



Executive Board Meeting
AGENDA
Friday, July 21, 2017, 9:00 a.m. – 12:30 p.m.
EBMUD Treatment Plant, Lab Library
2020 Wake Ave., Oakland, CA

<u>Agenda Item</u>	<u>Time</u>	<u>Page</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 June 16, 2017, BACWA Executive Board Meeting Minutes		3-9
2 May 2017 Treasurer's Reports		10-18
APPROVALS & AUTHORIZATIONS	9:06 AM	
3 <u>Approval</u> : Annual Nutrient Watershed Permit Payment		19-21
4 <u>Authorization</u> : Executive Director Authorization - EOA Scope of Work		22-25
OTHER BUSINESS - POLICY/STRATEGIC	9:10 AM	
5 <u>Discussion</u> : Nutrients		
a. Regulatory		
i. 2nd Watershed Permit DRAFT Key Tenets	Data Sheet	
ii. Data Due for Annual Report July 31, 2017		
b. Technical Work		
i. Nutrient Trading Article	Article	
c. Governance Structure		
6 <u>Discussion</u> : Climate Change	Presentation	
7 <u>Discussion</u> : Draft Agenda Pre-Pardee Technical Seminar		26
8 <u>Discussion</u> : Draft Agenda Pardee Technical Seminar		27-29
9 <u>Discussion</u> : Public Policy Institute of California Project Support		30
10 <u>Discussion</u> : Basin Plan Amendment for Chlorine Residual Update		
11 <u>Discussion</u> : Bacterial Objectives	Objectives	31-38
12 <u>Discussion</u> : Pesticide Regulations		39
13 <u>Discussion</u> : State Revolving Fund Prioritization Screening System		40-42
14 <u>Discussion</u> : Mercury/PCBs Watershed Permit	Permit	
15 <u>Discussion</u> : AIR Issues		
i. Regulation 2 Comment Letter		43-46
ii. Rule 11-18 Update		47-53
iii. BAAQMD Annual Meeting Summary		54-56
OTHER BUSINESS - OPERATIONAL	11:45 AM	
16 <u>Discussion</u> : Closure of Proposition 50 Accounts		57-61
17 <u>Discussion</u> : 2017 State of the Estuary Conference Passes (2)		62
18 <u>Discussion</u> : 2018 Arleen Navarret Award		63-66
19 <u>Discussion</u> : ELAP Preliminary DRAFT Regulations		67-70
20 <u>Discussion</u> : BACWA Annual Meeting Date & Location		71
21 <u>Discussion</u> : BACWA Annual Invoices		72-73
22 <u>Discussion</u> : BACWA Representative to SF Estuary Partnership		
23 <u>Discussion</u> : BACWWE Update		74-80
24 <u>Discussion</u> : Manager's Roundtable Update		81-82

REPORTS		12:20 PM	
25	Committee Reports		83-87
26	Member Highlights		
27	Executive Director Report		88-96
28	Regulatory Program Manager Report		97
29	Other BACWA Representative Reports		
	a. RMP TRC	Rod Miller	
	b. RMP Steering Committee	Karin North; Leah Walker; Jim Ervin	
	c. Summit Partners	Dave Williams; Laura Pagano	
	d. ASC/SFEI	Laura Pagano; Jim Ervin; Dave Williams	
	Agenda		
	e. Nutrient Governance Steering Committee	Jim Ervin; Mike Connor	
	f. SWRCB Nutrient SAG	Dave Williams	98
	g. SWRCB Focus Group – Bacterial Objectives	Lorien Fono; Amy Chastain	
	h. SWRCB Focus Group – Mercury Amendments to the State Plan	Tim Potter; Laura Pagano; David Williams	
	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 La Bella	
	m. CASA Statewide Pesticide Steering Committee	Melody La Bella	
	n. CASA State Legislative Committee	Lori Schectel	
	o. CASA Regulatory Workgroup	Lorien Fono	
	p. ReNUWit	Mike Connor; Karin North	
	q. RMP Microplastics Liaison	Nirmela Arsem	
	r. AWT Certification Committee	Maura Bonnarens,	
	s. Bay Area Regional Reliability Project	Roger Bailey; Mike Connor	
	t. WateReuse Working Group	Cheryl Munoz	
30 SUGGESTIONS FOR FUTURE AGENDA ITEMS		12:27 PM	
NEXT MEETING The next regular meeting of the Board is scheduled for August 18, 2017 from 9:00 am – 12:30 pm at the SFPUC, Hetch Hetchy Room, 13th Floor, 525 Golden Gate Ave., San Francisco, CA		12:28 PM	
ADJOURNMENT		12:30 PM	

ROLL CALL AND INTRODUCTIONS

Executive Board Representatives: Jim Ervin (San Jose); Jason Warner (East Bay Dischargers Authority); Eileen White (East Bay Municipal Utility District); Lori Schectel (Central Contra Costa Sanitary District).

Other Attendees:

<u>Name</u>	<u>Agency/Company</u>
Tom Hall	EOA
David Senn	SFEI
Eric Dunleavy	San Jose
Heidi Sanborn	California Produce Stewardship Council
Karin North	City of Palo Alto
Bhavani Yerrapotu	City of Sunnyvale
Simret Yigzaw	San Jose
Jessica Donald	San Jose
Bryan Freyh	San Jose
David Williams	BACWA
Lorien Fono	BACWA
Sherry Hull	BACWA

PUBLIC COMMENT

None.

CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER

Item # 12 may be taken out of order to accommodate the CPSC presentation.

CONSENT CALENDAR

1. May 19, 2017, BACWA Executive Board Meeting Minutes – The approved minutes will be posted on the BACWA website.
2. April 2017 Treasurer's Reports and Financial Summary – A Financial Summary Report was included in the Packet. A copy of the FY17 Budget as of April 30, 2017, (83% of the fiscal year) was included. It, along with the Summary, 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 Executive Director noted that the Funds Report includes a report on the Alternative Investments and, because those investments are less liquid than previous investments, this new report is included to provide a check on BACWA liquidity.

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

AUTHORIZATIONS & APPROVALS

- 3.** Approval: Stephanie Hughes BAPPG Committee Support FY18 – A Board Authorization Request was included in the Packet.
- 4.** Approval: O’Rorke BAPPG Committee Support FY18 – A Board Action Request was included in the Packet.
- 5.** Approval: TDC BAPPG Committee Support FY18 - A Board Action Request was included in the Packet
- 6.** Approval: Carollo AIR Committee Support – A Board Action Request was included in the Packet.
- 7.** Approval: Carollo Rule 11-18 Agreement Extension to FY18 – A Board Action Request was included in the Packet.
- 8.** Approval: CIEA Agreement Extension to FY18– A Board Action Request was included in the Packet.

Items 3 through 8 were approved in a motion made by Jim Ervin and seconded by Jason Warner. The motion carried unanimously.

- 9.** Approval: Appointment of BACWA Representative to ASC/SFEI Joint Board– A Board Action Request was included in the Packet. The Executive Director gave an overview of the request and explained that his term was up at the end of FY17.

Item 9. Lori Schectel nominated David Williams to another three-year term as BACWA Representative. Jason Warner seconded the nomination. The motion carried unanimously.

OTHER BUSINESS-POLICY/STRATEGIC

Agenda **Item 10** – Discussion: Nutrients

- a. Regulatory
 - i. Optimization/Upgrade Workshop Debrief – A Meeting Summary, a list of Attendees, and a [LINK](#) to the Presentations for the second BACWA Optimization/Upgrade Workshop were included in the Packet. The Executive Director gave an overview of the workshop. Meeting attendees provided positive feedback.

- ii. 2nd Watershed Permit Update – The Executive Director gave an overview of his outreach to POTW’s regarding their support for the 2nd Watershed Permit. The Executive Director noted that he has heard back from all 37 major and 3 minor POTW’s in the Watershed Permit except one. Thirty-seven are comfortable with the increase in support of science beginning in FY18, with only San Mateo and San Jose still reviewing. The Executive Director and representatives from two other POTW’s will request a meeting with San Mateo.

The issue of how the Principals will pay their portion of the Nutrient Surcharge was also discussed. San Jose indicated their participation in the 2nd Watershed Permit was closely linked to Principals agreeing to pay the Nutrient Surcharge based on total nitrogen similar to how the Associate and Affiliate member’s surcharge is calculated. Although each of the other four Principals indicated they had their preference on how the payment would be calculated, none indicated that they would not participate in the 2nd Watershed Permit if their Surcharge was based on total nitrogen.

The issue of “early actions” was also discussed. The Executive Director presented a graphic and calculation depicting how banking might occur. The concept is to include language in the 2nd Watershed Permit that would recognize “early action” on the part of any agency who voluntarily pursued efforts to reduce their nutrient loadings. The graphic showed that an agency would begin banking their nutrient load reduction from the time they actually implemented the reductions until the time that regulations were in effect that mandated reductions or no increases. An agency who had banked credits could continue to increase their loads up to the calculated level, based on projections made prior to the implementation of “early action”, they would have been discharging had they not undertaken “early action”. An agency could also choose to trade their banked loads if the regulations allowed for trading.

- iii. Optimization/Upgrade Studies Progress Update – A draft Progress Letter to the Water Board was included in the Packet. The Executive Director gave an overview of the letter and with the Board’s support, will submit it to the Regional Water Board staff.
- iv. Nutrient Strategy Team Meeting Debrief - A draft Letter of Intent that BACWA would like to see from the Water Board Executive Officer was included in the Packet. The Executive Director gave an overview of the history and progress on discussions with the Water Board staff and requested feedback from the Executive Board on several items including “early actions”, calculation of Nutrient Surcharge, and other key tenants of the 2nd Nutrient Watershed Permit. The Board provided several suggestions for changes to the letter which the Executive Director will incorporate.

b. Technical Work -

- i. HABs Workshop Debrief – Dr. David Senn from SFEI gave a presentation on the Harmful Algae Bloom Workshop that was held on May 31st and June 1st, 2017. He noted that there are staffing changes planned at the USGS and that the Steering Committee has requested continued congressional support for the USGS since they have historically provided good data, future major expenditures will be on monitoring, and HABs are a key priority. Following a quick overview of the Science Plan, he noted that there were two main questions to be addressed at the workshop: 1) what are the observations so far; and 2) what monitoring efforts are needed to understand if HABs are a problem and, if so, are nutrients causing it? The data presented at the workshop suggests that HABs are a concern and more data is needed.

c. Governance Structure -

- i. Steering Committee Meeting #13 Debrief – A meeting summary and a [LINK](#) to the NMS Steering Committee Meeting Materials were included in the Packet. The Executive Director gave an overview of the meeting and noted that the program plan for FY18 was approved.

Agenda **Item 11** – Discussion: Basin Plan Amendment for Chlorine Residual – A draft Scope and Rates were included in the Packet. Tom Hall has provided a proposal for the development of a scope and the Executive Director will execute an agreement with EOA under his authority.

OTHER BUSINESS-OPERATIONAL

Agenda **Item 12** – Discussion: CPSC Annual Update – Heidi Sanborn gave the BACWA Board an annual update on the California Product Stewardship Council. In addition to the California CPSC, Heidi Sanborn has participated in forming a national group pursuing the product stewardship agenda. 2017 is the tenth anniversary of the CPSC. They continue to work on issues such as disposal of medications and needles and would love to hear from POTW's if there are other issues they are finding that need to be dealt with. One area of frustration is new rules promulgated by the Pharm industry that places significantly more stringent rules on collection bins than those imposed by the DEA. CPSC feels that public opinion is moving towards the CPSC position on product stewardship, especially since proper medicine disposal is a public health concern as well as an environmental concern. CPSC greatly appreciates BACWA's support and is soliciting additional funding where possible from individual members. Their outreach materials can be tailored for any of the member agencies. Their website is www.calpsc.org which provides links to programs and social media. Additional links provided by CPSC are: <https://www.youtube.com/watch?v=x2Pei0SWe-M>
https://calpsc.org/mobius/cpsc-content/uploads/2016/04/SNR_CPSCAL_040116.pdf
https://calpsc.org/mobius/cpsc-content/uploads/2016/04/SNR_CPSCSC_040116.pdf

Agenda **Item 13** – Discussion: BAAQMD Annual Meeting DRAFT Agenda – A draft Agenda for the June 21, 2017 meeting was included in the Packet.

