263125	1003794					1.00	
C.6 Program management	59426	1063220						
Core Program subtotal	1063220							
PROJECTS								
P.1 Monitoring Program Development	75755	1138975	0.15	0.15				
P.2 DO sloughs/creeks	59780	1198755		0.15				
P.3 Approach to DO/habitat characterization	135438	1334193						
P.4 Toxin in mussels	70400	1404593			0.30	0.50		
P.5 Remote Sensing, Feasibility/Model calibration/validatio	53365	1457958	0.05	0.20				
P.6 HABS lab/field investigation	142100	1600058						
P.7 Modeling, Suisun	225850	1825908						
P.8 Modeling, Scenarios...HABs, coupling with coast, ...	205850	2031758						1.00
P.9 Modeling slough/creeks/ponds	113250	2145008						1.00
P.10 Fishbenchos Field Investigations for DO, augmenting H	50000	2195008						0.50
P.11 Data Management	33040	2228048						
P.12 Program review	40000	2268048						
Projects subtotal	1204828							
Total	2268048							
		FTE_sum	1.00	1.00	1.00	1.00	1.00	2.50

RH = Rusty Holleman, modeler

PB = Phil Bresnahan, biogeochemist/sensors

ZS = Zephyr Sylvester, toxin work and will take over Emily's moored sensor field work

new_hire = This person will replace Emily's role as a mid-level scientist, data interpretation, leading a range of activities (synthesis, DO habitat project)
 DS = Dave Senn, all time included under C.5

new_modeler = placeholder to catch all new modeling tasks. One new modeling hire seems reasonable, more than that would not be sustainable in the long run as full-time staff, would instead go route of postdoc or external contractor

Must-Dos Within Budget
 Must-Dos Exceeding Budget
 High-Priority Exceeding Budget

San Francisco Bay Regional Water Quality Control Board
San Francisco Bay Nutrient Management Strategy (NMS) Steering Committee

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Joint BACWA/Regional Water Board staff Meeting Minutes

May 3, 2016, 10am-12pm

Attendees:

David Williams, BACWA
Laura Pagano, SFPUC
Lorien Fono, BACWA
Lori Schectel, CCCSD
Jim Ervin, San Jose/Santa Clara
Mike Connor, EBDA
Tom Mumley, Regional Water Board
Bruce Wolfe, Regional Water Board
Lila Tang, Regional Water Board

Bill Johnson, Regional Water Board
Naomi Feger, Regional Water Board
Robert Schlipf, Regional Water Board
Dyan Whyte, Regional Water Board
Luis Jaimes, Santa Clara Valley Water District
Bhavani Yerrapotu, City of Sunnyvale
Andre Gharagozian, Carollo Engineers

1. Introductions

2. Recycled Water

a. *State General Order for Water Recycling*

The State Water Board plans to make enrollment in the General Order Mandatory for Regional Permittees. Regional Water Board staff reported that this initiative comes from the State Water Board staff level, and the intent is to phase out 96-011 because they say it does not comply with the State Recycled Water Policy. The State Water Board would like to use their General Order as a vehicle to better track recycled water Statewide in the future. Regional Water Board staff would like to see a seamless transition for permittees from 96-011 to the State General Order, but haven't yet planned how to manage the enrollment process.

b. *Proposition 1 Research Proposal*

Luis Jaimes gave a description of SCVWD's plans for increasing recycled water in the Lower South Bay. BACWA presented two concepts for a recycled water research proposal. The two proposal concepts were to study 1) use of RO concentrate to nourish tidal wetlands; or 2) impacts of freshwater withdrawals from the South Bay and Lower South Bay. The Regional Water Board expressed support for the first concept, and will set up a meeting with the State Water Board to discuss how to fund it. They requested that BACWA provide a 1-page writeup of concept 1.

c. *Surface Water Augmentation Regulations*

BACWA submitted a comment letter to the State Water Board in advance of the public comment period urging them to incorporate an alternatives clause for agencies whose reservoirs cannot meet the six-month residence time that will likely be required. BACWA suggested that the Water Board host a workshop in the Autumn when the regulations are being finalized.

d. *CCMP*

BACWA reported that they have been working with SFEP on the actions in the CCMP pertaining to recycled water and CECs. The Regional Water Board

advised BACWA that there is also an action pertaining to private sewer lateral ordinances.

e. SB163 (Hertzberg)

The proposed bill would prohibit effluent discharges that reach the ocean and mandate 100% recycling. A future amendment will likely include Bay dischargers. The Water Board mentioned they intend to provide comments to Hertzberg on how the proposed Bill runs counter to the Clean Water Act and the Basin Plan.

f. Recycled Water Survey

BACWA described its efforts to coordinate with State Agencies in developing its Recycled Water Survey that will be incorporated into the Optimization and Upgrade Studies. The Regional Water Board advised that State Agencies will likely require increased reporting in the future and BACWA should continue its coordination efforts. BACWA will send the Regional Water Board a copy of the final Survey it will send to members.

3. Nutrients

a. Optimization/Upgrade Study Updates

The facility reports will be sent out in early May and will need to be signed off by the agency points of contact. Costs for optimization are higher than expected, and it is difficult to draw a line between optimization and upgrades. BACWA will host a workshop in early summer to discuss the facility reports with its members.

b. Nutrient Annual Report data sheet

The consultant developed a data sheet for agencies to input the data that will be needed for the Annual Report. This should prevent the problems that took place during the previous reporting year with downloading data from CIWQS.

c. Consultant Support for Technical Review of Scientific Documents

BACWA has signed a contract with the Consultant to review the documents and data associated with the Assessment Framework. BACWA described how the consultant would be providing a necessary service to its members by offering an objective third-party review. Regional Water Board staff objected to language in the May BACWA Bulletin that said that the Assessment framework was prepared outside the purview of the Nutrient Management Strategy and requested that it be removed. Regional Water Board staff reminded BACWA that they would like to discuss how antidegradation will be addressed in the next watershed permit.

4. Collection Systems Issues

a. EMWD Lawsuit

Eastern Municipal Water District successfully defended itself against a RiverWatch lawsuit.

b. Wheeler Institute White Paper

The Wheeler Institute at UC Berkeley finalized its white paper on Clean Water Act Citizen Lawsuits in California. While none of the stakeholders are completely happy with the conclusions in the document, it represents a thorough data gathering effort that may be of use in the future. BACWA will send the White Paper to Regional Water Board staff.

5. Microplastics and Constituents of Emerging Concern (CECs)

a. *Microplastics Update*

The BACWA workgroup has been working on the analytical method to quantify and characterize microplastic particles. Preliminary results show that the NOAA method that was used in the SFEI study does not fully digest natural fibers. BACWA and SFEI had a discussion with EPA staff about a potential grant for microplastics source control. These EPA funds are earmarked for implementation activities which are premature for microplastics pollution prevention.

b. *4/15 RMP CEC Workgroup Meeting*

The meeting was well-attended, and included DTSC and DPR staff. There was support for updating and maintaining the CEC strategy, increased modeling and passive (vs. grab) sampling. The group tried to predict the level of funding that would result from the Alternative Monitoring Plan. The RMP will also receive some funding from Supplemental Environmental Projects from enforcement actions. The Workgroup will plan a check-in meeting in Fall 2016.

c. *State Pilot CECs Monitoring Plan*

The State Pilot CECs Monitoring Plan was developed without taking to account existing data generated by either the RMP in the SF Bay Region, or SCCWRP in the Los Angeles Region. After getting feedback from POTWs, State Water Board staff are substantially revising the Plan. Region 2 is working with other Regions to pursue a Statewide Strategy on CECs, and will workshop this with the State Water Board in November.

6. Risk Reduction

The Regional Water Board is interested in hosting a meeting with WSPA, BACWA and BASMAA featuring the risk reduction efforts funded by each of these agencies. Regional Water Board staff advised BACWA to keep an eye on the new Tribal and Subsistence Fishing beneficial uses and how these could impact mercury objectives for the Bay. The Regional Water Board is not yet sure how to designate these new uses. While the objective may be more stringent than those used to develop the SF Bay Hg/PCB TMDL, there does not seem to be interest amongst regulators in reopening that TMDL.

7. Toxicity

BACWA reported that a SCCWRP interlaboratory study showed high false positive rate for *ceriodaphnia* using the TST. The State Water Board is still aiming to release an updated draft of the State Toxicity Plan in July 2016.

8. Other items

Regional Water Board staff requested that EPA's selenium objectives for the SF Bay be included on the next joint meeting agenda.

ADJOURNMENT

BACWA Biosolids Committee Request 2016 Biosolids Trends Survey

- REQUEST:** Support and partially fund the administration of a 2016 Biosolids Trends Survey of BACWA members. Utilize results to prepare a brief report.
- COST:** The survey results would be compiled under the leadership of the Committee, with consultant support estimated at \$10,000.
- DESCRIPTION:** The survey would be identical to the survey of SCAP members that is conducted every two years. It contains only 7 questions covering the following areas:
1. Biosolids production quantity and quality
 2. End use and costs
 3. Dewatering technology and total solids
 4. Perceived challenges
 5. Planning for the future
 6. Marketing of products
 7. Utilization of social media
- JUSTIFICATION:** The biosolids market in the Bay Area is different than in Southern California. While the SCAP survey results are interesting, they are not as pertinent as a survey of BACWA agencies would be. Current Bay Area cost information in particular does not exist in any other document or report.
- BENEFIT:** The survey would provide useful information to member agencies for better understanding regional issues, current practices and costs associated with biosolids management, which is a significant operating expense for most of the BACWA member agencies. The quantity and quality of biosolids produced is tracked by the EPA and available; however these data are limited in scope and not user friendly.

Proposition 1 Recycled Water Research Proposal Concept

A workgroup consisting of BACWA members and a representative from Santa Clara Valley Water District (SCVWD) held a conference call on 3/22 to discuss possible topics for a proposal to submit to the State Water Board for Proposition 1 funding for recycled water research. BACWA staff have also discussed project ideas with the San Francisco Estuary Institute and Regional Water Board Staff. ReNUWIt has been working on CECs in the Oro Loma Ecotone Project and may take part in this proposal.

Concept: Use of marshlands to treat reverse osmosis concentrate

Background

SCVWD's goals for recycled and purified water production are at least 20,000 AFY of potable reuse by year 2020, and at least 10% of annual recycled water production as a percentage of total county water demands by 2025. POTW effluent will be treated by reverse osmosis, resulting in a discharge composed of approximately 15% of the volume but most of the constituents from the original effluent. NPDES permit compliance may be challenging using existing outfalls at build-out. Using wetlands may be complementary to use of the existing outfall and will ensure NPDES permit compliance.

Research Questions

Could effluent and/or concentrate be beneficially reused to provide fresh and brackish water to "nourish" tidal wetlands or salt ponds? The project would specifically address the following questions:

- How to engineer a system to best support wetlands for habitat and sea level rise protection, and strategies to adaptively manage the wetland?
- Does RO concentrate differ from secondary effluent in its ability to support marshlands?
- What are the important pollutants of concern in RO concentrate for wetlands?
- How much nutrient and other pollutant removal is possible by tidal wetlands?
- What are the water quality impacts of RO concentrate on marshlands due to nutrients, priority pollutants, CECs, toxicity, and cyanide?
- How would priority pollutants and CECs accumulate in tidal wetlands after long-term effluent discharge?

The proposal would likely lay out phased approach as follows: 1) planning and literature review, 2) concentrate characterization for conventional and emerging contaminants, and 3) pilot study similar to Oro Loma. This project could be conducted in collaboration with SCVWD, which is in the process of retaining a consultant to look at RO concentrate management regionally, SFEI, and ReNUWIt.

Next Steps

Regional Water Quality Control Board staff are working to set up a meeting with State Water Board staff to discuss the proposal. BACWA and partners will deliver a 1-page description on proposal concept, to be refined after discussions with ReNUWIt.



May 13, 2016

State Water Resources Control Board
commentletters@waterboards.ca.gov

Subject: Proposed General Order for Recycled Water Use

To State Water Resources Control Board:

The Bay Area Clean Water Agencies (BACWA) appreciates the opportunity to provide comments on the proposed General Order for Recycled Water Use (General Order), which provides for water reclamation requirements (WRR) for recycled water use.

BACWA is a joint powers authority, comprised of public utilities providing sanitary sewer services to 6.5 million people in the nine county Bay Area. BACWA is dedicated to working with our member agencies, the state and federal governments, as well as non-governmental organizations to deliver the best information about the water quality and enhancement of the San Francisco Bay (see <http://bacwa.org/members/> for a list of BACWA member agencies). BACWA encourages the SWRCB to consider all comments that promote and facilitate the implementation of recycled water projects while protecting public health and the environment.

1. BACWA does not support incorporating Finding 34 into the General Order

For the past twenty years in Region 2, the San Francisco Regional Water Quality Control Board (Regional Water Board) has had a well-functioning system for permitting recycled water projects. By requiring all permittees to enroll in the General Order, the Board will add to the administrative burden of many long-established Region 2 water reuse programs, raising the cost of water reuse without contributing to the overall goal of the Recycled Water Policy of increasing the development of recycled water resources.

BACWA supports the SWRCB goal of increased use of recycled water in California, as required by the Statewide Recycled Water Policy. For this reason we recommend that the SWRCB not incorporate the proposed Finding 34, which would have the effect of discouraging recycled water use.