Agenda **Item 14** – Discussion: Planning for the Toxicity Workshop – A draft Agenda was included in the Packet. The workshop is scheduled for September 18th at the CCCSD Multi-purpose Room and a Save the Date invitation will be sent to BACWA members soon.

Agenda **Item 15** – Discussion: 2018 BACWA Executive Board Calendar – A draft Executive Board Meeting Calendar was included in the Packet.

Agenda **Item 16** – Discussion: Wastewater Operator Training Program Update – A meeting summary and supporting documents were included in the Packet. The Executive Director gave an overview of the status of the program. At the member's meeting on May 31, 2017 the members confirmed the Executive Board and approved a move back to Solano Community College.

Agenda **Item 17** – Discussion: Succession Planning Update on New Leaders – A list of BACWA Committee Leaders for FY18 was included in the Packet. The Executive Director thanked the Committee leadership, and noted that there were two changes since the Board approved the FY18 leadership, and there is still an opening for a Co-Chair of the InfoShare/Operations & Management Committee.

Agenda **Item 18** – Discussion: Collection Systems Memberships Options – Discussion on this item was deferred to a future meeting.

Agenda **Item 19** – Discussion: Sewer Rate Survey Update – A copy of the Survey, along with a LINK to the Survey results, was included in the Packet. The Regulatory Program Manager updated the members, asking them to look at the survey and make sure their agency is participating in the survey.

REPORTS

Agenda **Item 20** – Committee Reports – BACWA Committee Reports were included in the Packet.

AIR Committee: No meeting.

BAPPG: A Report from the June 7, 2017 meeting was included in the Packet.

Biosolids Committee: No meeting.

Collections Committee: A Report from the May 25, 2017 meeting was included in the Packet.

InfoShare - Asset Management: A Report from the May 17, 2017 meeting was included in the Packet.

InfoShare – Operations & Maintenance: A Report from the May 31, 2017 meeting was included in the Packet.

Lab Committee: A Report from the May 10, 2017 meeting was included in the Packet.

Permits Committee: No Meeting.

Pretreatment Committee: A Report from the May 16, 2017 meeting was included in the Packet.

Recycled Water Committee: No Meeting.

Agenda **Item 21** - 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: Have completed an RFP for a Nutrient Project and have submitted a permit application this week.

EBMUD: No report.

Central Contra Costa: Their 10-year Master Plan was approved by the Board.

San Francisco: No report.

San Jose: No report.

Sunnyvale: No report.

Palo Alto: No report.

It was reported that the State Board has issued the 303 (d) list with no changes to the regional list. The comment letter will be resubmitted.

It was also reported that CASA will be meeting with the State Water Board staff on 6/22/17 regarding the Toxicity Provisions.

Agenda **Item 22** - The **Executive Director's (ED) Report** for May 2017, along with the Board Calendar, and BACWA Action Items, were included in the Packet. It was noted that 96 of the 97 action items from FY16 and 64 of the 72 action items from FY17 have been completed.

Agenda **Item 23** - The **Regulatory Program Manager (RPM) Report** for May 2017 was included in the Packet.

Agenda **Item 24 - 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; Leah Walker; Jim Ervin – No report.
- c. **Summit Partners**: Dave Williams; Laura Pagano – A Summary of the May 30, 2017 meeting was included in the Packet.
- d. **ASC/SFEI**: Laura Pagano; Dave Williams; Karin North – An SFEI/ASC Governance Committee memo was included in the Packet.
- e. Nutrient Governance Steering Committee: Jim Ervin; Mike Connor – No report.

- f. **SWRCB Nutrient SAG:** Dave Williams – A LINK to a CASA presentation on wadeable streams was included in the Packet.
- g. SWRCB Focus Group – Bacterial Objectives: Lorien Fono; Amy Chastain – No report.
- h. **SWRCB Focus Group** – Mercury Amendments to the State Plan: Tim Potter; Dave Williams; Laura Pagano – Several emails and a LINK to the EPA Final Rules on Effluent Limitation Guidelines and Standards for the Dental Category were included in the Packet. The Board thanked Tim Potter for his many years of work on this issue.
- 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 – Lorien Fono - No report.
- p. RMP Microplastics Liaison: Nirmela Arsem – No report.
- q. ReNUWIt: Mike Connor; Karin North – No report.
- r. AWT Certification Committee: Maura Bonnarens – No report.
- s. **Bay Area Regional Reliability Project:** Roger Bailey; Mike Connor – An email announcing a public meeting regarding the Drought Contingency Plan was included in the Packet.
- t. WaterReuse Working Group: Cheryl Munoz – No report.

Agenda Item 25 - **SUGGESTIONS FOR FUTURE AGENDA ITEMS.** None.

ANNOUNCEMENTS:

The next regular meeting of the Board is scheduled for **July 21, 2017 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.

Fund Balances

In FY 16 BACWA had seven funds of which three were operating funds (BACWA, Legal, and CBC) and four were pass-through funds for which BACWA provided only contract administration services. Beginning in FY17, with the AIR Committee becoming a regular BACWA committee supported by BACWA dues, the balance from the Pass-through AIR Fund has been consolidated into the BACWA Fund. The remaining three 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 on May 31, 2017 was \$1,254,966 which is significantly higher than the target reserve of \$160,000 which is intended to cover 3 months of normal operating expenses. \$131,160 of the ending fund balance is 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 excess fund balance of \$1,123,805. As the details of what regulatory requirements will be included in the next Nutrient Watershed Permit, these excess funds may be transferred to the CBC fund and used to offset potential Nutrient Surcharge increases to the BACWA members.

CBC Fund: This fund provides the resources for completing special investigations as well as meeting regulatory requirements. The ending fund balance on May 31, 2017 was \$1,594,009 which is significantly higher than the target reserve of \$400,000. However, \$319,614 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. Total Disbursements for FY17 from the CBC Fund include the annual payment of \$880,000 to SFEI for the Nutrient Watershed Permit commitment. As the details of what regulatory requirements will be included in the next Nutrient Watershed Permit, any excess CBC funds may be used to offset potential Nutrient Surcharge increases to the BACWA members.

Legal Fund: This fund provides for needed legal services. The ending balance was \$300,000 which is at the target reserve of \$300,000.

Budget To Actual

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 May 31, 2017 (92% of the FY) are at 113% primarily due to higher than budgeted interest earnings. Another major factor is the receipt of \$187,500 in voluntary contributions by some members to fund additional scientific investigations. This revenue however will be offset with an FY 17 expense as the collected funds from the members need to be passed on to SFEI for conducting the scientific investigations. A second major factor is the receipt of \$67,650 for the Pass-through for the Pharmaceutical Studies. This



MONTHLY FINANCIAL SUMMARY REPORT May 2017

revenue however will also be offset with an FY17-FY18 expense as the collected funds from the members need to be passed on to SGS-AXYS for conducting the studies.

Overall Expenses as of May 31, 2017 (92% of the FY) are at 105% and are tracking in accordance with the Annual Budget due to payment of Watershed Permit commitment early in the fiscal year and the Passthroughs mentioned above. Individual expense categories with a plus or minus 10% variance at this point in the fiscal year are as follows:

Administration: This category is under-expended at 67% due primarily to the timing of invoices.

Communications: This category is under-expended (i.e. 43%) due primarily to no expenditures on website changes and low expenditures on IT Support.

Legal Support: Budget of \$4,500 and expenditures to date of \$498 resulting in a favorable variance of \$4,002 due to a low need for legal administrative advice.

Committees: This category is under-expended (i.e. 69%) due primarily to timing of invoices.

Tech Support: This category is 122% expended at 92% of the FY partly due to timing of the Watershed Permit Commitment invoice and to the payment of Optimization/Upgrade obligations. In addition, expenses were incurred for the voluntary contributions for FY 17 by some members for funding additional science, and for the Pharmaceutical Studies. However as mentioned above these are pass-thru expenses that will be negated by revenues over the two-year period of contributions. The Opt/Upgrade expenditures were significantly below budget in FY16 and will, therefore, be significantly above budget in FY17.



BACWA
FY 2017 Budget
Approved 4/15/16

92% of Fiscal Year

<u>BACWA FY17 BUDGET</u>	<u>Line Item Description</u>	<u>FY 2017 Budget</u>	<u>Actuals May 2017</u>	<u>Actual % of Budget May 2017</u>	<u>Variance</u>	<u>NOTES</u>
<u>REVENUES & FUNDING</u>						
Dues	Principals' Contributions	\$477,544	\$477,545	100%	\$1	FY17: 2% increase.
	Associate & Affiliate Contributions	\$175,072	\$176,850	101%	\$1,778	FY17: approx. 2% increase.
Fees	Clean Bay Collaborative	\$675,000	\$675,000	100%	\$0	Unchanged from FY16
	Nutrient Surcharge	\$800,000	\$800,133	100%	\$133	Increased from \$600,000 in FY16 (Invoiced \$800,133 in FY17 due to rounding)
	Voluntary Nutrient Contributions	\$0	\$187,500		\$187,500	FY17: Palo Alto (\$30k); Sunnyvale (\$60k) CCCSD (\$195k) FY18: Palo Alto (\$30k)
	Other	\$0	\$67,650		\$67,650	Passthrough for Pharm Study;
Other Receipts	AIR Non-Member	\$6,350	\$6,350	100%	\$0	Approx. 2% increase.
	BAPPG Non-Members	\$3,700	\$3,699	100%	-\$1	Approx. 2% increase.
	Other	\$0	\$13,698		\$13,698	Transfer of AIR Fund to BACWA Fund (not included in total Revenues)
Fund Transfer	Special Program Admin Fees	\$2,500	\$3,023	121%	\$523	Budgeted for WOT only. Continue to have Props into FY17.
Interest Income	Funds	\$4,000	\$17,391	435%	\$13,391	FY17: Actuals includes BACWA, Legal, & Nutrients Funds from LAIF
	Investments	\$0	\$3,906		\$3,906	Alternative Investments Interest
	Total Revenue	\$2,144,166	\$2,432,745	113%	\$288,579	
<u>BACWA FY16 BUDGET</u>						
	<u>Line Item Description</u>	<u>FY 2017 Budget</u>	<u>Actuals May 2017</u>	<u>Actual % of Budget May 2017</u>	<u>Variance</u>	<u>NOTES</u>
<u>EXPENSES</u>						
<u>Labor</u>						
	Executive Director	\$189,370	\$173,589	92%	-\$15,781	3.2% CPI (SF/Oakland/San Jose Metro Area Dec 2015)
	Assistant Executive Director	\$85,000	\$77,170	91%	-\$7,830	8.08% increase - requested 8.2%
	Regulatory Program Manager	\$112,500	\$87,840	78%	-\$24,660	New contract for FY17 with L Fono
	Total	\$386,870	\$338,599	88%	-\$48,271	
<u>Administration</u>						
	EBMUD Financial Services	\$40,000	\$35,903	90%	-\$4,097	\$3,070 is Audit Fee from FY16 when it was on same line item as Accounting.
	Auditing Services (Maze)	\$6,200	-\$3,666	-59%	-\$9,866	FY17: a separate line item from EBMUD Financial Services. (-\$3,666=accrual from FY16)
	Administrative Expenses	\$7,500	\$2,702	36%	-\$4,798	Travel, Supplies, Parking, Mileage, Tolls, Misc.
	Insurance	\$4,500	\$4,266	95%	-\$234	
	Total	\$58,200	\$39,205	67%	-\$18,995	
<u>Meetings</u>						
	EB Meetings	\$2,500	\$1,460	58%	-\$1,040	Catering, Venue, other expenses
	Annual Meeting	\$7,000	\$7,127	102%	\$127	Catering, Venue, other expenses
	Pardee	\$6,000	\$4,421	74%	-\$1,579	Catering, Venue, other expenses
	Misc. Meetings	\$1,100	\$2,473	225%	\$1,373	Holiday Lunch, Comm Chair Lunch, Staff Mtgs, Summit Partners, CASA, Opt/Upgrade WS, WEF,
	Total	\$16,600	\$15,481	93%	-\$1,119	
<u>Communication</u>						
	Website Hosting (Computer Courage)	\$600	\$600	100%	\$0	
	File Storage (Box.net)	\$750	\$720	96%	-\$30	
	Website Development/Maintenance	\$1,200	\$0	0%	-\$1,200	Domains, website changes, Logo EPS file
	IT Support (As Needed)	\$2,600	\$383	15%	-\$2,217	
	Other Communication (MS, SM & Code42)	\$800	\$864	108%	\$64	MS Exchange, Survey Monkey, CrashPlanPro
	Total	\$5,950	\$2,567	43%	-\$3,383	