2. The comment deadline should be extended, and opened to other provisions in the General Order beyond Finding 34.

Earlier versions of the proposed General Order did not require existing recycled water permittees to enroll under the General Order. Therefore, many recycled water permittees did not give the proposed General Order the close review they would have had they known that enrollment would be mandatory and impact their current programs. Given that the proposed revision including Finding 34 was released on April 22nd, these agencies should be given more time to comment, and allowed to comment on the entire proposed General Order.

3. If Finding 34 is incorporated into the State General Order, BACWA recommends the following changes to the General Order to reduce unnecessary burdens on permittees.

Notwithstanding our objection to mandatory enrollment in the General Order, if Finding 34 is incorporated into the State General Order BACWA strongly urges the SWRCB to include two provisions that might mitigate its negative impact on permittees. Specifically, we request the addition of the following stipulations:

- **At the expiration of the “grace period” (three years according to the current text), existing permittees shall be deemed as enrolled into the General Order.** This will eliminate the administrative burden of State General Order that would otherwise occur if ongoing programs were required to reapply for a permit, including resubmitting Engineering Reports and revising established practices in the regular submittal of self-monitoring reports that are working effectively.

The requirement to provide new Engineering Reports and O&M Plans is in opposition to the Recycled Water Policy’s intent to streamline permitting for recycled water projects. Existing permittees should not be required to develop new Engineering Reports and Operations and Management (O&M) Plans to obtain coverage under the proposed General Order. Under the permission and monitoring of the Regional Water Board and the Division of Drinking Water, existing permittees have established standard operating procedures for production and delivery of recycled water; end users have long accepted service expectations and monitoring requirements from existing recycled water producers and distributors. Existing permittees work satisfactorily with and provide annual reports to the Regional Water Board. Developing new Engineering Reports and O&M Plans are an unnecessary burden to existing permittees and the State.

- **Regional Water Quality Control Boards shall be given discretion to require or waive the priority pollutant monitoring requirements in the WRR as appropriate.** As a result, unless specifically required by their respective Regional Boards, permittees shall not be required to monitor for all priority pollutants when there is no reason to suspect the presence of such pollutants and no plan to utilize the accumulated data.

As an example of the importance of this second provision, in Region 2 the Regional Water Board has just recently adopted an alternative monitoring plan that specifically reduces the routine monitoring of priority pollutants in order to transfer the savings to our Regional Monitoring Program (RMP). In March 2016, the San Francisco Bay Regional Water Board adopted Alternate Monitoring Plan R2-2016-0008 that allows municipal dischargers to reduce monitoring frequencies for the following tests:

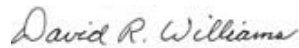
- EPA Method 608 (PCBs as arochlors, and chlorinated pesticides)
- EPA Method 624 (volatile organic compounds)
- EPA Method 625 (base neutral acids)
- EPA Method 1613 (dioxins)

While the constituents monitored by these methods may have been cause for concern decades ago when they were incorporated into the California Toxics Rule, in recent years they have

been detected here rarely and at levels lower than would pose an active threat to water quality. The concept behind the Alternate Monitoring Plan is that POTW funds are much better used to support emerging contaminants research through the RMP than continuing routine monitoring of historical pollutants in effluent. The General Order undermines this effort by reinstituting monitoring requirements that were just removed by R2-2016-0008. Recycled water generally has lower pollutant concentrations than wastewater effluent, and should not be subject to additional monitoring requirements where Regional Water Boards determine that the data is of little value.

Thank you for your consideration. Should you have any questions about these comments, please feel free to contact David Williams at dwilliams@bacwa.org.

Sincerely,

A handwritten signature in cursive script that reads "David R. Williams".

David R. Williams, P.E.
Executive Director

Cc: BACWA Board
Dyan Whyte, San Francisco Regional Water Board
Tom Mumley, San Francisco Regional Water Board
Bruce Wolfe, San Francisco Regional Water Board

ACTION 22

Expand the use of recycled water

41

Work with water agencies, municipalities, and stakeholders to reduce barriers to the broader use of recycled water. Encourage the use of the right water at the right time and in the right place.

TASK 22-1 Increase coordination among municipalities, wastewater agencies, and drinking water agencies to expand incorporation of recycled water into local and regional water resources planning. Collaborate to identify opportunities for the broader use of recycled water as well as ways to overcome funding and planning gaps, and regulatory and permitting constraints.

BY 2018 Hold three meetings.

TASK 22-2 Promote existing outreach activities educating the public about recycled water. Encourage the sharing of informational materials, resources, and program models among municipalities, wastewater agencies, and drinking water agencies.

BY 2017 Develop platform for sharing resources.

OWNERS

Bay Area Clean Water Agencies (Tasks 22-1, 22-2)
SF Estuary Partnership (Tasks 22-1, 22-2)

COLLABORATING PARTNERS

Association of Bay Area Governments, North Bay Water Reuse Authority, WaterReuse California, WaterReuse Northern California Chapter, Western Recycled Water Coalition, various municipalities and water and wastewater agencies.

BACKGROUND

Recycled water refers to water treated to either non-potable or potable standards to provide a beneficial use. Recycled water is an increasingly important part of the Bay Area's water portfolio, yet regional use still lags behind other parts of the state according to the 2015 *State of the Estuary Report*. Until recently, most of the surface and ground water consumed in the Bay Area was treated to drinking water standards, used once, treated again to remove pollutants, and discharged to the Bay from wastewater treatment plants. Increasing competition for high quality fresh water in a time of prolonged drought, with resulting conflicts between environmental and human uses, make water recycling more important than ever.

This CCMP action supports efforts underway to make more efficient use of the Bay Area's potable water supply by using recycled water to 1) irrigate landscapes and crops, 2) cool the processing water in refineries and power plants, 3) create wetlands and other habitats,

and 4) supplement instream flow where other alternatives are not available. Recycled water can also be used to expand water supplies by recharging groundwater, as is already done in other areas of California or, after it is purified, to supplement the surface storage and distribution system.

This CCMP action endorses the "right use of the right water at the right time and in the right place" approach. This approach seeks to optimize recycled water use within current constraints. Constraints may include a lack of infrastructure for recycled water delivery, limited funding for pumping or pipeline construction, and planning gaps.

One effort to address planning gaps has been the 2013 *Bay Area Integrated Regional Water Management Plan* (BAIRWMP). The plan projects that recycled water use will more than double over the next 20 years, to 120,000 acre-feet per year, primarily by offsetting potable supplies and in environmental restoration projects and landscaping. Local wastewater agencies are working individually and through partnerships to implement projects identified in the BAIRWMP. Partnerships such as the Bay Area Clean Water Agencies (BACWA), the North Bay Water Reuse Authority, and the Western Recycled Water Coalition, have developed greater regional capacity.

Recent efforts are coalescing around a concept called "direct potable reuse" or DPR. DPR is the introduction of highly purified recycled water directly into the raw water supply immediately upstream of a water treatment plant, or into the distribution system downstream of a water treatment plant. More scientific research on the impacts of expanding DPR may be required, but it offers an opportunity to significantly reduce the distance that purified water would need to be pumped, thereby reducing costs.

One barrier to expanding DPR is the public's lack of awareness about just how clean recycled water can be (in many cases cleaner than potable water). A key to gaining public acceptance is aggressive source control of pharmaceuticals and other Constituents of Emerging Concern (CECs), traces of which remain in municipal wastewater. A process called reverse osmosis, used to purify recycled water, is also of concern to environmental health because of potential impacts from reverse osmosis concentrate, a by-product. Additional studies evaluating how to best protect human health and the environment, or more outreach sharing the results of existing studies, may help foster public support.

This CCMP action supports regional partnerships like BACWA in efforts to share resources and reduce barriers to the broader use of recycled water.

NEXUS

Actions 14, 17, 20, 21, 23, 25, 27; Goals; Objectives

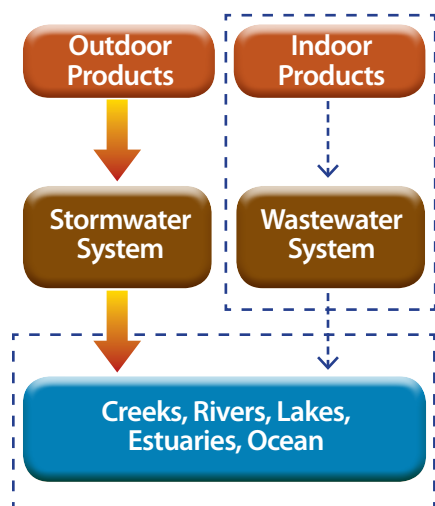
Pesticide Regulatory Update and Call to Action



BACWA and its members have an important opportunity to weigh in on toxic pesticides that have pathways to Publicly-Owned Treatment Works (POTWs). In the coming months, BACWA members need to proactively engage with:

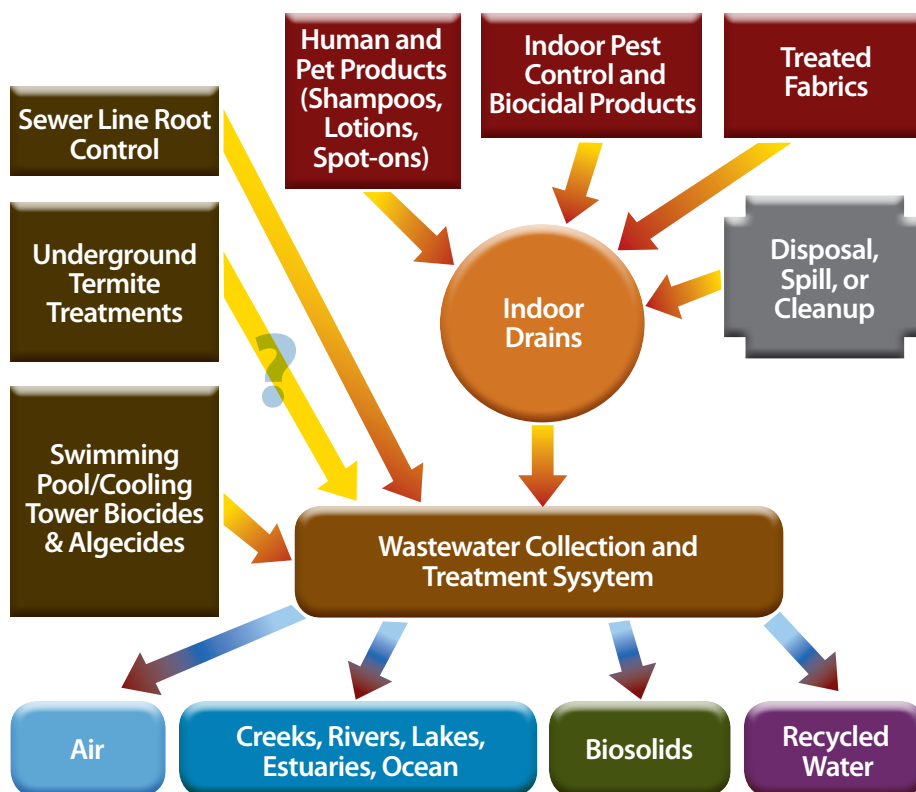
1. US EPA during the registration review of fipronil, pyrethroids and other key pesticides.
2. California Department of Pesticide Regulation (DPR) and San Francisco Estuary Institute (SFEI) and their on-going studies to enhance understanding, improve modeling of pesticide fate and transport, and identify targeted mitigation measures for DPR or EPA implementation.

Typical Regulatory Outlook

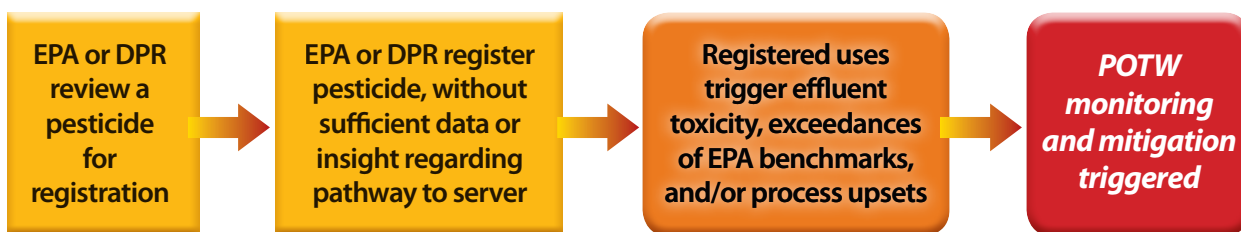


In pesticide risk assessments, either the eventual urban water quality impact is ignored altogether or only stormwater pathways are considered. Such omissions can prove costly for POTWs, due to process interference and/or impacts to receiving water, recycled water and/or biosolids.