EXPENSES						
Legal						
	Regulatory Support	\$2,500	\$498	20%	-\$2,002	
	Executive Board Support	\$2,000	\$0	0%	-\$2,000	
	Total	\$4,500	\$498	11%	-\$4,002	
Committees						
	AIR	\$50,000	\$38,117	76%	-\$11,883	Full BACWA Committee beginning in FY17; Lunches provided by RPM
	BAPPG	\$86,000	\$79,887	93%	-\$6,113	Includes CPSC @ \$10,000,
	Biosolids Committee	\$3,100	\$1,952	63%	-\$1,148	
	Collections System	\$1,000	\$300	30%	-\$700	
	InfoShare Groups	\$1,200	\$1,071	89%	-\$129	funds for 2 workgroups (Asset Mgmt & O&M)
	Laboratory Committee	\$6,000	\$2,641	44%	-\$3,359	
	Permit Committee	\$1,000	\$0	0%	-\$1,000	
	Pretreatment	\$7,000	\$181	3%	-\$6,819	Request includes specific training sessions
	Recycled Water Committee	\$1,000	\$0	0%	-\$1,000	
	Misc Committee Support	\$35,000	\$7,087	20%	-\$27,913	Includes Baywise website & Rule 11-18 work
	Total	\$191,300	\$131,236	69%	-\$60,064	
Collaboratives						
	Collaboratives					
	State of the Estuary-PSSEP (biennial)	\$20,000	\$20,000	100%	\$0	Biennial in Odd Years (Conf in Sept, 2017 - FY18)
	Arleen Navarret Award	\$0	\$0		\$0	Biennial in Even Years
	FWQC (Fred Andes)	\$7,500	\$7,500	100%	\$0	Dues raised to \$7,500 in FY16
	Stanford ERC (ReNUWit)	\$10,000	\$10,000	100%	\$0	
	CWCCG	\$0	\$0		\$0	State-wide function, being absorbed by CASA in FY17
	Misc	\$3,000	\$0	0%	-\$3,000	new budget line item in recognition of unanticipated expenses
	Total	\$40,500	\$37,500	93%	-\$3,000	
Tech Support	Technical Support					
	Nutrients					
	Watershed	\$880,000	\$880,000	100%	\$0	
	Additional work under permit	\$50,000	\$17,367	35%	-\$32,633	FY17: Pilot. LimnoTech
	Opt/Upgrade/Annual Reporting Studies	\$18,128	\$176,634	974%	\$158,506	FY17: remainder of lump sum budget
	Nutrient Program Coordination	\$50,000	\$0	0%	-\$50,000	Prog Coord Pilot Study scheduled for FY17, started in April 2016
	Voluntary Nutrient Contributions	\$0	\$187,500		\$187,500	FY17: Palo Alto (\$30k); Sunnyvale (\$30k) CCCSD (\$97,500k)
	General Tech Support	\$50,000	\$0	0%	-\$50,000	SFEI agrmt bal: \$28,409.12 expires 6/30/17. FY17: Assesmt Framework
	Chemicals of Concern	\$15,000	\$14,235	95%	-\$765	Pesticide Mgmt support (Kelly Moran-TDC)
	Risk Reduction	\$32,500	\$11,451	35%	-\$21,049	Remainder of Contracts executed for \$50k in FY16 to be paid over two years
	Other	\$0	\$44,550		\$44,550	Passthrough for Pharm Study; bal at end of FY17: \$23,100
	Total	\$1,095,628	\$1,331,737	122%	\$236,109	
	TOTAL EXPENSES	\$1,799,548	\$1,896,823	105%	\$97,275	
	NET INCOME BEFORE TRANSFERS	\$344,618	\$535,922			
	TRANSFERS FROM RESERVES	\$0				
	NET INCOME AFTER TRANSFERS	\$344,618				

CHECK ON BACWA LIQUIDITY THRESHHOLD

	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	Budget	
														<u>Total FY 17</u>	<u>Total FY 18</u>
BEGINNING UNOBLIGATED FUND BALANCE	\$3,115,138	\$3,038,509	\$2,961,880	\$2,843,492	\$2,220,846	\$2,678,200	\$3,135,554	\$3,592,908	\$3,474,520	\$3,356,131	\$3,237,743	\$3,119,355	\$3,000,967		
Average Monthly Revenues	\$0	\$0	\$0	\$575,742	\$575,742	\$575,742	\$575,742	\$0	\$0	\$0	\$0	\$0	\$0	\$2,144,165	\$2,302,969
Average Monthly Expenditures (Less Large one time Expenses)	(\$76,629)	(\$76,629)	(\$118,388)	(\$118,388)	(\$118,388)	(\$118,388)	(\$118,388)	(\$118,388)	(\$118,388)	(\$118,388)	(\$118,388)	(\$118,388)	(\$118,388)	\$919,548	\$1,420,659
Less Large Expenditures	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	(\$1,080,000)	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>		
NET AVAILABLE FOR INVESTMENT	\$3,038,509	\$2,961,880	\$2,843,492	\$2,220,846	\$2,678,200	\$3,135,554	\$3,592,908	\$3,474,520	\$3,356,131	\$3,237,743	\$3,119,355	\$3,000,967	\$2,882,579		
NEW INVESTMENTS															
Higher Yield (non-liquid)	(\$605,000)	(\$605,000)	(\$605,000)	(\$605,000)	(\$605,000)	(\$605,000)	(\$605,000)	(\$605,000)	(\$605,000)	(\$605,000)	(\$605,000)	(\$605,000)	(\$605,000)		
MATURITIES															
Higher Yield (non-liquid)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
AVAILABLE LIQUID FUNDS	\$2,433,509	\$2,356,880	\$2,238,492	\$1,615,846	\$2,073,200	\$2,530,554	\$2,987,908	\$2,869,520	\$2,751,131	\$2,632,743	\$2,514,355	\$2,395,967	\$2,277,579		
TARGET AVAILABLE LIQUID FUNDS	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok	\$1,500,000 ok		



Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

July 7, 2017

MEMO TO: Bay Area Clean Water Agencies Executive Board

MEMO FROM: D. Scott Klein, Controller, East Bay Municipal Utility District *DSK*

SUBJECT: Eleventh 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, 2016 through May 31, 2017** (eleventh months of Fiscal Year 2016-2017). 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)

BACWA Fund Report as of May 31, 2017

BACWA FUND BALANCES - DATA PROVIDED BY ACCOUNTING DEPT.

DEPTID	DESCRIPTION	FISCAL YEAR BEGINNING FUND BALANCE	TOTAL RECEIPTS TO-DATE	TOTAL DISBURSEMENTS TO-DATE	MONTH-ENDING FUND BALANCE	OUTSTANDING ENCUMBRANCES	MONTH-END UNOBLIGATED FUND BALANCE
800	BACWA	1,060,239	759,814	565,087	1,254,966	131,160	1,123,805
804	LEGAL RSRV	300,000	-	-	300,000	-	300,000
805	CBC	1,252,817	1,672,929	1,331,737	1,594,009	319,614	1,274,396
802	AIR	13,698	-	13,698	0	-	0
	SUBTOTAL 1	2,626,754	2,432,743	1,910,522	3,148,975	450,774	2,698,201
810	WOT	33,608	142,714	72,406	103,916	-	103,916
	SUBTOTAL 2	33,608	142,714	72,406	103,916	-	103,916
811	PRP84	118,356	902,287	902,736	117,907	-	117,907
815	PRP50	150,663	558,049	582,917	125,795	-	125,795
	SUBTOTAL 3	269,019	1,460,336	1,485,653	243,703	-	243,703
	GRAND TOTAL	2,929,381	4,035,793	3,468,581	3,496,593	450,774	3,045,819

Top Chart: Reflects CASH on the Books Includes Encumbrances
Bottom Chart: Reflects CASH in the Bank Includes Payables (bills received but not paid)
Allocations: Priority for non-liquid investments

BACWA INVESTMENTS BALANCES - DATA PROVIDED BY TREASURY DEPT.

DEPTID	DESCRIPTION	FISCAL YEAR BEGINNING FUND BALANCE	TOTAL RECEIPTS TO-DATE	TOTAL DISBURSEMENTS TO-DATE	MONTH-ENDING FUND BALANCE	RECONCILIATION TO FINANCIAL STATEMENTS	MONTH-END RECONCILED FUND BALANCE	UNINVESTED CASH BALANCES	LAIF INVESTMENTS AMOUNTS	LAIF INVESTMENTS PERCENTAGE	ALTERNATIVE INVESTMENTS AMOUNTS	ALTERNATIVE INVESTMENTS IDENTIFIERS	ALTERNATIVE INVESTMENT INSTRUCTIONS AND NOTES
800	BACWA	1,060,239	759,814	565,087	1,254,966	50,739	1,305,704	82,114	1,223,590	49%	(0)	n/a	priority # 3 for allocation
804	LEGAL RSRV	300,000	-	-	300,000	-	300,000	-	-	0%	300,000	AR5	priority # 1 for allocation
805	CBC	1,252,817	1,672,929	1,331,737	1,594,009	-	1,594,009	-	1,289,010	51%	305,000	6F5, SM4, G64	priority # 2 for allocation
802	AIR	13,698	-	13,698	0	-	0	-	-	0%	0	n/a	This fund is gone
	SUBTOTAL 1	2,626,754	2,432,743	1,910,522	3,148,975	50,739	3,199,714	82,114	2,512,600	100%	605,000		
810	WOT	33,608	142,714	72,406	103,916	-	103,916	103,916	-	0%	-		pass-through funds, no allocation
	SUBTOTAL 2	33,608	142,714	72,406	103,916	-	103,916	103,916	-	0%	-		
811	PRP84	118,356	902,287	902,736	117,907	-	117,907	117,907	-	0%	-		pass-through funds, no allocation
815	PRP50	150,663	558,049	582,917	125,795	-	125,795	125,795	-	0%	-		pass-through funds, no allocation
	SUBTOTAL 3	269,019	1,460,336	1,485,653	243,703	-	243,703	243,703	-	0%	-		
	GRAND TOTAL	2,929,381	4,035,793	3,468,581	3,496,593	50,739	3,547,332	429,732	2,512,600		605,000		

verification

To be used to cover Reconciliation to Financial Statements (\$0)

Reconciliation to Trial Balance - accrual basis

Per Report above:

General	2,432,743
WOT	142,714
PROP	1,460,336
subtotal	4,035,793

Billings-Pending Receipts

4686	Mem Contrib	(113,250)
4687	Transfer	-
4690	Assoc Contrib	(750)
4696	Other	73,698
4731	State Grant	(8,747)
4732	Grant Retention	(435,188)
subtotal		(484,238)

Trial Balance Revenue Accounts

4411	Interest	(22,539)
4686	Mem Contrib	(1,229,045)
4687	Transfer	(3,023)
4690	Assoc Contrib	(176,850)
4696	Other	(1,091,030)
4731	State Grant	(907,300)
4732	Grant Retention	(108,072)
subtotal		(3,537,859)
Rounding		1
Difference		13,698

BACWA Revenue Report as of May 31, 2017

FUND #	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Others	Admin & General	Contributons	Interest, Transfers, Others	ACTUAL	
800	BACWA	1011099	Principal's Contributions	477,544	-	-	-	-	477,545	-	477,545	(1)
800	BACWA	1011133	Assoc.& Affiliate Contr	175,072	-	-	-	-	177,600	-	176,850	(2,528)
800	BACWA	0408511	Administrative & General	-	-	-	-	-	-	(369)	(369)	369
800	BACWA	1014251	Non-Member Contributions (BAPPG)	3,700	-	-	-	-	3,699	-	3,699	1
800	BACWA	1011109	Fund Transfers	2,500	-	-	3,023	-	-	3,023	3,023	(523)
800	BACWA	1011117	BDO- Interest Income from LAIF	4,000	-	-	-	-	-	9,569	9,569	(5,569)
800	BACWA	1011108	BDO Other Receipts	-	-	-	-	-	-	13,698	13,698	(13,698)
800	BACWA	1014252	BDO Non-Member Contr AIR	6,350	-	-	-	-	6,350	-	6,350	-
800	BACWA	1014511	BDO-Alternative Investment Inc	-	-	-	1,800	1,105	-	695	1,800	(1,800)
800	BACWA	1014550	BDO-Other Receipts (PHARM)	-	-	-	-	-	67,650	-	67,650	(67,650)
BACWA TOTAL				669,166	-	-	4,823	1,105	732,844	26,616	759,815	(91,398)
802	LEGAL	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
LEGAL TOTAL				-	-	-	-	-	-	-	-	-
805	WQA-CBC	1011099	BDO Member Contributions	675,000	-	-	-	-	734,250	(60,000)	675,000	750
805	WQA-CBC	1011108	BDO Other Receipts	800,000	-	-	-	-	800,133	-	800,133	(133)
805	WQA-CBC	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	8,191	8,191	(8,191)
805	WQA-CBC	1014511	BDO-Alternative Investment Inc	-	-	-	1,608	-	-	2,106	2,106	(2,106)
805	WQA-CBC	1014528	BDO-Voluntary Nutrient Contrib	-	-	-	-	-	127,500	60,000	187,500	(187,500)
WQA CBC TOTAL				1,475,000	-	-	1,608	-	1,661,883	10,296	1,672,929	(197,179)
TOTAL				2,144,166	-	-	6,430	1,105	2,394,727	36,912	2,432,744	(288,577)

	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Others	Admin & General	Contributons	Interest, Transfers, Others	ACTUAL	
810	WOT	1011099	BDO Member Contributions	-	-	-	-	-	130,500	-	130,500	(130,500)
810	WOT	1011108	BDO Other Receipts	-	-	-	-	-	12,000	-	12,000	(12,000)
810	WOT	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	214	214	(214)
WOT TOTAL				-	-	-	-	-	142,500	214	142,714	(142,714)

	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Others	Admin & General	Contributons	Interest, Transfers, Others	ACTUAL	
811	PROP 84			-	-	-	-	-	901,808	479	902,287	(902,287)
815	PROP 50			-	-	-	-	-	557,500	549	558,049	(558,049)
PROP TOTAL				-	-	-	-	-	1,459,308	1,029	1,460,336	(1,460,336)
Grand Total				2,144,166	-	-	6,430	1,105	3,996,535	38,155	4,035,793	(1,891,628)

BACWA Expense Detail Report as of May 31, 2017

EXPENSE TYPE	JOB	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
			ENC	PV	DA	JV	ENC	PV	DA	JV		
LABOR												
AS-Executive Director	1011123	189,370	(31,562)	31,562	-	-	15,781	173,589	-	-	189,370	-
AS-Assistant Executive Directo	1011124	85,000	(7,721)	7,721	-	-	7,830	77,170	-	-	85,000	-
AS-Regulatory Program Manager	1011149	112,500	(9,180)	9,180	-	-	24,660	87,840	-	-	112,500	-
ADMINISTRATION												
AS-EBMUD Financial Services	1011125	40,000	-	-	-	-	7,763	32,237	3,666	(3,666)	40,000	-
AS-Audit Services	1014512	6,200	-	-	-	-	6,200	-	-	-	6,200	-
AS-BACWA Admin Expense	1011118	7,500	-	-	58	-	-	-	2,702	-	2,702	4,798
AS-Insurance	1011126	4,500	-	-	-	-	-	-	4,266	-	4,266	234
MEETINGS												
GBS-Meeting Support-Exec Bd	1014513	2,500	(121)	121	-	-	373	627	833	-	1,833	667
GBS-Meeting Support-Annual	1014514	7,000	-	-	-	-	-	-	7,127	-	7,127	(127)
GBS-Meeting Support-Pardee	1014515	6,000	-	-	-	-	-	-	4,421	-	4,421	1,579
GBS-Meeting Support-Misc	1014516	1,100	-	-	-	-	-	-	2,473	-	2,473	(1,373)
GBS- Meeting Support	1011122	-	-	-	-	-	-	-	-	-	-	-
COMMUNICATION												
CAR-BACWA Website Hosting	1014517	600	-	-	-	-	-	-	600	-	600	-
CAR-BACWA File Storage	1014518	750	-	-	-	-	-	-	720	-	720	30
CAR-BACWA IT Support	1014519	2,600	-	-	-	-	2,218	383	-	-	2,600	-
CAR-BACWA IT Software	1014520	800	-	-	74	-	-	-	864	-	864	(64)
CAR-BACWA Website Development/	1011116	1,200	-	-	-	-	-	-	-	-	-	1,200
LEGAL												
LS-Regulatory Support	1011107	2,500	-	-	-	-	2,002	498	-	-	2,500	-
LS-Executive Board Support	1011110	2,000	-	-	-	-	2,000	-	-	-	2,000	-
COMMITTEES												
AIR-Air Issues&Regulation Grp	1014253	50,000	(5,752)	5,752	-	-	12,592	37,408	709	-	50,709	(709)
BC-BAPPG	1011147	86,000	1,235	-	-	-	7,774	65,962	13,925	-	99,395	(13,395)
BC-Biosolids Committee	1011101	3,100	-	-	-	-	-	-	1,952	-	1,952	1,148
BC-Collections System	1011097	1,000	-	-	-	-	-	-	300	-	300	700
BC-InfoShare Groups	1011102	1,200	-	-	348	-	-	-	1,071	-	1,071	129
BC-Laboratory Committee	1011103	6,000	-	-	-	-	-	-	2,641	-	2,641	3,359
BC-Permit Committee	1011098	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Pretreatment Committee	1011146	7,000	-	-	98	-	-	-	181	-	181	6,819
BC-Water Recycling Committee	1011100	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Miscellaneous Committee Sup	1011104	35,000	(4,084)	4,084	-	-	18,869	7,087	-	-	25,956	9,044
COLLABORATIVES												
CAS-Arleen Navaret Award	1012201	-	-	-	-	-	-	-	-	-	-	-
CAS-FWQC	1012202	7,500	-	-	-	-	-	-	7,500	-	7,500	-
CAS-Stanford ERC	1011969	10,000	-	-	-	-	-	-	10,000	-	10,000	-
CAS-CWCCG	1011148	-	-	-	-	-	-	-	-	-	-	-
CAS-PSSEP	1011112	20,000	-	-	20,000	-	-	-	20,000	-	20,000	-
CAS-Misc Collaborative Sup	1014521	3,000	-	-	-	-	-	-	-	-	-	3,000
BACWA TOTAL												
		703,920	(57,184)	58,419	20,577	-	108,060	482,801	85,953	(3,666)	684,883	19,037
TECH SUPPORT												
WQA-CE Addl Work Under Permit	1014254	50,000	-	-	-	-	57,000	12,367	5,000	-	74,367	(24,367)
WQA-CE-Technical Support	1011127	50,000	-	-	-	-	28,409	-	-	-	28,409	21,591
WQA-CE CASA Chem of Concern	1011128	15,000	765	-	-	-	765	2,500	11,735	-	3,265	11,735
WQA-CE Opt-Upgrade Studies	1014255	18,128	-	-	-	-	213,792	176,634	-	-	390,426	(372,298)
WQA-CE Risk Reduction	1014023	32,500	-	-	-	-	19,648	11,451	-	-	31,099	1,401
WQA-CE-Nutrient WS Permit Comm	1014021	880,000	-	-	-	-	-	-	880,000	-	880,000	-
WQA-CE-Program Mgmt	1011131	50,000	-	-	-	-	-	-	-	-	-	50,000
WQA-CE Voluntary Nutr Contrib	1014529	-	-	-	-	-	-	-	187,500	-	187,500	(187,500)
TECH SUPPORT (CBC) TOTAL		1,095,628	765	-	-	-	319,614	202,952	1,084,235	-	1,595,066	(499,438)
GRAND TOTAL		1,799,548	(56,419)	58,419	20,577	-	427,674	685,753	1,170,188	(3,666)	2,279,949	(480,401)
BDO-Contract Expenses (PHARM)												
BDO-Contract Expenses (PHARM)	1014551	-	-	-	-	-	23,100	44,550	-	-	67,650	(67,650)
		-	-	-	-	-	23,100	44,550	-	-	67,650	(67,650)
GRAND TOTAL (BDO, CBC, PHARM)							450,774	730,303	1,170,188	(3,666)		
							TOTAL		1,896,825			
WOT												
Administrative Support	1011142	-	-	-	-	2,500	-	-	-	2,500	2,500	(2,500)
BDO Contract Expenses	1011143	-	-	-	17,785	-	-	-	69,906	-	69,906	(69,906)
		-	-	-	17,785	2,500	-	-	69,906	2,500	72,406	(72,406)
GRAND TOTAL (BDO, CBC, PHARM, WOT)		1,799,548	(56,419)	58,419	38,362	2,500	450,774	730,303	1,240,094	(1,166)	2,420,005	(620,457)



EXECUTIVE BOARD AUTHORIZATION REQUEST

AGENDA NO.: 3

FILE NO.: 18-18

MEETING DATE: July 21, 2017

TITLE: Request for BACWA Watershed Permit Fund Commitment for \$880,000

☐ RECEIPT ☐ DISCUSSION ☐ RESOLUTION ☒ APPROVAL

RECOMMENDED ACTION

Authorize payment in the amount of \$880,000 to SFEI in order to comply with the provisions of the Watershed Permit for FY18.

SUMMARY

The Watershed Permit for Nutrients from Municipal Wastewater Dischargers to San Francisco Bay, NPDES Permit No. CA 0068873 adopted April 14, 2014, requires the commitment of \$880,000 per year from POTW Dischargers as a collective effort to fund needed scientific studies as part of the implementation of the Regional Water Quality Control Board's Nutrient Management Strategy. The commitment is on a fiscal year basis and began July 1, 2014. BACWA's role in meeting this commitment is to collect the needed funds from its membership and provide those funds for the undertaking of the scientific studies. The identification of the studies to be undertaken is through a stakeholder governance Steering Committee on which BACWA holds two seats. Several studies are on-going as a result of approvals of programs and projects by the Steering Committee.