Reality for a POTW



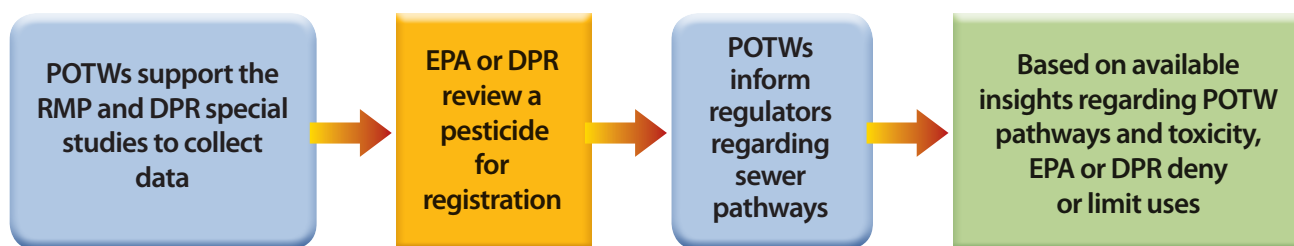
Pesticide regulatory actions often ignore uses with pathways to sewers, leaving waterways vulnerable and POTWs responsible for costly monitoring and mitigation.



POTWs cannot regulate pesticides sales or use. Effective mitigation needs EPA and DPR action.

2016 is a key year for some highly toxic pesticides that have pathways to POTWs. The EPA is reviewing the registration of several key pesticides, a task it conducts once about every 15 years. If we miss this window, it could impact POTW operations and receiving water quality for years to come. Further, in recent years the DPR has begun to more effectively evaluate water quality impacts of pesticides, engaging with the State Water Board staff, hiring in-house wastewater experts, initiating their first scientific wastewater studies, and developing wastewater discharge models.

POTWs have an opportunity to avoid reactive measures by supporting data collection studies and educating regulators regarding sewer pathways.



In 2016, the highest priorities for Bay Area POTWs are fipronil and pyrethroids. Fipronil is a Contaminant of Emerging Concern (CEC) for which the San Francisco Regional Water Quality Control Board is requiring a Management Action Plan from all Bay Area POTWs, in part because effluent concentrations often exceed EPA Benchmarks. Pyrethroids include more than 18 individual compounds; in 2015, the EPA decided to prepare a joint risk assessment for these pyrethroids, rather than individual assessments, presenting opportunities and challenges for all stakeholders. The single risk assessment approach means that there is only one opportunity to engage and provide monitoring and toxicity data until the next review cycle (15 or more years in the future). BACWA attention is especially important given the unique nature of this review. Other keys for 2016 are DPR scientific and modeling studies and the EPA registration reviews for copper and silver compounds, imidacloprid, and precedent-setting risk assessment approaches being piloted in the malathion review.

2016 and 2017 include significant opportunities for Bay Area POTWs to engage.

2016-17 Priority	Pesticide (Primary indoor use)	State Level	Federal Level (Estimated stakeholder comment date)
First Priority	Fipronil (Topical treatments on pets for flea and tick control)	DPR dog washing study (in progress) SFBRWQCB is drafting a CEC factsheet to clarify concerns and requirement for POTW Management Action Plans RMP Special Study in progress (SFEI/ Region 2)	EPA Risk Assessment (Feb 2017)
	Pyrethroids (Indoor and topical treatments to control ants, cockroaches, fleas, head lice, and bed bugs.)		EPA Risk Assessment (Fall 2016)
	All	DPR POTW monitoring study (in planning) DPR wastewater modeling methodology	POTW Modeling Methodology (Multiple conference calls with BACWA and EPA in 2016)
High Priority	Malathion (Flea and head lice treatments)		EPA Risk Assessment (Summer 2016)
	Copper and Silver (Treated fabric)	DPR reviewing registration of impregnated clothing and food containers	EPA Copper Risk Assessment (Spring 2016) EPA Silver Risk Assessment (expected 2017)
	Imidacloprid (Topical flea treatments on pets)	RMP Special Study in progress (SFEI/ Region2)	EPA Risk Assessment (Fall 2016)
	All	Statewide Pesticide Plan (stormwater focused; POTW impact TBD)	

BACWA seeks to proactively support a scientifically sound pesticide management program that will not impact POTWs' primary functions of collecting and treating wastewater, recycling water, and managing biosolids.

UPDATE ON THE *BAY AREA CONSORTIUM FOR CLEAN WATER EDUCATION (BACCWE)*

A BACWA PROJECT OF SPECIAL BENEFIT

The Bay Area Consortium for Clean Water Education (BACCWE) brings together industry and education partners to educate the workforce of the future, the next generation of water and wastewater professionals in the industry.

The Bay Area Clean Water Agencies (BACWA) supports the program by providing administrative support including invoicing participating agencies.

Beginning in FY17 there will be a new model for BACCWE. There will be a transition period during which BACWA will continue to invoice participating agencies and, for the Fall 2016 semester, will contract with Solano Community College. But beginning with the Fall 2016 semester BACCWE will begin to transition to only offering courses through Gavilan College. Gavilan College will offer their courses at agency sites and require 20 students in each class offered. BACWA will disperse funds directly to the participating students in the form of a scholarship to reimburse them for books and tuition after successfully completing the course work. The benefits of this new approach include providing courses at no cost and the management of the academic part of the program by Gavilan College who has the ability to track student progress and offer the necessary courses to complete the program.

BACWA will also contract with Barbara Hockett in FY17 to provide support services to BACCWE including marketing, setting up courses, agency classroom sites and providing BACWA with the information needed to reimburse the students. Going forward BACWA will continue to provide invoicing for the program and disperse funds directly to participating students.

It is expected that these changes will result in significant decreases to the cost of the Water Operator Training Program and, therefore, reduce costs to the participating agencies in future years.

Support for BACWA AIR Committee

Bay Area Clean Water Agencies (BACWA)
Request for Proposal

5/23/2016

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Attachment A – Sample Agreement

Request for Proposals

Support for BACWA's Air Issues and Regulations Committee

Introduction

The Bay Area Clean Water Agencies (BACWA) is a regional organization created by a joint powers agreement among the five largest wastewater treatment agencies in the San Francisco Bay Area. BACWA represents Bay Area wastewater agencies by undertaking relevant scientific and technical studies and research, and by participating in the development of national, state, and regional policies. BACWA has several committees that provide a venue for our member agencies to meet and discuss issues of common importance.

One of BACWA's key committees is the Air Issues and Regulations (AIR) Committee. Over the years, the AIR Committee has updated Bay Area POTWs on important air quality and climate change regulatory information and worked with local and State regulatory agencies to ensure that the viewpoints of both large and small Bay Area POTWs are taken into account. The committee represents "one voice" to the regulatory agencies, speaking on behalf of the POTWs in the Bay Area, and public utilities statewide have benefited from our efforts. Past activities of the AIR committee can be viewed on the AIR committee website: <http://bacwa.org/committees/air-issues-regulations-committee-air/>

The AIR committee has proactively assisted in the development of regulatory programs by ensuring that they are based on good science and are physically and financially feasible for our public utilities. The committee shares information, develops comprehensive compliance programs, and forms solid relationships with each other and with our regulatory agencies. These relationships produce universally beneficial results: producing forward thinking input and strengthening our lobbying as regulations impacting Bay Area POTWs are constantly changing. Two of the AIR Committee's primary goals are to promote relationships with regulatory agencies, such as the Bay Area Air Quality Management District (BAAQMD), and to lead BACWA's initiative to monitor and influence climate adaptation policies in the Bay Area and California.

Request for Proposals

BACWA seeks the services of an individual(s), a firm, or team (Consultant) to provide support for the AIR Committee. The desired level of effort for the Scope of Work described below would cost \$50,000.

Scope of Work

Task 1 - Meetings with the AIR Committee

The selected consultant will support committee meetings to present information on current air issues, facilitate discussions between members, and to identify follow-on action items. They will be responsible for four formal meetings with the AIR Committee per year, including making arrangements for meetings and preparing agenda, meeting materials, and minutes. Under this task, the selected consultant will coordinate one meeting between BAAQMD staff and AIR Committee members as one of the quarterly meetings. The agenda will focus on issues of concern to AIR Committee members.

Task 2 - Track and Communicate Regulatory Issues, Technical Resources and Grant Opportunities

The selected consultant will monitor regulatory agencies involved in developing air quality and climate change regulations that may affect POTWs, including the Bay Area Quality Management District (BAAQMD), the San Francisco Bay Conservation and Development Commission, the California State Air Resources Board, and the U.S. Environmental Protection Agency. They will also track technical resources and grant opportunities related to air issues that are of interest to BACWA member agencies. The consultant will prepare and distribute informational material to members to keep them informed of the AIR Committee activities and future regulatory activities.

Task 3 - Coordination with other POTW Organizations

The selected consultant will perform special technical assignments under the direction of the AIR Steering Committee. Special technical assignments may include participating AIR Committee strategy meetings, meeting with BAAQMD or other agency staff, participating in agency workshops and hearings, drafting correspondence, and performing other related activities as directed by the AIR Steering Committee.

The selected consultant will also coordinate with other POTW organizations on issues of mutual interest. The purpose of this coordination will be to share useful information, identify areas of joint cooperation, and prepare common responses on key issues, where appropriate. POTW organizations whose objectives coincide with the AIR Committee include BACWA, SCAP, CVCWA, Tri-TAC, CWCCG, WERF, CASA, and NACWA. Activities may include periodic telephone conversations, meetings and exchange of published materials.

Optional Task 4 - Response on Special Assignments

ENGINEER will perform special technical assignments under the direction of the AIR Steering Committee. Special technical assignments may include leading a special workshop for AIR Committee or general BACWA members, participating in AIR Committee strategy meetings, or performing other activities not included in Tasks 1-3.

Qualifications

BACWA seeks the following qualifications in the consultant:

1. Technical knowledge and expertise in dealing with air regulatory issues impacting POTWs, including those on the Regional, State and Federal levels
2. Good working relationships with regulators
3. Experience with communicating regulations and technical issues, as well as regulatory advocacy
4. Experience with AIR permitting

Organization and Content of the Proposal

The Proposal can be submitted in the form of a letter proposal with attachments. Please limit the overall number of pages, including appendices and attachments to 20 pages or less. If added pages are needed please contact the BACWA Regulatory Program Manager with the rationale.

Suggested proposal outline.

Section	Contents
Cover Letter	Transmittal
1	Identification of Proposer
2	Team and Qualifications
3	Approach
4	Team Experience
6	Budget, including billing rate of key staff
7	Exceptions to Contract Terms and Conditions
8	Resumes of Key Staff

Proposal Evaluation Criteria

Criteria	Points
Project approach – How the Consultant intends to provide the needed services	20
Expertise of proposed individual on issues pertaining to the AIR Committee	30
Principal in Charge/Project Manager – Availability and responsiveness	20
Level of Effort – cost effectiveness of individual or team	30
Total	100

Submittal

Please submit proposal via email to Lorien Fono (lfono@bacwa.org) by 5pm on June 13, 2016.

Consultant Selection

Following receipt of proposals the BACWA Board and AIR Committee Chairs will evaluate the proposals and may elect to hold interviews (either in person or by phone) with one or more of the Proposers or forego interviews and simply select the best proposal. Following a selection, a contract will be negotiated. The contract will specify billing for services on an hourly basis as required to complete the Scope of Work.

The contract will begin July 1, 2016. The term of this agreement shall not extend beyond June 30, 2017 but may be extended for additional one year terms at BACWA's discretion for an additional two years, ending June 30, 2019. If, upon reaching the end of the term of the contract, the Board elects to extend the contract, the amount of the extended contract will be negotiated at the time the contract is extended. The BACWA standard consulting agreement will be used for this work (see attachment A)

ATTACHMENT A

Standard Agreement

BACWA's standard agreement for consulting services will be used for this contract

<http://bacwa.org/document/bacwa-standard-long-form-agreement/>

Draft Agenda for June 15 BACWA meeting with BAAQMD

Wednesday, June 15, 2016

10:00 am - 1:00 pm

Meeting Location:

BAAQMD Headquarters
375 Beale Street, Suite 600
San Francisco, CA 94105
Room TBD

Conference Call Info:

Call-in Number: 866-203-7023

Conference Code: 641-679-4064

1. Clean Air Plan/Regional Climate Protection Strategy
 - a. How will BAAQMD prioritize control measures for criteria pollutants vs. control measures for GHGs?
 - b. How will BAAQMD handle conflicting control measures?
 - c. Can BAAQMD provide any details on implementation of suggested control measures?
2. Concerns Over Organic Waste Diversion Projects – How does BAAQMD intend to respond to public complaints regarding wastewater treatment plants as related to organic waste diversion projects?
3. Digester Gas Venting – How is this currently being regulated?
4. Health Risk Screening Assessments (HRSA)
 - a. What are BAAQMD's plans to update HRSAs for existing facilities, in accordance with the latest statewide guidance?
 - b. Where does the meteorological data come from?
 - c. When are sources combined to do the HRSA?
 - d. What design parameters can a facility implement to limit risk values?
5. Hydrogen Sulfide Regulation – What are BAAQMD's primary concerns with regards to H₂S? For example, are they more concerned with sulfur emissions from a combustion stack or from a fugitive source?
6. Electronic Reporting – What is the status of BAAQMD's electronic reporting program?

Biosolids Committee – Report to BACWA Board

Biosolids Committee meeting on: April 21, 2016
Executive Board Meeting Date: May 20, 2016
Committee Chair : Karla Guevarra and Alicia Chakrabarti

Committee Request for Board Action: None.

Agenda Item : Committee Direction <ul style="list-style-type: none"> Following up from the last meeting, Alicia Chakrabarti asked the group about interest in a closed discussion forum separate from the BACWA Biosolids Committee email list and webpage. No attendees expressed interest, so the group will continue with the existing communication mechanisms.
Agenda Item : Bay Area Biosolids Survey <ul style="list-style-type: none"> The BACWA Biosolids Committee plans to conduct a survey based on the biennial biosolids survey conducted by Southern California Alliance of Publically Owned Treatment Works (SCAP). The results of the BACWA Biosolids survey would be posted on the BACWA website, possibly on the CASA website as well. Bob Gillette offered to help with the survey report.
Agenda Item : Regulations and Organics Processing <ul style="list-style-type: none"> Assembly Bill 1826 requires organics recycling of any business that generates more than 8 cubic yards of organic waste per week. This bill has implications for entities with excess anaerobic digestion capacity. The City of Sunnyvale is considering food waste or other organics receiving. CMSA increased their cogen operation from 7 hours per day to 20 hours with organics receiving. Alicia Chakrabarti provided an overview of EBMUD's current food waste program activities.
Agenda Item : Literature Review <ul style="list-style-type: none"> Karri Ving described biosolids management in the Pacific Northwest, which benefits from strong partnerships between agencies, academia, and farmers. In general, the regulators have been more involved due to public concerns, and the agencies have been pro-active with public communications. Bay Area agencies could benefit from academic relationships with the strong academic institutions in the area. Karri proposed a literature review to look at the impact of land application of biosolids in California. The group supported this endeavor. A smaller group volunteered to further develop this item: Zach Kay, Mary Martis, Taylon Sortor, Jacob Collins, and Rebecca Overacre.
Agenda Item: Lystek Organic Materials Recovery Center <ul style="list-style-type: none"> Jim Dunbar presented on the Lystek technology. The group toured the Lystek Organic Materials Recovery Center, which is nearing construction completion.
Next BACWA Biosolids Committee Meeting: July 21, 2016, location to be determined

Attendees:

Name/Title	Agency
Arvind Akela	Silicon Valley Clean Water
Greg Baatrup	Fairfield Suisun Sewer District
Bryan Berdeen	City of Sunnyvale
Alicia Chakrabarti	East Bay Municipal Utility District
Robert Cole	Central Marin Sanitation Agency
Jacob Collins	Lystek
Steven Delight	DSRSD
Jason Dow	Central Marin Sanitation Agency
Jim Dunbar	Lystek
Manon Fisher	SFPUC
Robert Gillette	Consultant
Karla Guevarra	SFPUC

Name/Title	Agency
Moses Hernandez	Lystek
Teresa Herrera	Silicon Valley Clean Water
Zachary Kay	City of Santa Rosa
Angela Lowrey	Delta Diablo Sanitation District
Mary Martis	HDR
Tommy McManama	Lystek
Kurt Meyer	Lystek
Rebecca Overacre	East Bay Municipal Utility District
Mike Prinz	City of Santa Rosa
Taylon Sortor	Fairfield Suisun Sewer District
Karri Ving	SFPUC
Robert Wilson	City of Petaluma

Committee Request for Board Action: None**36 attendees****Presentation on Sewer System Audit**

Lenny Rather of Oro Loma Sanitary District gave a [presentation](#) covering the agency's recent audit by Region 2 staff. The presentation covered the timeline for preparing for and following up after the audit. Oro Loma staff used the [checklist](#) provided by Region 2 staff and developed it into a presentation for the day of the audit about Oro Loma's program. The presentation was followed by a discussion among agencies about the differences in their audit experiences, which were mainly attributable to the different Region 2 staff performing the audit.

Private Sewer Lateral Programs

- *Private Sewer Lateral Survey* – The committee went over the [results](#) of the survey (summary attached), and agreed that they can be shared with the Regional Water Board. Any agency that does not wish to share their data should contact Lorien Fono.
- *CCMP Update* – Action 61 in the 2016 CCMP Update (attached) addresses prevention of raw sewage discharges to the Bay. Part of the Action pertains to dumping from boats in Marinas, and the other concerns private sewer lateral and ordinances for repair. The committee is concerned that SFEP does not have the knowledge to develop the tasks required by Action 61, and the committee is considering discussing the actions with SFEP staff. Lorien Fono will contact SFEP staff for a better understanding of how they plan to implement the tasks.

Citizen Lawsuits

The Regional Water Board is considering offering agencies penalties as protection against third party lawsuits for SSOs, if they can demonstrate that they are "well performing" collection systems. They do not have the staff resources to enforce upon each agency that has an SSO, and need help in having the necessary information to develop an enforcement action in the 60 days after an NOI is issued to a "well performing" collection system by a third party. They have asked BACWA to develop metrics to define "well-performing" collection systems.

The Committee has decided that they are not going to develop the metrics. This project is potentially a significant effort and will not necessarily lead to protection against third-party lawsuits. For example, Sonoma County Water Agency reported that they were issued a penalty by the Regional Water Board, and were still sued by RiverWatch. The committee does not object if the Executive Board wishes to pursue this strategy with other resources.

News Items

- Monterey Regional Water Pollution Control Agency to pay \$298,958 in penalties for sewage spill into Monterey Bay

Announcements of Upcoming Training, Conferences, and Meetings

- CWEA SF Bay Section training holds ongoing collection systems [meetings and training events](#). The summer meeting will be held July 29-30.
- Maintenance Superintendents Association Meeting - Sept 5-9, 2016 at the Berkeley Marina. They also have a monthly [workshop schedule](#).

Succession Planning

Justin Waples of Central Contra Costa Sanitary District volunteered to be the new committee chair beginning after the July 2016 Committee meeting. Erin Smith of the City of Alameda would like to continue as committee vice-chair.

Next Collection System Committee Meeting

Our next committee meeting will be held on July 14, at 1:30 PM, at the Marina Community Center in San Lorenzo. Note the change in venue. Jim Fisher at the State Water Board has been invited to present at the meeting.

27 responses

[View all responses](#)

Summary

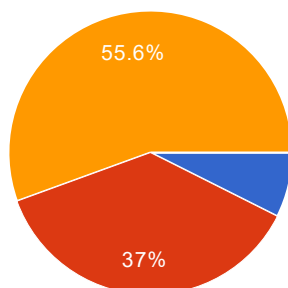
What is your agency's name?

EBMUD
Sonoma Valley County Sanitation District
VSFCD
West Valley Sanitation District
City of Hayward
City of Burlingame
City of Pittsburg
West County Wastewater District
City of San Carlos
City of Alameda
Union Sanitary District
City of Livermore
Rodeo Sanitary District
City of San Leandro
Richmond Municipal Sewer District
San Francisco Public Utilities Commission
City of Petaluma
Oro Loma Sanitary District
City of Sunnyvale
City of Brisbane
Mt. View Sanitary District
Ross Valley Sanitary District
UC Berkeley
Stege Sanitary District
Central Contra Costa Sanitary District
City of Fairfield

What is your agency's CIWQS ID Number?

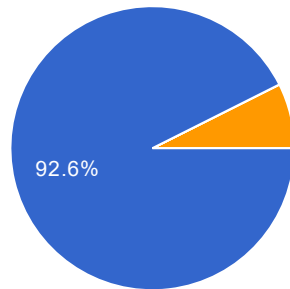
2SSO10196
2SSO10212
2SSO10217
2SSO10140
2 019014001
2SSO10099
2SSO 10113
2SSO10216
2SSO10177
2SSO10087
2SSO10209
2SSO010148
R2-2012-0027
019037001
2SSO10170
NA, NA, the combined sewer system is not subject to the SSO WDR.
R2-2011-0003
R2-2015-0018
2SSO10163
2SSO10200
2SSO10097
2SSO10158
2SSO10172
2SSO18100, 2SSO10210 and 2SSO18101
2SSO10198
213875
2SSO10134

Is your agency a wastewater treatment plant, collection system, or both?



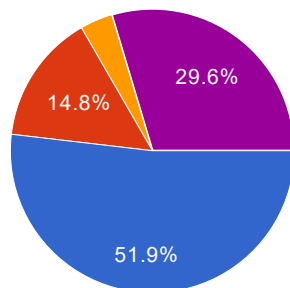
Wastewater treatment plant only	2	7.4%
Collection system only	10	37%
Both wastewater treatment plant and collection system	15	55.6%

Does your agency have an ordinance or other formal policy in effect that clearly defines ownership and responsibility for lateral maintenance, repair, and replacement?



yes	25	92.6%
no	0	0%
not yet, but in the process of developing one	2	7.4%

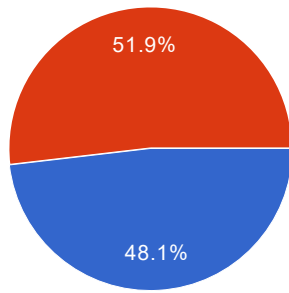
What portion of the lateral is owned by and the responsibility of your agency?



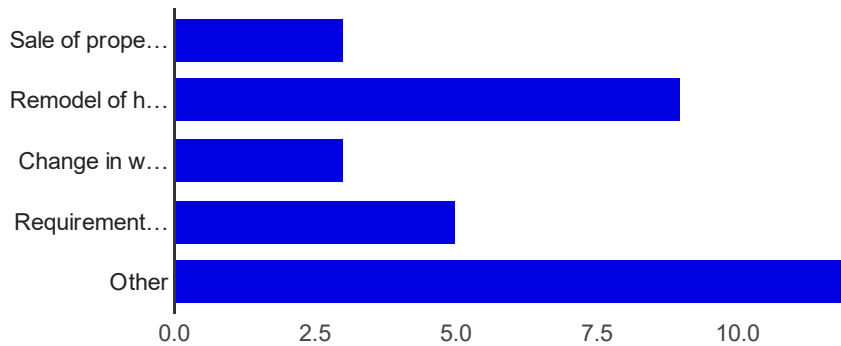
No portion, all owned by homeowner	14	51.9%
From the main to the property line	4	14.8%
From the main to the curb	1	3.7%
From the main to the house foundation	0	0%
Other	8	29.6%

Does your agency have an ordinance(s) or other formal policy in effect that requires a property owner to inspect his/her existing private sewer lateral(s)?

Yes	13	48.1%
No	14	51.9%

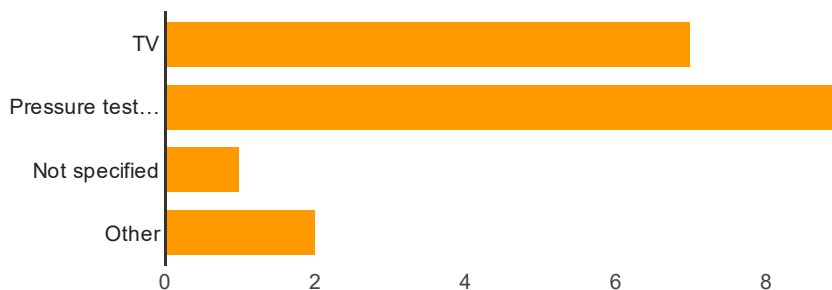


sewer lateral?



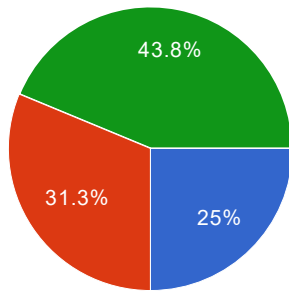
Sale of property	3	20%
Remodel of home or other property improvement	9	60%
Change in water meter	3	20%
Requirement by your agency as the result of an SSO, rehabilitation, or other issue or problem	5	33.3%
Other	12	80%

What type of inspection or testing method is required?



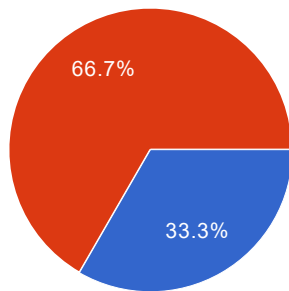
TV	7	43.8%
Pressure test (water or air)	9	56.3%
Not specified	1	6.3%
Other	2	12.5%

If your agency has an ordinance(s) or formal policy in effect that requires repair or replacement of the private sewer lateral, how much time is allotted to repair/replacement?



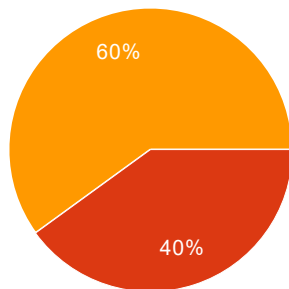
No time period is specified	4	25%
6 months	5	31.3%
1 year	0	0%
Other	7	43.8%

Does your agency have a formal policy or practice for replacing lower laterals when they rehabilitate the main or perform street rehabilitation?



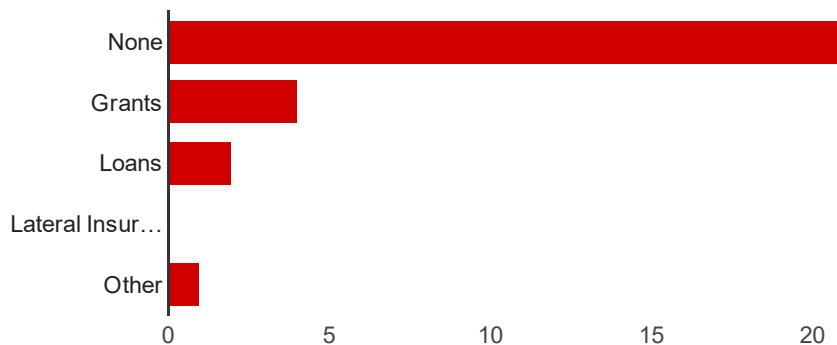
Yes	9	33.3%
No	18	66.7%

If your agency replaces lower laterals per the previous question, how much of the lateral is replaced?