This authorization of payment in the amount of \$880,000 to SFEI will meet the fourth year of the Discharger's annual obligation under the five-year Watershed Permit.

FISCAL IMPACT

This payment and subsequent annual payments to fund the scientific studies are collected from the BACWA membership through a Nutrient Surcharge that is included on the annual dues invoices to the BACWA members. FY 18 invoices will be sent to the BACWA membership in August 2017. Although funds are currently available in the BACWA CBC Fund to pay the \$880,000 invoice, staff monitors cash flow to ensure that a comfortable level of reserves are maintained and thus will pay the invoice as FY 18 revenues are received from the membership. At the latest payment is expected to be made by the end of September.

ALTERNATIVES

Do not fund the Commitment. This alternative is not recommended since the payment is a regulatory requirement. BACWA members who do not participate in the payment of the Nutrient Surcharge will have individual permits issued by the Water Board.

Attachments: SFEI Invoice and Request Letter

Approved: _____

Jim Ervin, Chair,
BACWA Executive Board

Date: _____

July 17, 2017

Bay Area Clean Water Agencies
Attn: David R. Williams
PO Box 24055, MS 59
Oakland, CA 94623

Cc: Thomas Mumley, Naomi Feger, San Francisco Bay Regional Water Quality Control Board

Subject: Distribution of WS Permit Funds

Dear Mr. Williams,

We request that BACWA transfer \$880,000 of the Nutrient Watershed Permit FY2018 funds to SFEI. SFEI will use these funds to carry out the FY2018 studies approved by the Nutrient Management Strategy Steering Committee at their June 9, 2017 meeting, some of which had effective start dates of July 1, 2017.

All of the work carried out using the Nutrient Watershed Permit funds will be overseen by the Steering Committee, as outlined in the Nutrient Management Strategy Charter. SFEI will meet with and provide periodic updates to the Steering Committee on work progress and finances, and receive feedback on work to date and advising on future activities.

Please let me know if any other information is required. Thank you.



Sincerely,
David Senn, Ph.D.
4911 Central Ave.
Richmond, CA 94804
davids@sfei.org
p: 510-746-7366
f: 510-746-7300

Invoice

**San Francisco Estuary Institute
4911 Central Ave.
Richmond, CA 94804
EIN 94-2951373**

July 17, 2017
Project No: 1092.60
Invoice No: 1092601

Bay Area Clean Water Agency
PO Box 24055, MS702
Oakland, CA 94623

Project 1092.60 SF Bay Nutrient Strategy Support FY2018
attn: Sherry Hull

Professional Services from July 01, 2017 to June 30, 2018

Fee	880,000.00
Total this Invoice	\$880,000.00



EXECUTIVE DIRECTOR AUTHORIZATION REQUEST

FILE NO.: 18-17

DATE: June 30, 2017

TITLE: Executive Director Authorization for an Agreement with EOA, Inc. for the development of a scope of work for technical assistance needed to support Regional Water Board staff in the adoption of a chlorine residual Basin Plan Amendment.

RECOMMENDED ACTION

BACWA Executive Director authorization for an agreement with EOA, Inc. for the period of July 1, 2017 through December 31, 2017, in an amount not to exceed \$4,700.00, to provide a scope of work for the technical assistance needed to support the Regional Water Board staff in the adoption of a chlorine residual Basin Plan Amendment.

SUMMARY

The BACWA Executive Director will execute an agreement with EOA, Inc. for the period of July 1, 2017 through December 31, 2017 to provide a scope of work for the technical assistance needed to support the Regional Water Board staff in the adoption of a chlorine residual Basin Plan Amendment, not to exceed \$4,700.00. The work will include coordination with the Water Board staff in developing the scope and an estimate of the cost to complete the scope of work.

FISCAL IMPACT

For FY18, \$4,700.00 of the total contract value will be funded by the General Technical Support budget line item in the approved FY18 BACWA budget.

ALTERNATIVES

Do not complete this work – this is not recommended since the chlorine residual limit in the Basin Plan has resulted in many violations over the years that were due to short term chlorine spikes or very low levels of chlorine residual neither of which has any environmental impact but which exceed the 0.0 mg/l limit in the Basin Plan.

Select another consultant to conduct the work – this is not recommended since EOA has an in-depth understanding of the chlorine residual issue as well as knowledge of what is needed to successfully implement a Basin Plan amendment.

Attachments:

1. EOA Scope of Work
2. Rate Sheet

Approved:

David R. Williams

David R. Williams
Executive Director, BACWA

Date:

June 30, 2017



BACWA
BAY AREA
CLEAN WATER
AGENCIES

FILE # 18-17

Date: June 27, 2017

BAY AREA CLEAN WATER AGENCIES

CONSULTING AGREEMENT

TO: Dr. Thomas W. Hall
EOA, Inc.
1310 Jackson Street
Oakland, CA 94612

twhall@eoainc.com
510-832-2852

FROM: David Williams, Executive Director
BACWA
PO Box 24055, MS702
Oakland, CA 94623

dwilliams@bacwa.org
Phone: 925-765-9616
FAX: (510) 287-1351

RE: BACWA Agreement for FY17 with EOA, Inc. to provide to provide a scope of work for the technical assistance needed to support the Regional Water Board staff in the adoption of a chlorine residual Basin Plan Amendment.

This Agreement covers professional services included in the Scope of Work attached from July 1, 2017 through December 31, 2017 to be performed by EOA, Inc. The work under this agreement will be carried out under the supervision of David R. Williams of BACWA. The total cost of professional services to be performed by EOA, Inc. is not to exceed \$4,700.00 This contract will be funded by the BACWA Budget under the General Technical Support line item in the FY18 BACWA Budget approved on April 21, 2017.

This Agreement may be terminated by either party at any time for convenience with 30-day notice. In the event of termination by BACWA, BACWA shall pay EOA, Inc. for professional and competent services rendered to the date of termination upon delivery of assigned work products to BACWA.

EOA, Inc. shall submit invoices to the BACWA Assistant Executive Director via e-mail along with approval of payment by David R. Williams. Invoices shall indicate hours associated with each task. Invoices will be paid within thirty (30) days of receipt.

BACWA AED E-mail: Sherry Hull shulll@bacwa.org

Approved:

By _____
David R. Williams
BACWA Executive Director

By Ray Guebel
EOA, Inc.

Date June 30, 2017

Date 6-30-17

BACWA EIN: 94-3389334

COMPANY EIN: 94-2977419



Environmental and Public Health Engineering

June 13, 2017

Sent via email to: dwilliams@bacwa.org

Mr. David Williams
Executive Director
Bay Area Clean Water Agencies (BACWA)
PO Box 24055, MS 59
Oakland, CA 94623

Subject: Proposal for Chlorine Residual Basin Plan Amendment Scope of Work Preparation

Dear Dave:

As requested, this letter transmits EOA's proposed scope of work and budget to assist BACWA with developing a scope of work outline for the technical assistance needed to support Regional Water Board (RWB) staff in adoption of a chlorine residual Basin Plan (BP) Amendment.

This proposal provides for approximately 18 hours to coordinate with BACWA members and RWB staff to develop a list of tasks where BACWA will provide technical support to the RWB in development of the documents needed for the BP Amendment. Our total budget is \$4,700, which includes a small allowance for incidental expenses in accordance with the fee schedule. The majority of assistance will be provided by Dr. Tom Hall, EOA Managing Engineer III. The work will be conducted on a time-and-materials basis according to the attached EOA 2017 Fee Schedule.

Work anticipated under this budget includes assistance with the following tasks, as directed by BACWA, and subject to the overall project budget. Work could include items such as:

- Meetings with BACWA and RWB staff
- Identification of chlorine residual water quality criteria for inclusion in the BP
- Identification of strategies of use of dilution credits in calculating effluent limits
- Identification of continuous monitoring compliance determination strategies including calculation of reporting levels and statistically based compliance frequencies
- Review of previous chlorine residual approaches by the SWRCB and other RWBs
- Preparation of draft scope of work for the agreed upon BACWA technical assistance

Sincerely,
EOA, Inc.

A handwritten signature in cursive script, reading "Ray Goebel".

Ray Goebel, P.E.
Vice President – Operations

Attachment: EOA 2017 Fee Schedule



Environmental and Public Health Engineering

2017 FEE SCHEDULE

The following fee schedule covers personnel rates for EOA, Inc. staff.

Our charges are divided into two categories: personnel, and direct expenses. A new fee schedule is issued at the beginning of each year. Charges for all work, except where other arrangements have been made, are based on the new schedule of charges.

PERSONNEL

Personnel charges are for any technical, clerical or administrative work necessary to perform the project. Work tasks include geologic and environmental consulting, engineering and computer services, regulatory liaison, and report preparation. Personnel rates are as follows:

Personnel Category	Hourly Rates
Principal Engineer	\$263
Managing Engineer/Scientist III	\$255
Managing Engineer/Scientist II	\$242
Managing Engineer/Scientist I	\$231
Senior Engineer/Scientist III – Project Leader	\$212
Senior Engineer/Scientist/Planner II	\$194
Senior Engineer/Scientist/Planner I	\$178
Associate Engineer/Scientist III	\$169
Associate Engineer/Scientist II	\$160
Associate Engineer/Scientist I	\$137
Technician	\$108
Clerical/Computer Data Entry	\$76

Charges for professional services are in increments of one quarter-hour. Depositions/legal testimony charged portal-to-portal, at 200% of standard rates, with a four-hour minimum charge. In accordance with California Civil Procedure 2037.7, where applicable, the minimum fee must be paid prior to commencement of testimony. Preparation for court cases is charged on a time-and-materials basis as outlined in this fee schedule.

DIRECT EXPENSES

Reimbursement for expenses directly related to services provided will be charged at cost plus 10%. Examples of such direct expenses include:

- Costs of sub-consultants or subcontractors
- Costs of special fees (insurance, permits, etc.)
- Costs of long-distance telephone, copying, drafting, blueprints, etc. (EOA copies charged at \$0.10 each for B&W, \$0.35 each for color. Large format \$0.15/sq ft for B&W, \$0.50/sq ft for color)
- Costs of color map production supplies (color ink and large format paper)
- Costs or rental of special equipment
- Costs of authorized travel outside Bay Area
- Automobile mileage directly related to services, at current IRS rate (2017 rate is \$0.535/mile)

INVOICES

Invoices are prepared and submitted on a monthly basis, as either final or progress billings and are payable upon receipt unless prior arrangements have been made. Interest of 1-1/2% per month, or the maximum rate allowed by law, is payable on accounts not paid within 30 days.