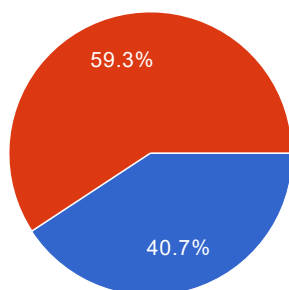
Spot repairs	0	0%
To the cleanout	4	40%
Other	6	60%

What kind of incentive program for lateral replacement does your agency have?



None	21	77.8%
Grants	4	14.8%
Loans	2	7.4%
Lateral Insurance Program	0	0%
Other	1	3.7%

Does your agency have a private sewer lateral education or outreach program?



Yes	11	40.7%
No	16	59.3%

Please provide a link to information on your website that describes your private sewer lateral program.

www.eastbaypsl.com

https://www.vsfcd.com/SitePages/upper_lateral_program.aspx

<http://www.hayward-ca.gov/CITY-GOVERNMENT/DEPARTMENTS/CITY-CLERK/MUNICIPAL-CODE/CH11A3-eff-040215.pdf>

<http://www.burlingame.org/index.aspx?page=351>

wcwd.org

<http://www.codepublishing.com/CA/SanCarlos/#!/SanCarlos13/SanCarlos1305.html#13.05>

<http://alamedaca.gov/community-development/building/private-sewer-lateral>

<http://www.unionsanitary.com/sewerRepairs.htm>

http://www.cityoflivermore.net/citygov/pw/public_works_divisions/wrd/sewers/rsp.htm

<http://www.rodeosan.org/Regulations/tabid/56/Default.aspx>

<https://www.sanleandro.org/depts/pw/wpcp/sewer.asp>

<http://www.ci.richmond.ca.us/1500/Sewer-Lateral>

<http://www.cityofpetaluma.net/wrcd/slrgp.html>

ebmud.com

<http://sunnyvale.ca.gov/Portals/0/Sunnyvale/CodesAndPolicies/3.03.01.pdf>

http://brisbaneca.org/sites/default/files/sewer%20lateral%20certificate%20brochure_160129.pdf

Grants -

<http://rvsd.org/Portals/0/Documents/pdfs/Lateral%20Compliance%20Committee/LRGP%20Gu1-2016.pdf> Loans -

<http://rvsd.org/Portals/0/Documents/pdfs/Lateral%20Compliance%20Committee/Lateral%20Lc1-2016.pdf>

<http://ehs.berkeley.edu/management-plans-and-permits> (click each individual SSMP for description)

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paul@stegesan.org
mlabella@centralsan.org
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Additional Comments

In our sanitation ordinance the property owner is responsible for maintaining the lateral from house to the sewer main. The District is responsible for repairing the lower lateral. We anticipate going before our Board later this year with an Ordinance for inspecting the lateral, using various triggers.

The District serves four municipalities and the County of Santa Clara. Representatives on our Board would have to agree to any change in Ordinance that requires the property owner to do anything with their private (upper) lateral. The District does not have any jurisdiction for any sewer component lying in private property, other than a sewer main that lies in a District easement.

6 of our 7 satellite collection system agencies replace lower laterals (main to property line cleanout) when they rehab the main.

Up until recently, we had a lateral grant program. Over a 10 year period we gave over \$250,000 to owners who replaced their lateral. The amount of each grant varied over the 10 years we were giving away the grants.

We are currently in the process of producing a video that addresses lateral responsibility, maintenance and what to do in case of an overflow.

The District will be moving forward with PL policy in the next couple of years.

PSL ordinance testing and inspection requirements clarification: Test required for: 1) property sale, 2) remodel valued at or above \$75K, or 3) addition of a bathroom.

Inspection (CCTV) required for: 1) private SSO or caused public SSO, 2) failure to maintain PSL, and 3) title transfer

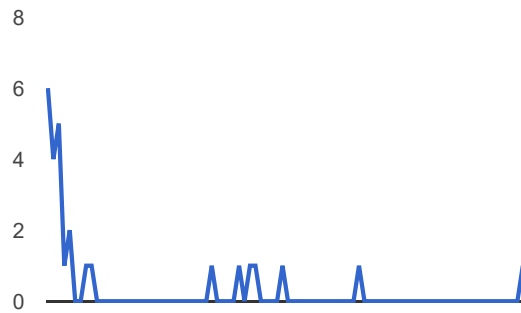
UC Berkeley owns and maintains all laterals within its boundaries for its three sanitary sewer collection systems in Berkeley, Richmond and Albany, so there's not really a formal "Private Lateral" program since we own everything. Under certain conditions, we may have agreements with third party developers who will be required to maintain their portion of their lateral and this is all defined on a case-by-case basis with each individual real estate contract.

Stege Sanitary District PSL program is owned and managed by EBMUD.

During sewer mainline rehabilitation/replacement projects, if a bad lower lateral is discovered, the District will replace a section (to the nearest good joint) to allow successful reconnection of the lateral to the new/rehabbed sewer mainline. Most of the cities in our service area notify residents to encourage replacement of their sewer laterals

(if needed) in advance of street rehab projects and before they impose street-cutting moratoriums.

Number of daily responses



ACTION 26

46

Decrease raw sewage discharges into the Estuary

Reduce the input of raw sewage into the Estuary by supporting and expanding sewer lateral repair programs and developing resources for marinas and recreational boaters to better manage sewage discharge. Create a mobile application for boaters to find pumpout stations and report repair needs.

TASK 26-1 Review sewer lateral repair ordinances currently in operation around the region, and target 30 percent of the uncovered jurisdictions for assistance in developing and passing a sewer ordinance modeled on existing regional programs such as those of Berkeley and the East Bay Municipal Utility District (EBMUD).

BY 2016 Complete review and identify jurisdictions.

TASK 26-2 Produce and promote a white paper that describes existing and potential funding mechanisms for residents to help pay for private sewer line repair and replacement, such as grant programs and financing strategies.

BY 2017 Complete white paper.

TASK 26-3 Publish an industry-supported, technically vetted sewage management manual for marinas.

BY 2019 Complete sewage management manual for marinas.

TASK 26-4 Develop a mobile app for boaters to report broken pumpouts, and for marinas to report pumpout use and operational status; pilot a mobile pumpout program for marinas and recreational boaters in the Oakland Estuary. Install 10 new dockside pumpout systems in marinas to increase the size and availability of the pumpout network.

BY 2017 Launch application and pilot program.

BY 2021 Install 10 new pumpouts.

BACKGROUND

Most of the sewage systems in the Bay Area are over 50 years old and in poor condition. General wear-and-tear and pressure from tree roots have caused pipes to crack over time. Cracks allow rain water to seep into the sanitary sewer system during storms (called inflow and infiltration, or I&I), which overloads the limited capacity of the treatment plants and leads to illegal discharges of raw sewage into the Bay. An analysis in 2010 found that only 15 out of 115 wastewater agencies in the Bay Area have enacted sewer lateral ordinances. Draft ordinances have been developed by the North Bay Watershed Association and other groups; other jurisdictions can use these as models. Financing for private sewer lateral upgrades can be an impediment to full implementation; alternative finance methods could speed replacement efforts and should be explored.

Recreational boating practices have the potential to quickly and significantly affect water quality if proper management and pollution prevention practices are not followed. According to a California Department of Boating and Waterways report (2011), over half of the vessels in San Francisco Bay have a sewage system on board. These systems can be either discharged overboard into the water, or pumped into a land-based sewage system for treatment. When discharged overboard, this concentrated sewage has dramatic localized effects on water quality, especially in shallow or low-flush areas like marinas and harbors. Richardson Bay is the only water body in the region with a pathogen TMDL (Total Maximum Daily Load) (see Glossary), passed in 2009. It cites vessel discharges as a significant potential source of pathogen pollution in the Bay. While outreach is a critical component of addressing this issue, a multi-pronged approach to reduce the likelihood of sewage discharge in the San Francisco Bay should be undertaken.

This CCMP action supports stronger local oversight of sewer lateral repair. It also supports efforts by marinas and boaters to properly manage sewage, and ensure that land-based sewage disposal facilities for boaters are abundant and functional.

OWNERS

SF Estuary Partnership (Tasks 26-1 through 26-4)

COLLABORATING PARTNERS

North Bay Watershed Association, SF Bay Regional Water Quality Control Board, various municipalities and wastewater agencies

Committee Request for Board Action: None

18 attendees, representing 12 member agencies

Adoption of Permits/Permit Amendments:

May - Mt. View – The TO contains requirements for additional nutrients monitoring in their marshlands due to concerns about algae and odors. It also requires enhanced reporting via a Marsh Management Plan. Overall, the agency is fine with it.

July – Napa – Napa is fine with their TO, which includes an updated discharge prohibition period.

Microplastics and CECs

- *Microplastics Workgroup Update* – Nirmela Arsem of EBMUD provided a [presentation](#) on the efforts of the Lab Committee Microplastics Workgroup, which is working to identify, characterize and quantify microplastics in wastewater effluent. She discussed the difficulties of digesting natural cellulose and other non-plastic materials. Additionally, some particles that were believed to be plastic were in fact oil and grease. The committee discussed the June 29 Microplastics Workshop that is being planned by SFEI, and how it is important that the methods be validated before attempting to answer other management questions.
- *RMP CECs Workgroup Meeting* – The workgroup met on April 15, and ranked potential projects as follows: 1) CEC strategy and continuation of baseline tracking; 2) PFAS synthesis; 3) imidacloprid study; 4) phosphate flame retardant study; 5) bisphenol study; 6) triclosan in small fish study. These projects will be carried out as funding allows. The RMP is looking to transition from grab sampling to passive sampling. Microplastics were not included in this discussion since they are being addressed through a separate effort.

Nutrients

- *Optimization/Upgrade Studies* – The consultant team released the first wave of facility reports on May 9 ([see schedule](#)). Agency point of contacts will be given three weeks to review and sign off on the report. BACWA is planning a workshop in June to go over the facility reports with Members. Agencies will also have the opportunity to hear from the Regional Water Board regarding how this information will be used.
- *Recycled Water Request for Information* – The consulting team will be requesting information from agencies about their 2015 recycled water use, as well as plans to increase recycled water use in the future. The information will be used to estimate nutrient loads removed through consumptive use. Future recycled water plans will be categorized as either “budgeted”, “master planned”, or “conceptual”. The Recycled Water Committee worked to make sure the data generated by this request can be used to satisfy the nutrient effort, the DWR request for information, as well as Urban Water Management Plans. The DWR plans to release its own survey later this spring, and the questions should be the same. Wastewater agencies will need to work with their recycled water distributors/retailers to make sure the information is accurate. The survey will also need to be sent to the upper Napa River dischargers and Ocean dischargers who are not covered by the nutrient watershed permit.
- *Annual Reporting* – HDR provided a [data worksheet](#) for agencies to input their data for the Nutrient Annual Report. BACWA has posted a [FAQ](#) to its website to answer questions about the worksheet. A question came up in committee about the deadline for reporting to HDR. The deadline will be added to the FAQ.
- *Technical Review of Scientific Documents* – BACWA has contracted with LimnoTech to provide review of the data related to the Assessment Framework and associated documents. The Regional Water Board indicated that SCCWRP may be willing to postpone publication of the Assessment Framework manuscript pending LimnoTech review.
- *Nutrient Technical Workgroup* – Call scheduled for June 3 to go over Science Plan update.
- *Next Watershed Permit* – The Regional Water Board has expressed interest in extending the term of the current Nutrient Watershed Permit in exchange for increased funding for the Science Plan. The EPA has indicated they would accept this approach.
- *Lower South Bay Synthesis* - The Lower South Bay Synthesis has been finalized and is [online](#). One finding is that chlorophyll a concentrations have declined in the last three years, after previously being on the rise.

Drought/Recycling

- *State General Order for Recycled Water* – The State Water Board proposed an addition to the General Order for Recycled Water that would require Regional permittees, such as those covered by 96-011 to be enrolled in the State General Order within three years of adoption. The Recycled Water Committee put together a [spreadsheet](#) comparing the State General Order and 96-011. BACWA is working on a [comment letter](#) opposing Finding 34 and requesting more time to comment. The letter also requests the ability to comment on the General Order beyond Finding 34, which is what the current comment period is restricted to. The letter also recommends that if Finding 34 is adopted that Regional Permittees should be deemed as enrolled without needing to go through the NOI process. The Regional Water Board supports this approach and is working on it with the State Water Board. In addition, it was recommended that monitoring of priority pollutants be left up to the discretion of the Regional Water Boards.

EPA Selenium Criteria for SF Bay Estuary

EPA has been in the process developing Selenium Criteria for the SF Bay Estuary for several years. This effort was the subject of litigation, which slowed down the process and led to the Regional Water Board development of the North Bay Selenium TMDL. The EPA plans to release its proposed criteria by the end of June 2016, which will be followed by a 60-day comment period. The fish tissue objective will likely be the same as their freshwater criteria, but it is unknown how they will translate it to a water column objective. This objective will be used in the development of a South Bay Selenium TMDL. The RMP Selenium Workgroup met on May 4, and agreed to recommend funding the selenium strategy, sturgeon derby fish tissue sampling event in FY17. The workgroup also recommended convening a selenium workshop using remaining RMP 2016 funds. Terry Young was in attendance and asked the RMP to develop a monitoring plan that would serve as an early warning system for increased selenium in the Bay. The Selenium workshop that the workgroup plans to hold at the end of August will specifically respond to EPA criteria and develop an early warning system monitoring plan.

Announcements

- Wheeler Institute White Paper on Citizen Lawsuits [now available](#). It contains substantial data on the occurrence and details of these lawsuits.
- WaterReuse and CASA both take “oppose unless amended” position on SB163 (Hertzberg), proposed bill that would require mandatory 100% recycling of effluent that reaches the Ocean.
- Toxicity – SCCWRP interlaboratory study shows high false positive rate for *ceriodaphnia* using TST.
- The AIR committee will be hosting their annual meeting with the Air District on June 15. All BACWA members are welcome to attend.

Report out from the 4/15 Executive Board meeting and 5/3 Joint meeting with the Regional Water Board

- Most items covered previously in the agenda.
- David Senn gave an update on the Science Plan at the Executive Board meeting.
- Santa Clara Valley Water District gave a presentation on their plans to increase IPR in the Lower South Bay at the Executive Board meeting.
- *Proposition 1 Proposal Concepts* – The two proposal concepts are to study 1) use of RO concentrate to nourish tidal wetlands; or 2) impacts of freshwater withdrawals from the South Bay and Lower South Bay. At the joint meeting, Tom Mumley expressed support for concept 1, and will set up a meeting with State Water Board staff to discuss.

Next BACWA Permits Committee Meeting: Tuesday, June 14, Water Board staff to attend.

Pretreatment Committee – Report to BACWA Board

Pretreatment Committee Meeting on: 4/14/2016
Executive Board Meeting Date:
Committee Chairs: Tim Potter, Kirsten Struve

Committee Request for Board Action: None

4/14/16 Pretreatment Committee Meeting – 28 in-person attendees and 4 phone attendees representing 20 agencies and Amelia Whitson from EPA (in person)

1. BACWA Updates
<ul style="list-style-type: none"> Confirmed committee leadership (continue with Tim and Kirsten as co-chairs) Update on CEC events – Tim to provide more information Training budget for next year included in committee budget
2. Committee Projects
<ul style="list-style-type: none"> Field pH for compliance monitoring letter to RWQCB – comments were incorporated, Tim to finalize and send to Lila Tang Mobile surface cleaners – committee comments incorporated. Kirsten to ask for contacts from each agency. Suggestion to post finalized factsheet on baywise.org TTO limit approach: update on discussions with EPA related to TOMP sampling exemption applicability to POTWs Resource template – work ongoing
3. Debrief PCA/PCI
<ul style="list-style-type: none"> 4 Bay Area programs slated for audits in June Discussion on prior audits included local limits reevaluation study, issues with getting responses after audits, documentation for flow proportional sampling, IU survey, need for SNC article (rather than proof of publication)
4. Approaches to Dewatering
<ul style="list-style-type: none"> Discussion of typical approaches: all agencies issue permits (one-time/special) and most charge. All encourage storm drain discharge where appropriate Other discussion items: flow/capacity issues and capacity review, hydrostatic testing may have mercury, monitoring and treatment requirements, salinity issues, flow meter
5. Approaches to accepting treated groundwater
<ul style="list-style-type: none"> Most agencies have groundwater permits, require monitoring data, charge for discharge Other discussion items: capacity issues, prohibition on surface impoundments, salinity limits
6. Approach to Restoration Companies
<ul style="list-style-type: none"> Some agencies have processes for permitting such companies (lead abatement, asbestos, etc.).
7. Next meeting: mid-August – USD

Future Meeting Topics

- Resource Template – check in
- Updates on pH letter
- PCI/PCA debrief
- Mobile washer: regional BMPs – check in
- Restoration companies
- Food digesters used by food service facilities (e.g. Costco, Cheesecake Factory)

Committee Request for Board Action: None

Detailed notes from meetings are posted [online](#).

22 attendees (including 8 on phone) representing 11 member agencies

Committee Succession

Rhodora Biagtan (DSRSD) and Leah Walker (Petaluma) will remain as committee chair and vice-chair for one more year, but are recruiting replacements.

Recycled Water Survey

BACWA will be updating its 2011 Bay Area Recycled Water Survey as part of the work associated with the Nutrient Watershed Permit. The State Water Board and DWR are also requesting recycled water data and plan to release a survey later this spring. The committee's goal is to report standard information to each entity requesting the data to minimize effort for the agencies. The consultant in charge of the optimization/upgrade studies will be distributing the survey to agencies with copies of their draft facility reports. The committee reviewed a draft of the Recycled Water Survey and added the following to the document:

- Since the survey is being distributed to wastewater agencies, it should specify that agencies need to communicate with their retailers/distributors to verify the numbers
- A request for the names of the retail/distribution agencies were added to the template.
- The survey will specify that the numbers used to report 2015 recycled water use will be the same as in the 2015 Urban Water Management Plans

State General Order for Recycled Water Use

The State Water Board has proposed a [Water Reclamation Requirements for Recycled Water Use](#) (State General Order) that will replace [2014-0090-DWQ General Waste Discharge Requirements for Recycled Water Use](#). The committee produced a [spreadsheet](#) comparing the General order to R2-96-011. Several areas, such as reporting frequency, are left to the discretion of the Regional Water Board. However, priority pollutant monitoring is required for all permittees, which will partially reverse the monitoring reductions allowed by the Alternate Monitoring Plan that was adopted in March 2016.

The committee discussed developing a BACWA comment letter opposing Finding 34. The letter requested more time to comment, and the ability to comment on the General Order beyond Finding 34, which is what the current comment period is restricted to. The letter also recommended that if Finding 34 is adopted, then Regional Permittees should be deemed as enrolled without needing to go through the NOI process. The Regional Water Board supports this approach and is discussing it with the State Water Board. The letter also requests that priority pollutant monitoring be left to the discretion of Regional Water Boards.

Next Meeting – Tentatively July 3, 2016 from 10:00 am to 12:00 pm, 2nd Floor Small Training Room at EBMUD Headquarters.



Executive Director's May 2016 Report

NUTRIENTS:

Completed a variety of tasks and activities associated with BACWA's interests on nutrients and collaborating with the Water Board including:

- Attended and participated in conference calls as well as the 19th meeting of the Steering Committee's Planning Subcommittee and provided BACWA in-kind services by serving as scribe. Following the meeting prepared detailed meeting minutes and summary of action items.
- Chaired the monthly CMG meetings with the main topic being the review of the first Wave of reports for the individual POTWs which included cost estimates for optimization and upgrades.
- Coordinated with the OP/Upgrade consulting team on technical and administrative issues.
- Hosted the first bi-weekly conference call with Limnotech on the review of the Assessment Framework documents.
- Developed a proposed agenda for a Workshop to review the Optimization/Upgrade study result with the BACWA membership.

BACWA BOARD MEETING AND CONFERENCES:

- Worked with staff in preparing for the May BACWA Board meeting including reviewing the agenda with the Board Chair.
- Prepared for and attended the BACWA monthly Board meeting in April.
- Organized and attended the bi-monthly Joint Meeting with the Water Board in May.
- Continuing to track all action items to completion.

PERMIT COMMITTEE:

- Attended the monthly Permit Committee meeting and discussed key issues of importance to the BACWA membership.

ASC/SFEI:

- As a member of the Executive Committee, coordinated with SFEI Executive Director on Board activities.

BAY PLANNING COALITION:

- Participated in planning conference calls for the Spring Summit seminar.
- Represented BACWA at the annual BPS Spring Summit and discussed climate change and sea level rise issues and impacts on POTWs.



**Executive Director
May 2016 Report**

BAY AREA BIOSOLIDS TO ENERGY:

-Met with the chair of the coalition to discuss the future direction of the group and the potential role for BACWA in assisting in administration of the effort.

BIOSOLIDS COMMITTEE:

-Worked with the Committee Chair and provided guidance on a potential request for funding to undertake a survey and literature review on Bay Area biosolids.

FINANCE:

- Reviewed the monthly BACWA financial reports with the AED.
- Continued coordinating with the AED in tracking the revenues coming in from the BACWA FY 16 member invoices.
- Worked with the AED to prepare the BACWA FY 17 budget.

AIR COMMITTEE:

-Coordinated with the AIR Committee leadership and the RPM on the development of a Request for Proposal for providing technical services to the Committee in FY 17.

RECYCLED WATER COMMITTEE:

- Participated in the discussion of determining the best project for submittal of a Prop 1 grant for funding a recycled water research project.
- Submitted a comment letter to the State Water Resources Control Board requesting consideration of BACWA concerns on the new General Order.

LAB COMMITTEE:

-Coordinated with the Lab Committee Chair on progress on developing protocols for testing wastewater effluent for microplastics.

ADMINISTRATION:

- Held the monthly BACWA staff meeting to coordinate and prioritize activities.
- Signed off on invoices, reviewed correspondence, prepared for upcoming Board meeting, responded to inquiries on BACWA efforts, oversaw updating of web page and provided general direction to BACWA staff.
- Worked with the RPM in the preparation of the monthly BACWA bulletin.
- Coordinated with the AED to plan activities and review duties, schedules, and priorities.
- Developed and responded to numerous emails and phone calls as part of the conduct of BACWA business on a day-to-day basis.



BACWA
BAY AREA
CLEAN WATER
AGENCIES

**Executive Director
May 2016 Report**

MISCELLANEOUS MEETINGS/CALLS:

- EBMUD's program manager on Prop 50 and Prop 84
- BACWA Chair and Committee Chairs on items that arose during the month
- Water Board staff on coordinating the nutrient activities
- other misc calls and inquiries regarding BACWA activities
- participated in coordination calls with the HDR project manager
- responded to Board member's requests for information



BACWA BOARD CALENDAR

June 2016 to May 2017

DATE	AGENDA
6/?/16	<p>Nutrient Optimization/Upgrade Workshop Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono</p> <p>Optimization/Upgrade Studies Early Actions</p>
6/17/2016	<p>Consent</p> <p>Monthly Board Mtg Items due: 6/10 Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono; Hull</p> <p>Previous Board Meeting Minutes (AED) Monthly Treasurer's Report (EBMUD Accounting)</p> <p>Authorizations & Approvals Approval: FY17 Agreements Approval: Transfer AIR Fund to BACWA Fund in FY17</p> <p>Other Business - POLICY/STRATEGIC Discussion: HDR Quarterly Update on Optimization/ Upgrade studies Discussion: WB Joint Meeting Draft Agenda Presentation: A Navarret Award Use (Jencks/Ving)</p> <p>Other Business - OPERATIONAL</p> <p>Reports Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM)</p>
7/?/16	<p>BAAWMD Workshop Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono</p>
7/?/2016	<p>Joint Meeting Items due: ? Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono</p> <p>Other Business: Discussions Presentation: Risk Reduction</p>
7/15/2016	<p>Consent</p> <p>Monthly Board Mtg Items due: 7/8</p> <p>Previous Board Meeting Minutes (AED) Monthly Treasurer's Report (EBMUD Accounting)</p>

Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono; Hull

Authorizations & Approvals

Approval: Annual Nutrient WS Payment
Approval: FY16 Closeout & FY17 Amended Budget
Approval: FY17 Agreements

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Pardee Technical Seminar
Discussion: RMP Update (Phil Trowbridge)
Discussion: WB Joint Meeting Debrief
Discussion: Risk Reduction Update

Other Business - OPERATIONAL

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)

8/19/2016 Consent

Monthly Board Mtg

Items due: 8/12

Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono; Hull

Previous Board Meeting Minutes (AED)
Monthly Treasurer's Report (EBMUD Accounting)
Update on FY18 Invoicing

Authorizations & Approvals

Approval: Solano Comm College Agrmt - Fall 2016

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Pardee Technical Seminar
Discussion: WB Joint Meeting Debrief

Other Business - OPERATIONAL

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)

8 or 9/?/2016

Joint Meeting

Items due: ?

Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono

Other Business: Discussions

9/16/2016 Consent

Monthly Board Mtg

Items due: 9/9

Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono; Hull

Previous Board Meeting Minutes (AED)
Monthly Treasurer's Report (EBMUD Accounting)

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Pardee Technical Seminar

Discussion: Annual Meeting Planning

Other Business - OPERATIONAL

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

10/12-14/2016

Pardee Technical Seminar

Pagano; Connor; Horenstein;

Ervin; Bailey

Williams; Fono; Hull

11/18/2016 Consent

Monthly Board Mtg

Items due: 11/11

Pagano; Connor; Horenstein;

Ervin; Bailey

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Treasurer's Report (EBMUD Accounting)

FY16 Annual Report & Audited Financials

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: Pardee Debrief & Survey

Discussion: Draft Agenda Joint Meeting with WB

Discussion: Biannual Update on CWCCG (SDeslauriers)

Other Business - OPERATIONAL

Discussion: Annual Meeting Planning

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

12/?/2016

Joint Meeting

Items due: ?