		DRAFT AGENDA FOR PRE-PARDEE SEMINAR
		September 15, 2017
	<u>Time</u>	<u>Topic</u>
Morning		
	9:00 AM	<u>Watershed Permit Status</u>
		Review of Permit Requirements
		Optimization/Upgrade Project Update
		Group Annual Report
	10:30 PM	<u>2nd Watershed Permit Status</u>
		Review of Nutrient Surcharge and Annual Updates
		Establishiing a Baseline for Early Actions
		The Role of Trading
		Scope of the Regional Study on Non-Grey Scape Alternative for Nutrient Reduction
		Need for Subgroup Management of Efforts
	11:45 PM	<u>PCB/HG Watershed Permit</u>
		Review of Tentative Order
		Approach to Risk Reduction
Lunch Break	12:15 PM	
Afternoon		
	12:45 PM	<u>Chlorine Residual Basin Plan Amendment</u>
		Desired Outcome
		Draft Scope of Work
		Cost and Schedule
		Project Review
	1:30 PM	<u>Toxicity</u>
		Status of Litigation
		Review of Proposed Toxicity Provisions
		Approach for Future Permits with Toxicity Limits
	2:15 PM	<u>Administrative Issues</u>
		Review of Classes of Membership and Fees
		Summary of Board Policies and Staff Procedures
Adjourn	3:00 PM	

		Draft PROGRAM			
		BACWA ANNUAL TECHNICAL SEMINAR			
		October 26 - 27, 2017			
		EBMUD Pardee Facility			
Day	Time	Theme	Attendees	Item	Topic
Thur	8:30 AM		BACWA Members and Staff		<u>Breakfast</u>
	9:15 AM	BACWA Operational			<u>Financial</u>
				1	FY 18 Budget
				2	5 Year Plan
					-Assumptions for Future Dues/CBC/Nutrient Surcharges
					-5 Year Plan Scenarios
				3	Brainstorming on How To Make BACWA Better
					-Board Meetings
					-Committees
					-Outreach
					-Representation
					-Engagement
	10:30 AM	Nutrients - 2nd Watershed Permit			<u>Update and Discussion</u>
				4	Confirmation on Approach
					-Review of Nutrient Surcharge and Annual Updates
					-Establishing a Baseline for Early Actions
					-The Role of Trading
					-Scope of the Regional Study on Non-Grey Scape Alternative for Nutrient Reduction
					-Need for Subgroup Management of Efforts
	Noon				<u>Lunch</u>
	12:45 PM	Nutrients - 2nd Watershed Permit (con't)			
	1:45 PM	Other Regulatory Issues	Board/ED/Staff/Associates		<u>Update and Discussion</u>
				5	Air Regulations
					-Rule 11-18
					-Clean Air Plan

				6	Regulatory Hot Topics
					-Debrief on Toxicity Workshop
					-Proposed Toxicity Provisions
					-Biosolids Survey
					-BACWA's Role in TNI Implementation
	3:00 PM				<u>Break</u>
	3:15 PM			7	Regulatory Update
					-CEC Voluntrary Participation
					-SFEI's Microplastics Strategy
					-Regulatory Issue Matrix
				8	Engaging the Water Board
					-2nd WS Permit
					-Chlorine Residual
					-Toxcity
					-PCB/Hg Ws Permit
	4:45 PM		WB/D. Senn Arrives		<u>Break for Day</u>
	6:30 PM		Board/ED/Staff/Associates/ WB/D. Senn		<u>Dinner</u>
Fri	8:00 AM	Coordination with WB	BACWA Members/Staff/WB/David S./HDR		<u>Breakfast</u>
					<u>Update and Discussion</u>
	8:30 AM			9	Watershed Permit Compliance
					-Optimization/Updgrade Update on Findings
					-Cost of No Net Loading Increase
					-Group Annual Report
					-Capital Projects
					-Recycling
					-Sea Level Rise
	10:15 AM			10	Concise Summary on State of the Science
	10:30 AM				<u>Break</u>
	10:45 AM			11	2nd WS Permit
					-Status on Funding

					-Establishin a Baseline
					-Role of Trading
					-Scope of Work for Regional Study on Non-Grey Scape Alternatives
	12:00 PM				<u>Lunch</u>
	11:00 AM			12	PCB/Hg Watershed Permit
				13	Chlorine Residual Basin Plan Amendment
	1:30 PM			14	<u>Other Technical/Regulatory Issues</u>
					-DWR Survey on Recycling
					-Recycled Water Permitting
					-Update on CEC's Management Strategy
					-Toxicity Plan
					-Status of work on near shore discharges
					-Impact of BAAQMD Regulations
					-Other Issues
	2:45 PM				<u>Adjourn</u>

June 8, 2017

Dave Williams
Executive Director
Bay Area Clean Water Agencies (BACWA)
PO Box 24055, MS 59
Oakland, CA 94623

Dear Dave,

At the suggestion of CASA Executive Director Bobbi Larson, I am pleased to provide this letter describing the Public Policy Institute of California's (PPIC) upcoming research project: ***Protecting Water Quality with a Changing Climate***. I hope that you will join CASA and others in the wastewater community in supporting this project, which will add to the ongoing conversation regarding preparing California for future climate variability.

Led by PPIC's Water Policy Center—with support from Jim Cloern (USGS), Jay Lund (UC Davis), Kurt Schwabe (UC Riverside), and Leon Szeptycki (Stanford)—the research project will begin in summer 2017. Building on lessons learned from the latest California drought, including a similar study recently conducted by PPIC on urban water suppliers, the project team will survey California's wastewater agencies to learn about institutional responses to drought and how agencies are preparing for anticipated future challenges.

Small workshops held in different regions will help the team gather feedback from local managers and stakeholders to hone the assessment and further explore survey responses. A qualitative assessment of local and state policies, planning, and impacts will be complemented by various quantitative analyses, such as data on influent and effluent flow rates and concentrations from treatment plants throughout the state during the latest drought. Flow rates and concentrations will be linked to conservation actions by retail water agencies to highlight the linkages and potential impacts of water conservation programs on treatment plants and their discharges. In addition, the impacts of drought and water conservation on recycled water use and the associated financial impacts arising from operational adjustments will be analyzed.

Findings will be summarized in a short, accessible report to be released in summer 2018. An accompanying communications strategy will help maximize the publication's impact on policymakers and the broader public discourse on California's water issues. Total project costs are estimated at roughly \$250,000 and we are actively seeking external funding from a range of partners to supplement support from the US EPA and demonstrate the broad appeal of this work.

Thank you for the opportunity to share this brief project description with you and for your Board's consideration of project support. Please feel free to contact me at (415) 291-4433 or hanak@ppic.org if you or your Board members have any questions.

Sincerely,



Ellen Hanak
PPIC Water Policy Center Director and Senior Fellow

Draft

Part 3 of the Water Quality Control Plan
for Inland Surface Waters,
Enclosed Bays, and Estuaries of
California—Bacteria Provisions and a
Water Quality Standards Variance
Policy

June 30, 2017

[The entirety of the following text, except the italicized annotations, is proposed to be adopted as Part 3 of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California—Bacteria Provisions and a Water Quality Standards Variance Policy (Part 3). Part 3 would constitute new regulatory language. Several editorial revisions may be made, including but not limited to appropriate changes to the title page, table of contents, appendices, page numbers, table and figure numbers, footnote numbers, and headers and footers, when Part 3 is incorporated into the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California (ISWEBE Plan).¹]

II. BENEFICIAL USES

[Proposed text to be added to Chapter II (Beneficial Uses) of the ISWEBE Plan.]

The Regional Water Quality Control Boards (Regional Water Boards) shall use the following beneficial use and abbreviation listed below to the extent such activities are defined in a water quality control plan after *[insert effective date of Part 3]*:

Limited Water Contact Recreation (LREC-1): Uses of water that support limited recreational activities involving body contact with water, where the activities are predominantly limited by physical conditions such as very shallow water depth or restricted access and, as a result, body contact with water and ingestion of water is infrequent or insignificant.

III. WATER QUALITY OBJECTIVES

[Proposed text to be added to Chapter III (Water Quality Objectives) of the ISWEBE Plan.]

E. Bacteria

1. Applicability

Chapter III.E.2 establishes water quality objectives for reasonable protection of people that recreate within all surface waters, enclosed bays, and estuaries of the state that have the water contact recreation beneficial use (REC-1).²

2. Bacteria Water Quality Objectives

Chapter III.E.2 contains three BACTERIA WATER QUALITY OBJECTIVES applicable to waters with the REC-1 beneficial use, depending on the location or salinity level, as discussed below (see Table 1).

¹ The State Water Board intends to amend the Water Quality Control Plan for Enclosed Bays and Estuaries of California to create the ISWEBE Plan. The ISWEBE Plan would incorporate Part 3.

² As of the effective date of Part 3 of the ISWEBE, the BASIN PLAN (p. 3-4) for the Lahontan Regional Water Board contains fecal coliform bacteria water quality objectives that are generally applicable to all surface waters within the region and not expressly established for the reasonable protection of the REC-1 beneficial use. Part 3 of the ISWEBE establishes numeric bacteria water quality objectives for the REC-1 beneficial use and, therefore, would apply to applicable waters within the Lahontan region that have the REC-1 beneficial use and does not supersede the fecal coliform bacteria objectives.

E. coli

The bacteria water quality objective for all waters, except Lake Tahoe, where the salinity is less than 10 parts per thousand (ppt) 95 percent or more of the time during the CALENDAR YEAR³ is: a six-week rolling GEOMETRIC MEAN of *Escherichia coli* (*E. coli*) not to exceed 100 colony forming units per 100 milliliters (cfu/100 mL), calculated weekly, and a STATISTICAL THRESHOLD VALUE (STV) of 320 cfu/100 mL not to be exceeded more than 10 percent of the time, calculated monthly.

The bacteria water quality objective for Lake Tahoe is: a six-week rolling GEOMETRIC MEAN of *E. coli* not to exceed of 17 cfu/100 mL, calculated weekly, and a STV of 55 cfu/100 mL not to be exceeded more than 10 percent of the time, calculated monthly.

United States Environmental Protection Agency (U.S. EPA) recommends using U.S. EPA Method 1603 (U.S. EPA, 2002b) or other equivalent method to measure culturable *E. coli*.

Enterococci

The bacteria water quality objective for all waters where the salinity is equal to or greater than 10 ppt 95 percent or more of the time during the CALENDAR YEAR is: a six-week rolling GEOMETRIC MEAN of enterococci not to exceed 30 cfu/100 mL, calculated weekly, with a STV of 110 cfu/100 mL not to be exceeded more than 10 percent of the time, calculated monthly.

U.S. EPA recommends using U.S. EPA Method 1600 (U.S. EPA, 2002a) or other equivalent method to measure culturable enterococci.

To determine attainment of the *E. coli* and enterococci BACTERIA WATER QUALITY OBJECTIVES, the GEOMETRIC MEAN values shall be applied based on a statistically sufficient number of samples, which is generally not less than five samples equally spaced over a six-week period. If a statistically sufficient number of samples are not available to calculate the GEOMETRIC MEAN, then attainment of the water quality standard shall be determined based on the STV.

³ Terms in "ALL CAPS" font (except abbreviations) are defined in the Glossary, Attachment A.

Table 1 – REC-1 Bacteria Water Quality Objectives

Applicable Waters	Objective Elements	Estimated Illness Rate (NGI): 32 per 1,000 water contact recreators	
		Magnitude	
	Indicator	GM (cfu/100 mL)	STV (cfu/100 mL)
All waters, except Lake Tahoe, where the salinity is less than 10 ppth 95 percent or more of the time	<i>E. coli</i>	100	320
Lake Tahoe	<i>E. coli</i>	17	55
All waters, where the salinity is equal to or greater than 10 ppth 95 percent or more of the time	Enterococci	30	110
<p>The waterbody GM shall not be greater than the applicable GM magnitude in any six-week interval, calculated weekly. The applicable STV shall not be exceeded more than 10 percent of the time, calculated monthly.</p> <p>NGI = National Epidemiological and Environmental Assessment of Recreational Water gastrointestinal illness rate GM = geometric mean ppth = parts per thousand STV = statistical threshold value cfu = colony forming units mL= milliliters</p>			

3. Interaction of Bacteria Water Quality Objectives with Basin Plans

The BACTERIA WATER QUALITY OBJECTIVES supersede any numeric water quality objective for bacteria for the REC-1 beneficial use contained in a BASIN PLAN. The BACTERIA WATER QUALITY OBJECTIVES do not supersede any site-specific numeric water quality objective for bacteria established for the REC-1 beneficial use before or after *[insert the effective date of Part 3]*.