Pagano; Connor; Horenstein;

Ervin; Bailey

Williams; Fono

Other Business: Discussions

12/16/2016 Consent

Monthly Board Mtg

Items due: 12/9

Pagano; Connor; Horenstein;

Ervin; Bailey

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Treasurer's Report (EBMUD Accounting)

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: HDR Quarterly Update on Optimization/ Upgrade studies

Discussion: WB Joint Meeting Debrief

Other Business - OPERATIONAL

Discussion: FY18 Budget Planning Schedule

Discussion: Annual Meeting Planning

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

1/?/2017**Annual Members Mtg**

Pagano; Connor; Horenstein;

Ervin; Bailey

Williams; Fono; Hull

2/?/2017 Consent**Monthly Board Mtg**

Items due: 2/12/15

Pagano; Connor; Horenstein;

Ervin; Bailey

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Treasurer's Report (EBMUD Accounting)

Authorizations & Approvals

Approval: Solano Comm College Agrmt - Spring 2016

Other Business - POLICY/STRATEGIC

Presentation: CPSC Update (Heidi Sanborn)

Other Business - OPERATIONAL

Discussion: FY2017 Budget Planning

Discussion: Annual Meeting Debrief

Announcements

Pardee Seminar Dates

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

3/?/2017**Monthly Board Mtg**

Items due: 3/?

Pagano; Connor; Horenstein;

Ervin; Bailey

Williams; Fono; Hull

Consent

Previous Board Meeting Minutes (AED)

Monthly Treasurer's Report (EBMUD Accounting)

Authorizations & Approvals**Other Business - POLICY/STRATEGIC**

Discussion: WB Joint Meeting Debrief

Discussion: HDR Quarterly Update on Optimization/ Upgrade studies

Discussion: Draft Agenda April Water Board Jt Mtg

Presentation: CPSC Update (Heidi Sanborn)

Other Business - OPERATIONAL

Discussion: Second Draft of FY17 Budget

Announcements

Conflict of Interest Filing Deadline - April 1st

	<u>Reports</u> Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM)
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4/?/2017 Monthly Board Mtg Items due: 4/? Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono; Hull	<u>Consent</u> Previous Board Meeting Minutes (AED) Monthly Treasurer's Report (EBMUD Accounting) <u>Authorizations & Approvals</u> Approval: FY18 Budget <u>Other Business - POLICY/STRATEGIC</u> Discussion: WB Joint Meeting Draft Agenda <u>Other Business - OPERATIONAL</u> Discussion: Succession Planning FY18 <u>Reports</u> Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM)
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5/?/2017 Joint Meeting Items due: Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono	<u>Other Business: Discussions</u>
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5/?/2017 Monthly Board Mtg Items due: 5/? Pagano; Connor; Horenstein; Ervin; Bailey Williams; Fono; Hull	<u>Consent</u> Previous Board Meeting Minutes (AED) Monthly Treasurer's Report (EBMUD Accounting) <u>Authorizations & Approvals</u> Approval: FY18 Amendments/Agreements Approval: Officers: Chair & Vice-Chair Approval: BACWA Reps to ASC/SFEI Governing Board Authorization: Legal Support Amendments <u>Other Business - POLICY/STRATEGIC</u> Discussion: Biannual Update on CWCCG (SDeslauriers) Discussion: WB Joint Meeting Debrief Discussion: Pesticides Update (Kelly Moran) <u>Other Business - OPERATIONAL</u> Request for updated Board Designee Letters for FY17 <u>Reports</u> Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED)
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***CURRENTLY
UNSCHEDULED
& SIGNIFICANT***

- * Aug 2017: Discussion: FY18 Arlene Navarrett Award
- * BACWA Membership Engagement Opportunities
- * Tech Seminar/Workshop: CCCSD Cogen explosion need to schedule
- * SFPUC force main leak and repair, need to schedule
- * Chlorine Residual Analyzer Investigation
- * Suggestions for Monthly Meeting Guest Speakers/Presenters: i.e. Jim McGrath, State Water Board



BACWA ACTION ITEMS

Number	Subject	Task	Deadline	Status
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Action Items from April 15, 2016 BACWA Executive Board Meeting

2016.4-75	BACWA Bulletin in May	Add Bay Planning Coalition Summit (RPM)	4/30/2016	completed
2016.4-74	Joint Meeting with WB	Move Prop 1 proposal up in Agenda (RPM)	4/18/2016	completed
2016.4-73	BACWA Bulletin in May	Opt/Upgrade and HDR Annual Reporting Data Template and FAQ Update(RPM)	4/30/2016	completed
2016.4-72	Watershed Permit Survey	Add pros/cons and context within Capital Improvements & NNLI Costs (ED)	6/15/2016	
2016.4-71	Opt/Upgrade	Schedule workshop for members in summer (RPM/AED)	5/15/2016	
2016.4-70	LimnoTech Agreement	Add Schedule to SOW (ED/AED)	4/18/2016	completed

Action Items Remaining from Previous BACWA Executive Board Meetings

2016.3-65	Proposition 84	Develop agreement between BACWA & ABAG to transfer admin responsibilities (AED/Paul Gilbert-Snyer)	4/30/2016	pending
2016.3-62	Pharmaceutical take-back program	Develop BACWA Comment Letter through BAPPG Committee (Karin North) RPM	4/6/2016	pending
2016.3-61	Membership Policy	Develop policy for out of region agency membership (ED)	6/30/2016	pending
2016.3-60	Microplastics	SFEI workshop - obtain Agenda and post to BACWA website (AED)	5/15/2016	pending
2016.3-59	Microplastics	Provide Draft Concept to BAPPG for a Grant Proposal on source reduction (Karin North)	4/6/2016	pending
2015.12-36	Microplastics	Develop Proposal for Consultant Assistance (Nirmela Arsem)	4/30/2016	pending

FY 16: 63 of 75 Action Items completed.
FY 15: 90 of 90 Action Items completed.
FY 14: 128 of 128 Action Items completed.
FY 13: 67 of 67 Action Items completed.



Regulatory Program Manager's Report to the Board

April 15, 2016 – May 18, 2016

Prepared for the May 20, 2016 Executive Board Meeting

NUTRIENT SUPPORT: Participated in CMG conference call. Worked with Recycled Water Committee on recycled water information request for the Optimization/Upgrade Studies. Updated BACWA Nutrient webpage. Developed "Frequently Asked Questions" page for Annual Reporting Nutrient Data Worksheet. Posted tentative Facility Report distribution schedule for optimization/upgrade studies.

BACWA BULLETIN: Drafted and distributed May BACWA Bulletin.

ALTERNATIVE MONITORING TENTATIVE ORDER: Communicated with member agencies about implementation.

PROPOSITION 1 PROPOSAL: Communicated with SFEI staff, David Sedlak of ReNUWI, and Santa Clara Valley Water District staff to get their input on the proposal concepts.

COMPREHENSIVE CONSERVATION AND MANAGEMENT PLAN (CCMP): Reviewed and commented on draft Recycled Water Action in CCMP. Reviewed Action 61 addressing raw sewage inputs to the Bay.

EPA SELENIUM OBJECTIVES – Communicated with Regional Water Board staff about proposed EPA criteria for selenium to be published in June.

MICROPLASTICS – Participated in conference call with SFEI to plan June 29 workshop.

STATE GENERAL ORDER FOR RECYCLED WATER: Worked with Recycled Water Committee chair to draft BACWA comment letter on Finding 34 in proposed State General Order for Recycled Water.

Hg/PCB RISK REDUCTION – Reviewed grantee invoices and communicated with Regional Water Board staff about planning a meeting for them to present their progress report.

COMMITTEE SUPPORT:

AIR – Developed draft RFP for consultant support of Committee for FY 17.

BAPPG – Drafted and posted committee meeting notes.

Collection Systems – Finalized survey on whether to develop metrics. Finalized Private Sewer Lateral survey. Attended meeting, and drafted agenda and Board Report for meeting.

Permits – Attended meeting, and drafted agenda and Board Report for meeting.

Recycled Water – Attended meeting, and drafted Board Report for meeting.

Executive Board – Drafted agenda and meeting summary for joint meeting with Regional Water Board on 5/3. Followed up with Regional Water Board Staff by sending Wheeler Institute White Paper on Citizen Suits. Contributed to meeting minutes for 4/15 Executive Board meeting, and 5/20 Executive Board meeting packet.

Staff Meeting – Met with BACWA staff, worked on filing system for BACWA documents.

MEETINGS ATTENDED: Microplastics conference call with SFEI (4/26), Joint meeting with

RWB (5/3), Recycled Water Committee (5/4), Staff meeting (5/10), Permits Committee (5/10), Collection Systems Committee (5/12), CMG conference call (5/13), Review of technical documents conference call (5/13).

BARR DROUGHT TASK FORCE

Meeting Highlights, April 15, 2016

The first meeting of the Drought Task Force began with introductions from representatives of the 23 organizations attending. Participants shared their reasons for engaging with the Bay Area Regional Reliability effort, many expressing common interests in better drought preparation, water conservation, regional coordination, improved protections for ecosystems, greater reliance on local sources (including recycled water and stormwater), and advancing sustainability for both the environment and the economy. These comments are summarized below.

TF Members' Perspectives – What is your interest in the BARR DCP?

Water in the West (Patricia Gonzales) - Find opportunities to tailor research to make it useful to regional resilience and reliability

Bay Area Council (Adrian Covert) - Learn and advocate cost-effective ways to improve water supply and connect utilities

East Bay Leadership Council Water Task Force (Bob Whitley) - Encouraging broader regional approach to water supply reliability, longer-term economic reliability, not just about drought but broader

PPIC (Henry McCann) - Stay closer to what's happening in own backyard in drought response and preparedness. PPIC has a new project and survey that's relevant (focused on lessons learned from drought and development of resilient supplies).

BACWA (Roger Bailey) - Wastewater agencies have a key role in supply reliability, and RW is key part of future portfolios

SPUR (Laura Tam) - Worked over last few years in water supply reliability, recycled water, and water use efficiency. Interested in promoting water supply reliability and environmental benefits

NRDC (Kate Poole) - Develop real integrated plan to leverage benefits and assets; stop treating droughts as emergencies; don't compromise environmental protections due to drought.

Alameda Creek Alliance (Ralph Boniello) - Importance of watershed integrity and fisheries; water supply shouldn't compromise environment.

Restore Hetch Hetchy (Spreck Rosekrans) - Feels this process is overdue. Interested in overcoming agency boundaries/service areas and institutional challenges

Pacific Institute (Matt Heberger) - Interested in solutions that promote sustainability and support the economy. BARR nexus with ongoing relevant projects at the Pacific Institute (e.g., work with low income/disadvantaged communities, methods to improve demand forecasting)

Wholly H2O (Elizabeth Dougherty) - Water reuse and recycling shouldn't be "alternatives" but primary water sources. Interested in how reuse will be factored in

Association of Bay Area Governments (ABAG) (Michael Germeraad) - Relationships between water districts and cities.

ABAG (Miriam Chion) - Noted growth of regional population and interested in how to deal with associated water needs. Build bridges between land use and water planning.

Tuolumne River Trust (Peter Drekmeier) - Encouraging water use efficiency to leave water in river. TRT very active in WUE and coordinates Silicon Valley WUE awards

Bay Planning Coalition (Brianne Riley) - Sustainable commerce and infrastructure in Bay Area, sustainable/reliable water supplies for customers particularly in industry (to keep jobs).

Contra Costa Climate Leaders (Julie Heath) - Explore how to improve water resources and connect to elected leaders

Climate Readiness Institute (Colleen Kredell) - Located in Berkeley but work regionally. Interested in supporting research on climate adaptation issues and identifying where there are research gaps from practitioners' perspectives and how to fill the gaps.

Sierra Club, SF Bay Chapter (Sonia Diermayer) - Interested in encouraging the sharing of resources and contribution to efficiencies. Ensure conservation and reuse play major role. Reduce Bay Area dependency on imported supplies, and develop resiliency. Climate change will likely increase drought and make it more the norm.

Sierra Club, Loma Prieta Chapter (Katja Irvin) - Water committee, focused on water supply issues; developing statewide policies

California Sportfishing Protection Alliance (Chris Shutes) - Interested in planning for drought, not reacting to it. Importance of interagency coordination. Drought is often used as reason stream flow improvements not possible. With regional approach, resolve this issue more equitably and sensibly

Western Recycled Water Coalition (Angela Lowrey and Jayne Strommer) - Developing 34 projects of recycling water with its members. Focus on funding for projects. Promoting recycled water as key component of plan. Interested in speaking with one regional voice and collaborating at state and federal levels.

The BARR partner agency members then introduced themselves, and the project team described the BARR framework and origins of the effort. Task Force members raised a number of questions about coordination with other local agencies (including land use), the scope of the effort, and the role of the Task Force. Project staff clarified that a Drought Contingency Plan is intended to be the first of two phases in BARR, but additional funding is not yet identified for later work. There are no “off limits” topics for Task Force members to bring up, but time and funding constraints will limit the scope to actionable elements that the partner agencies can develop.

The partner agency staff then held a panel discussion that described each agency’s water supply profile and plans to diversify supplies, with a regional overview provided by the project team (see attached slides). The discussion continued after lunch with partner agency staff identifying their agency’s “two greatest vulnerabilities and opportunities”. Common vulnerabilities included prolonged drought, State Water Project and Central Valley Project reliability, climate change impacts, and the potential for stranded assets. Opportunities were recognized in improved regional coordination, increased reliance on recycled water and stormwater, transfers, and improved conveyance including interties. These remarks are summarized below.

BARR Partners’ Perspectives – What are your agency’s top two vulnerabilities and opportunities?

SCVWD (Tracy Hemmeter)

Challenges: Dry years and droughts, enough supply and storage. Climate change uncertainty (demands, supplies, increased variability)

Opportunities: Potable reuse/recycling, additional stormwater capture and reuse, regional collaboration

ACWD (Thomas Niesar)

Challenges: Vulnerability due to State Water Project/Delta (potential supply interruptions, conveyance capacity of South Bay Aqueduct), uncertainty about future demands (providing reliable supplies and avoiding stranded assets due to changes in demand)

Opportunities: Increased storage for surplus supplies (Los Vaqueros, Del Valle), regional water supply coordination, easier wheeling of water (minimize barriers to sharing water supplies)

CCWD (Maureen Martin)

Challenges: Delta supply vulnerabilities (interruptions, salinity, fisheries/environmental protections)

Opportunities: Funding opportunities and partnering with other agencies with sense of shared resources to develop reliable and cost-effective solutions

EBMUD (Tom Francis)

Challenges: Supply vulnerability due to multi-year drought challenges and further exacerbated by climate change. Central Valley Project curtailments. Aging infrastructure.

Opportunities: Regional cooperation (formerly a challenge/competition), including existing and new infrastructure. Large infrastructure projects, like Freeport, open new opportunities not available in past (led to recent transfer agreements).

Zone 7 (Amparo Flores)

Challenges: Declining reliability of State Water Project, not limited to allocations but also conveyance and transfer agreements (including Semitropic) for both existing and future. Reaching agreement on and implementing Delta solutions.

Opportunities: Chain of Lakes (former mining pits to be converted to recharge/storage facilities), but tied to mining activities and their conversion schedule.

BAWSCA (Michael Hurley)

Challenges: Dry year supplies. BAWSCA is a beneficiary of a very reliable system, but BAWSCA does not have its own facilities. So dependent on other agencies. Likely cannot take advantage of “just in time” transfers.

Opportunities: Plan in advance for leveraging existing facilities. Partnerships to increase storage.

SFPUC (Manisha Kothari)

Challenges: Supply vulnerability, including regulatory requirements and changes (e.g., flow release, relicensing) and seismic. Dry years becoming the norm. Challenges with interties.

Opportunities: Leveraging existing interties to move water more efficiently, and dealing with the challenges (legal, physical). Significant variation of needs and supplies/facilities among the BARR agencies – leverage to increase regional benefits.

MMWD (Carl Gowan)

Challenges: Increased frequency of droughts; seismic concerns (all lakes are in a seismic zone)

Opportunities: Water imports/transfers (ability to use mix of sources/facilities). Longer-term, direct potable reuse (regulatory changes and public acceptance are key).

Several issues were raised over the course of the day that may not be able to be addressed in the BARR process, but were identified as “parking lot” subjects that might be addressed in other venues. These included:

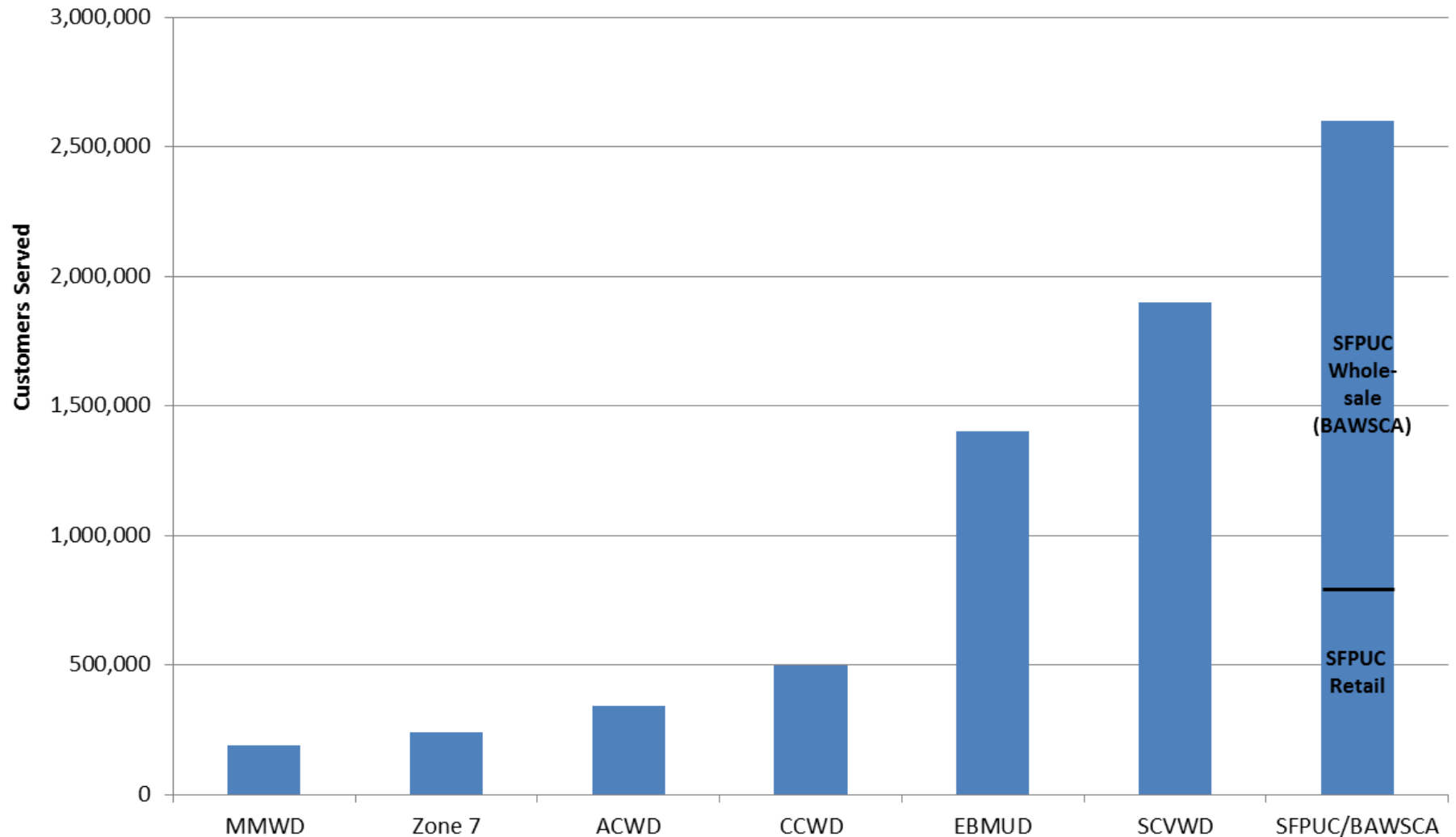
- Innovation & technology
- Tiered rates for wholesale customers
- Agricultural water use
- Legislative action
- Analytical tools, methods, and models

The meeting concluded with observations from Task Force members about the need for continued conservation, the challenge of funding, the need for groundwater management, and the examples to follow from countries like Israel.

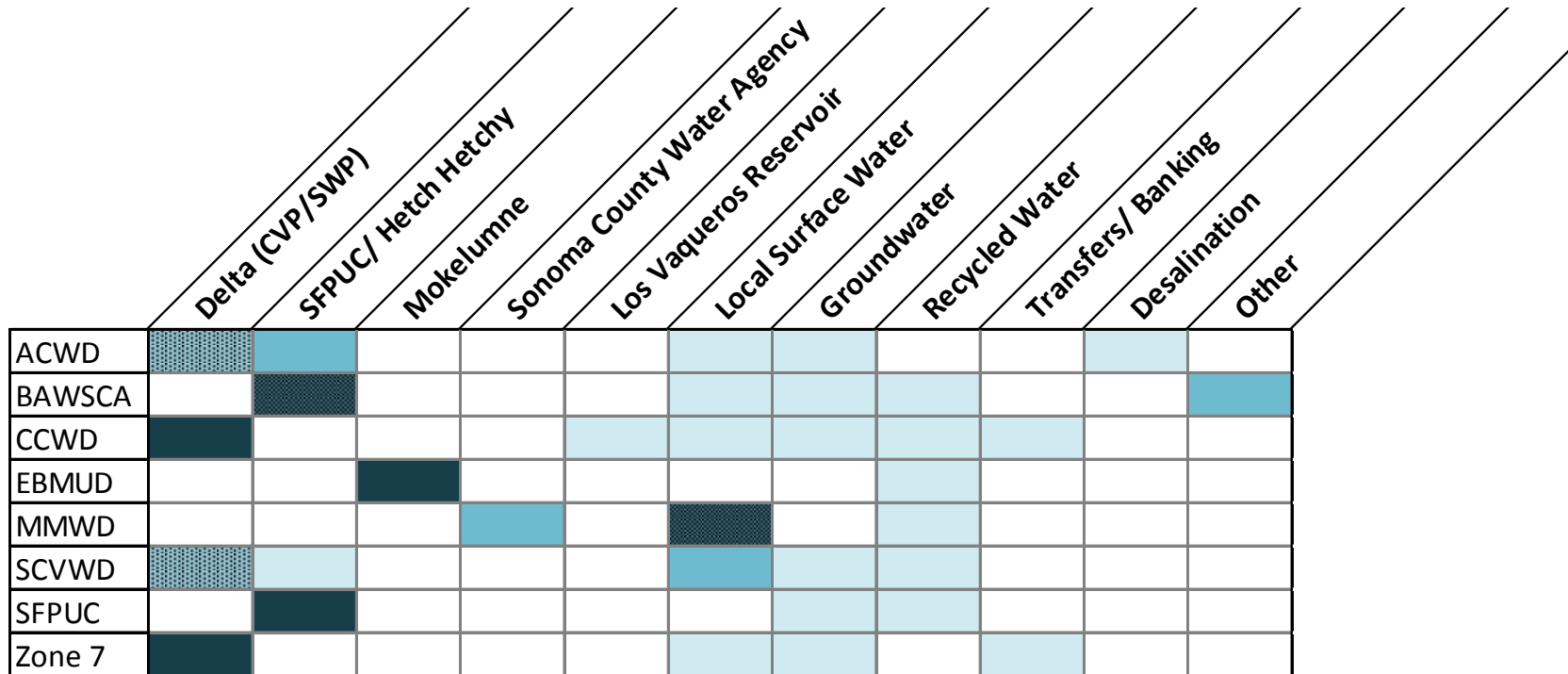
The project staff then identified the next steps to:

- provide a high-level summary of the meeting;
- create a website for BARR;
- distribute the first technical memorandum in the July/August timeframe; and
- schedule the next Task Force meeting in late August or early September.

BARR Partner Agencies collectively serve over 6 million customers



BARR Partner Agencies' Existing Supplies



*All BARR Partner Agencies implement active conservation programs. However, for the BARR DCP, conservation savings will be reflected in demands.

Legend		
	0%	15%
	16%	30%
	31%	50%
	51%	70%
	71%	100%

BARR DCP Task Force Meeting - April 15, 2016

Sign-in Sheet

NAME	ORGANIZATION
1 Angela Lowrey	Delta Diablo / Western Regional Water Coalition
2 Jayne Strommer	
3 Carl A Gowan	Marin Municipal Water District
4 Chris Skutes	California Sportfishing Protection Alliance
5 HENRY MCCANN	WATER POLICY CENTER - PPIC
6 Manisha Kothari	SFPUC
7 Leonard Ash	ACWD
8 Patricia Gonzales	Stanford
9 MICHAEL HURLEY	BANSCA
10 Amparo Flores	Zone 7 Water Agency
11 Tracy Hemmeter	SCVWD
12 Bob Whitley	Water Task Force - EBL C.
13 Colleen Kredell	Climate Readiness Institute
14 Laura Tam	SPUR
15 MICHAEL GERMEAAD	ABAG
16 HASAN ABDULLAH	EBMUD

BARR DCP Task Force Meeting - April 15, 2016

Sign-in Sheet

	NAME	ORGANIZATION
1	Matthew Heberger	Pacific Institute
2	Brianne Riley	Bay Planning Coalition
3	Amparo Flores	Zone 7 Water Agency
4	JENNY GAIN	BROWN AND CALDWELL
5	Tom Franco	EBMUD
6	Peter Drekmeyer	Tuolumne River Trust
7	Spreek Rosekrans	Restore Hetch Hetchy
8	Doug Wallace	EBMUD
9	Emily Powell	Katz & Associates
10	Julia Heath	4CL
11	Kara Gross	JVSV
12	Kate Pook	NREL
13	RALPH BONIELLO	ALAMEDA CREEK ALLIANCE
14	Roger BAILEY	BACWA / C
15	Lyndee Deschambault	NCC climate leaders.
16	Elizabeth Dougherty	Wholey H&O

BARR DCP Task Force Meeting - April 15, 2016

Sign-in Sheet

	NAME	ORGANIZATION
1	SONIA DIERMAYER	SIERRA CLUB (SF BAY CHAPTER)
2	Katja Iwim	Sierra Club Loma Prieta
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