Total maximum daily loads (TMDLs) established before *[insert prior to the effective date of Part 3]* to implement numeric water quality objectives for bacteria are in effect for numerous waterbodies throughout the state. A Regional Water Quality Control Board may convene a public meeting to evaluate the effectiveness of the TMDL in attaining the BACTERIA WATER QUALITY OBJECTIVES.

IV. IMPLEMENTATION

[Proposed text to be added to Chapter IV (Implementation) of the ISWEBE PLAN.]

E. Bacteria

1. Applicability

Any of the BACTERIA WATER QUALITY OBJECTIVES shall be implemented, where applicable, through National Pollutant Discharge Elimination System (NPDES) permits issued pursuant to section 402 of the Clean Water Act, water quality certifications issued pursuant to section 401 of the Clean Water Act, waste discharge requirements, and waivers of waste discharge requirements, except to discharges for which load allocations or waste load allocations are assigned by a TMDL established before *[insert the effective date of Part 3]*.

The GEOMETRIC MEAN contained in the applicable BACTERIA WATER QUALITY OBJECTIVES shall be strictly applied in all circumstances, including in the context of a TMDL established after *[insert the effective date of Part 3]*. The STV contained in the applicable BACTERIA WATER QUALITY OBJECTIVES shall be strictly applied in all circumstances, except in the context of a TMDL. In the context of a TMDL, Regional Water Boards may implement the applicable STV by using a reference system/anti-degradation approach or natural sources exclusion approach.

2. Natural Sources of Bacteria

a. Applicability

The implementation procedures contained in Chapter IV.E.2 apply to non-point source discharges except on-site wastewater treatment system discharges, and storm water discharges regulated pursuant to section 402(p) of the Clean Water Act except industrial storm water discharges, and may only be implemented within the context of a TMDL.

b. Reference System/Antidegradation Approach and Natural Sources Exclusion Approach

TMDLs include waste load allocations for point sources, load allocations for nonpoint sources, and natural background levels to identify and enumerate each individual source.

In the context of a TMDL developed to attain the BACTERIA WATER QUALITY OBJECTIVES, a reference system/antidegradation approach may be utilized to ensure: (1) bacteriological water quality is at least as good as that of an applicable REFERENCE SYSTEM, and (2) no degradation of existing water quality is allowed when the existing water quality is better than the REFERENCE SYSTEM. In such circumstances, the TMDL may include a certain frequency of exceedance of the applicable BACTERIA WATER QUALITY OBJECTIVES STV based on the observed exceedance frequency in the applicable REFERENCE SYSTEM or the targeted waterbody, whichever is less.

In the context of a TMDL developed to attain the BACTERIA WATER QUALITY OBJECTIVES, a natural source exclusion approach may be utilized after all anthropogenic sources of bacteria are identified, quantified, and controlled. In such circumstances, the TMDL may include a certain frequency of exceedance of the applicable BACTERIA WATER QUALITY OBJECTIVES STV based on the observed exceedance frequency of the identified and quantified natural sources of bacteria of the targeted waterbody.

3. High Flow Suspension of the Water Contact Recreation (REC-1) Beneficial Use

A WATER BOARD may adopt a high flow suspension of the water contact recreation (REC-1) beneficial use that reflects water conditions considered unsafe for the REC-1 beneficial use due to high water flow or velocity. A rain fall measure, flow measure, or other requirements shall be established by the WATER BOARD to describe specific conditions during which the high flow suspension would apply. To adopt a high flow suspension of the REC-1 beneficial use, the WATER BOARD must conduct a use attainability analysis as described in 40 Code of Federal Regulations sections 131.3(g) and 131.10(g). A WATER BOARD's adoption of a high flow suspension of the REC-1 beneficial use is subject to review and approval by the State Water Board (if the adopting WATER BOARD is a Regional Water Board) and U.S. EPA.

If a high flow suspension of the REC-1 beneficial use is adopted, the bacteria water quality objectives for the REC-1 beneficial use do not apply during the period of time that the REC-1 use is suspended; however, during all other times outside of the period of the high flow suspension, the bacteria water quality objectives for the REC-1 use apply. Bacteria water quality objectives for other applicable beneficial uses, including noncontact water recreation (REC-2), remain in effect.

4. Seasonal Suspension of the Water Contact Recreation (REC-1) Beneficial Use

A WATER BOARD may suspend the water contact recreation (REC-1) beneficial use to reflect water conditions considered inapplicable or unsafe for the REC-1 beneficial use due to low water flows, low water temperatures, or conditions that freeze water. A flow measure, water temperature measure, or other condition(s) shall be established by the WATER BOARD to describe specific conditions during which the seasonal suspension would apply. To suspend the REC-1 beneficial use, the WATER BOARD must conduct a use attainability analysis as described in 40 Code of Federal Regulations sections 131.3(g) and 131.10(g). A WATER BOARD's adoption of a seasonal suspension of the REC-1 beneficial use is subject to review and approval by the State Water Board (if the adopting WATER BOARD is a Regional Water Board) and U.S. EPA.

If a seasonal suspension of the REC-1 beneficial use is adopted, the bacteria water quality objectives for the REC-1 beneficial use do not apply during the period of the seasonal suspension; however, during all other times outside of the period of the seasonal suspension, the bacteria water quality objectives for the REC-1 use apply. Bacteria water quality objectives for other applicable beneficial uses, including noncontact water recreation (REC-2), remain in effect.

5. Limited Water Contact Recreation (LREC-1) Designation

A WATER BOARD may designate a waterbody or waterbody segment(s) with the Limited Water Contact Recreation (LREC-1) beneficial use. A WATER BOARD must conduct a use attainability analysis as described in 40 Code of Federal Regulations sections 131.3(g) and 131.10(g) if application of the LREC-1 beneficial use requires a less stringent water quality objective for bacteria than the previously applicable bacteria water quality objective for the REC-1 use. A WATER BOARD's designation of the LREC-1 beneficial use is subject to review and approval by the State Water Board (if the adopting WATER BOARD is a Regional Water Board) and U.S. EPA.

F. WATER QUALITY STANDARDS VARIANCES

Federal regulations establish an explicit regulatory framework for the adoption of a water quality standards variance (WQS VARIANCE) that states may use to implement adaptive management approaches to improve water quality (40 C.F.R. § 131.14.). As a result, a WATER BOARD may adopt a WQS VARIANCE in accordance with the federal rule.

Attachment A. Glossary

BACTERIA WATER QUALITY OBJECTIVES: The bacteria water quality objectives set forth in Chapter III.E.2.

BACTERIA PROVISIONS: The Limited Water Contact Recreation (LREC-1) beneficial use contained in Chapter II, the BACTERIA WATER QUALITY OBJECTIVES contained in Chapter III, and the implementation sections contained in Chapter IV.

CALENDAR YEAR: A period of time defined as twelve consecutive CALENDAR MONTHS.

CALENDAR MONTH(S): A period of time from a day of one month to the corresponding day of the next month if such exists, or if not to the last day of the next month (e.g., from January 3 to February 3 or from January 31 to February 29).

BASIN PLAN: Also known as a water quality control plan, a basin plan consists of a designation or establishment for the waters within a specified area of all of the following: (1) beneficial uses to be protected, (2) water quality objectives, and (3) a program of implementation needed for achieving water quality objectives.

GEOMETRIC MEAN (GM): In mathematics, the geometric mean is a type of mean or average, which indicates the central tendency or typical value of a set of numbers by using the product of their values (as opposed to the arithmetic mean which uses their sum). The geometric mean is defined as the n th root of the product of n numbers.

REFERENCE SYSTEM: A reference system is an area and associated monitoring point that is not impacted by human activities that potentially affect bacteria densities in the receiving waterbody.

STATISTICAL THRESHOLD VALUE (STV): The STV approximates the 90th percentile of the water quality distribution of a bacterial population that should not be exceeded by more than 10 percent of the samples taken.

WATER BOARD(S): The individual or collective regulatory entity consisting of the State Water Resources Control Board and/or the nine Regional Water Quality Control Boards.

WQS VARIANCE: A water quality standards variance as defined by 40 Code of Federal Regulations section 131.3(o), is a time-limited designated use and criterion for a specific pollutant(s) or water quality parameter(s) that reflect the highest attainable condition during the term of the WQS variance.

PESTICIDE REGULATIONS

LINK to BACWA Pyrethroid Comment Letter submitted to the EPA on July 7, 2017

<https://bacwa.org/document/bacwa-pyrethroid-comment-letter-july-7-2017/>

LINK to DRAFT BACWA Imidacloprid Comment Letter due July 24, 2017

<https://bacwa.org/document/bacwa-imidacloprid-comment-letter-due-7-24-17/>

LINK to DRAFT BACWA Diquat Dibromide Comment Letter due July 24, 2017

<https://bacwa.org/document/bacwa-dwdb-comment-letter-due-7-24-17/>

LINK to DRAFT BACWA Boric Acid Swim Pool Comment Letter due 7-24-17

<https://bacwa.org/document/boric-acid-swim-pool-comment-letter-due-7-24-17/>

**Clean Water State Revolving Fund (CWSRF)
Potential Application Scoring System Survey**

Please indicate (Yes or No) which of the following criteria you think the Division of Financial Assistance (DFA) should include in a future application scoring system for the CWSRF program. If you think DFA should include the criterion in the scoring system, please check the appropriate column to indicate how that criterion should be weighed in the scoring system.

Criteria	Yes or No	Weight		
		low	med	high
Public Health				
Project addresses documented disease outbreak	Yes	X		
Project addresses documented human health threat, such as failing septic systems, contamination of a current drinking water source, beach closures, or fish consumption advisory	Yes			x
Project protects source water	Yes			x
Project eliminates dry weather overflows	Yes			x
Project eliminates wet weather overflows	Yes			x
Water Quality/Enforcement/Permit Compliance				
Project addresses prohibition instituted by a Regional Water Board	Yes			x
Project will address a current time schedule order	Yes			x
Project will reduce or eliminate permit violations	Yes	x		
Project is necessary to maintain compliance with effluent limitations	Yes		x	
Project helps meet a Total Maximum Daily Load	Yes		x	
Project reduces pollutant concentrations in groundwater/drinking water supply	Yes			x
Project Readiness				
Plans and specifications are complete	Yes			x
Environmental review is complete and agency has adopted its environmental documents	Yes			x
Construction has started	Yes		x	
Construction is complete	Yes	x		
Financial Need/Affordability				
Applicant is a small, disadvantaged community, i.e., population <20,000 and median household income <80% of statewide median household income	No			
Applicant is a small, severely disadvantaged community, i.e., population <20,000 and median household income <60% of statewide median household income	Yes		x	
Applicant community's sewer rate exceeds a median household income threshold	No			
Applicant has a high bond rating	No			
Applicant has a low bond rating or no bond rating	No			
Sustainability				
Project results in more efficient water management by recycling wastewater, dry weather runoff, stormwater, or a combination of these sources	Yes			x

**Clean Water State Revolving Fund (CWSRF)
Potential Application Scoring System Survey**

Project promotes energy efficiency or sustainability	Yes			x
Project implements green infrastructure or low impact development	Yes			x
Project mitigates or adapts to climate change effects	Yes			x
Project supports infill development	Yes		x	
Project is cited in one or more regional environmental management plans	Yes	x		
Project assists in the restoration or protection of waters designated by the state or federal governments as sensitive, such as Areas of Special Biological Significance or a National Estuary	Yes	x		
Project restores or protects natural hydrology	Yes	x		
Project reduces or eliminates the discharge of contaminants of emerging concern	Yes	x		
Project results in the regionalization or consolidation of facilities	No			
Project results in environmental benefits in addition to its water quality benefits, such as solid waste disposal, agricultural waste disposal, or air quality improvements	Yes			x
Cooperative Funding/Financing Readiness				
Applicant has secured other sources of funding that complement CWSRF dollars	No			
State bond funds that complement CWSRF dollars are currently appropriated to the State Water Board	No			
Applicant has submitted a complete application at scoring time	Yes			x
Applicant's revenues are sufficient to secure the financing at scoring time, i.e., no additional revenue needs to be approved to secure the financing	Yes			x
Applicant has obtained all key permits, approvals, and property rights at scoring time	Yes			x
Other Factors				
Project was on the previous year's fundable list, but a financing agreement was not executed	Yes			x
Applicant has submitted letters of support for its project	No			
Applicant has received CWSRF financing in the past	No			
Suggested Factors				

**Clean Water State Revolving Fund (CWSRF)
Potential Application Scoring System Survey**

Additional Comments:

BACWA has the following additional comments.

1. Maintain the Geographic Distribution split in the June 2015 Water Recycling Funding Program (WRFP) Guidelines
 - i. A minimum of 40 percent of the funds to projects within, Los Angeles County, Orange County, Riverside County, San Bernardino County, San Diego County and Ventura County.
 - ii. A minimum of 40 percent of the funds distributed to projects within the remaining counties.
 - iii. The remaining 20 percent will be distributed to water recycling projects located in any California county.
2. For those projects that have submitted a complete application for WRFP funding, allow the projects to begin construction prior to issuance of a funding agreement without jeopardizing reimbursement for construction costs.

Please provide your contact information below if you would like us to contact you regarding this survey:

Name: Rhodora Biagtan, Recycled Water Committee Chair

Telephone Number: (925) 875-2255

Agency/Company: BACWA

Email Address: biagtan@dsrsd.com

Please email completed survey by 8/4/2017 to Cheng Vue at cheng.vue@waterboards.ca.gov.

air pollutants (100/250 tons per year, tpy) is not appropriate; however, the CO₂e threshold that the Air District is proposing of 25,000 tpy corresponds to a relatively small combustion source. If best available control technology (BACT) is applied, the corresponding NO_x emission levels may be as low as 2 tpy, far below the 100/250 tpy levels in PSD or Title V. Sources emitting at these levels are clearly minor sources. Both PSD and Title V were established as part of "major source" programs. The 25,000 tpy CO₂e level has no correlation to the original major source size envisioned by Congress. Therefore, **BACWA recommends an approach that is consistent with the Congressional intent of regulating large sources, coupled with a strategy to develop a more permanent regulatory path for GHGs that recognizes the inherent differences between GHGs and criteria pollutant emissions.** Two potential approaches are summarized below:

- A more logical approach to determining a threshold that represents "major sources" might be to use a combustion device, such as a boiler, and determine its CO₂ level when operating at the criteria pollutant major source threshold for NO_x (100 tpy). Using this approach, a boiler operating at a level of 12 ppm NO_x fueled with natural gas would yield CO₂ emissions of approximately 777,000 tpy.
- Another approach would be to establish a CO₂ level that would be equivalent to the Title V extreme non-attainment area major source threshold of 10 tpy. The NO_x 10 tpy level roughly equates to about 100,000 tpy CO₂. Using this level, instead of the much lower 25,000 tpy level, would minimize the impact to stationary sources while staying consistent with the Congressional intent of regulating major sources, and according to EPA's assessment, bring a significant number of new sources into the programs.

Additionally, the Air District staff prepared a summary of their *GHG Prevention of Significant Deterioration/Best Available Control Technology (PSD/BACT) Threshold Analysis* (completed in April 2017) - see Attachment A. For clarification, we have corrected the headings in Table 1, to accurately identify the columns. The data show that if the threshold is decreased by 50,000 metric tons per year CO₂e, Air District staff estimate the number of permits to be processed will **double** with only a 10% increase in capture of GHG emissions. The Air District is already struggling to provide timely review of current permit applications due to limited staff and budget constraints. This change is projected to double the number of PSD permits for a very small benefit. **BACWA strongly recommends the Air District support the 75,000 metric ton (or greater) per year CO₂e threshold proposed by the U.S. EPA under the federal program.**

Biogenic vs. Anthropogenic CO₂ Emissions

The Air District explicitly references support for EPA's definition of GHGs that applies toward the threshold in the proposed revisions to Regulation 2, Rule 2. The EPA performed a permit analysis over several years and ultimately decided to focus on *large, fossil-fuel combustion sources*, stating in the Federal Register, Volume 81, No. 191 dated October 3, 2016 (some text is underlined for emphasis):

"A second key finding from our review of past permitting actions was that the emissions from large, fossil-fueled combustion units were generally the principle cause for "“anyway sources”" ... Across all industry categories, we found that "“anyway sources”" have been triggering PSD primarily because of the addition or modification of combustion units. Most of these projects involved some combination of turbines, boilers, process heaters/furnaces, and stationary IC engines that were principally fired with either diesel fuel or natural or process gas, with smaller numbers of biomass-fueled units. We found that even for a specific sector such as the oil and gas industry, where there are a variety of fugitive emission

sources, combustion emissions still dominate the emission profile and are the primary driver of PSD applicability for new construction and major modification projects."

At the June 12th public workshop held in Martinez on the Proposed Revisions, Air District staff stated wastewater digester gas would be considered in the calculation of CO₂e. However, biogenic emissions, like digester gas and landfill gas, are part of the natural carbon cycle and generally do not count towards regulatory requirements. Sources whose CO₂ emissions are largely biogenic, such as landfills and POTWs, would easily exceed any threshold established as part of this proposal, regardless of the facility's size.

We strongly support EPA's decision to focus on fossil-fuel combustion units based on the prevalence of those units as the primary GHG-emitting sources as determined by the EPA's permit analysis. **BACWA recommends the Air District focus on fossil-fuel based combustion sources and:**

"...exclude carbon dioxide emissions resulting from the combustion or decomposition of non-fossilized and biodegradable organic material originating from plants, animals, or micro-organisms (including products, by-products, residues and waste from agriculture, forestry and related industries as well as the non-fossilized and biodegradable organic fractions of industrial and municipal wastes, including gases and liquids recovered from the decomposition of non-fossilized and biodegradable organic material).

40 CFR Part 52 Subpart A, Section 52.21(a)(49)(ii)(a)

Attachment B was provided by BAAQMD staff to illustrate the translation of natural gas usage to GHG emissions. The table references wastewater treatment digester gas in the notes below the table (as shown). In support of the recommendation above to focus on fossil-fuel based combustion sources, **BACWA recommends deleting "digester gas" from the table notes.**

GHG Emissions Reduction and Exposure to Toxics

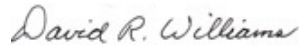
Regulatory actions may seem effective when each media (air, water, land) is addressed separately, however, deficiencies become evident when regulations are viewed holistically for protecting the overall environment and public health. POTWs are regulated by multiple governmental agencies whose goals for air, water, and land can result in contradictory impacts to the municipal wastewater sector. BACWA previously submitted a letter to BAAQMD (addressed to Christy Riviere, Principal Environmental Planner, June 6, 2014) detailing the impact cross-media issues can have on wastewater treatment plants.

There are increasing concerns about cross-media impacts and the potential operational and financial effects they will have on POTWs that must meet water quality objectives while also maintaining compliance with regulations that support contradictory goals. For example, there are regulatory efforts to reduce GHG emissions (global pollutant) as well as toxic air contaminants (TACs, local pollutant). While the state and BAAQMD are encouraging an increase in digester gas production from the diversion of food waste to POTW digesters to reduce methane emissions at landfills (in turn to generate renewable electricity and/or low carbon transportation fuel), the combustion of the digester gas leads to the generation of formaldehyde, a TAC. If Regulation 2 counts the GHG emissions from the combustion of digester gas toward the BACT threshold, it is more likely to trigger BACT. Both the potential cost to implement BACT and the generation of formaldehyde from the combustion of digester gas threaten the feasibility of diverting organics from landfills to POTWs as a methane reducing strategy under SB 1383. **BACWA recommends BAAQMD exempt projects that contribute toward achieving state goals to reduce GHG emissions through diversion of organic waste from landfills and increase production of**

biogas for generation of renewable energy or fuel.

Thank you for the opportunity to comment on the Proposed Revisions to Regulation 2. We would be happy to discuss any questions regarding these comments. Nohemy Revilla and Randy Schmidt, BACWA AIR Committee Co-Chairs, can be reached at NRevilla@sfwater.org and RSchmidt@centralsan.org, respectively.

Sincerely,



David R. Williams
BACWA Executive Director

Cc: BACWA Executive Board
Nohemy Revilla, BACWA AIR Committee Co-Chair
Randy Schmidt, BACWA AIR Committee Co-Chair
Courtney Mizutani, BACWA AIR Committee Project Manager
Sarah Deslauriers, BACWA AIR Committee Project Manager

BACWA - BAAQMD Workshop Summary: Impact of Proposed Rule 11-18 on Bay Area Wastewater Treatment Facilities

Date: June 1, 2017
Time: 10 AM- 12 PM
Location: BAAQMD Office - 375 Beale Street, San Francisco, CA 94105
Attendees: Jaime Williams, Eric Stevenson, Sanjeev Kamboj, Victor Douglas, Carol Allen, Simrun Dhoot (BAAQMD); Dave Williams (BACWA ED); Nohemy Revilla (SFPUC); Chris Dembiczak (EBMUD); Randy Schmidt and Rita Cheng (CCCSD); Ken Davies and Jason Nettleton (San Jose); Mike Connor (EBDA); Amanda Roa (Delta Diablo); Courtney Mizutani (Mizutani Environmental), Sarah Deslauriers (Carollo)
Via phone: Stephanie Smallwood (Sunnyvale), Patrick Griffith (LACSD)

The purpose of the meeting was to address specific details of the proposed Rule 11-18 language that impact Publicly Owned Treatment Works (POTWs) in the Bay Area. The discussion was largely focused on modeling inputs and the impact of those inputs on POTW prioritization scores resulting from the screening level health risk assessments performed by BAAQMD. Notes below are provided by agenda item.

1) Health Risk Assessment Modeling

- a. **Influent Flow and Concentration Data.** Confirmed and discussed that emissions factors in the BAAQMD database do not reflect current POTW influent concentrations or influent flow. For example, perchloroethylene is showing as a compound driving risk for several POTWs; however, the data used by BAAQMD is from the 1990s and does not reflect the fact that this compound is no longer in use by dry cleaners. Table 1 (attached) summarizes data from EBMUD, Palo Alto, and SFPUC and shows how BAAQMD assumptions on influent flow and concentrations (from the 1990s) differ from current influent flow and concentrations for various compounds. Table 3 (attached) shows the relative importance of specific Toxic Air Contaminant (TAC) compounds to each Phase 1 facility's prioritization score, and Table 4 (attached) shows the date of the most recent emission factors for specific TACS by facility used to estimate prioritization scores. Tables 3 and 4 informed the discussion and the importance for updating input data to ensure accurate estimates of the prioritization scores.

The list of compounds considered for the risk screening differs from the list of regularly sampled compounds at POTWs; additionally, many of the compounds included in routine sampling are not detected at POTWs. BAAQMD (Carol Allen) requested that POTWs (EBMUD and/or CCCSD) send the list of compounds for which they sample so she can compare that list with the full TAC List. BAAQMD (Sanjeev Kamboj) requested POTWs submit raw data for the past 5 years. Chris Dembiczak (EBMUD) suggested that, in order to provide context for BAAQMD, POTWs could review their data internally (removing outliers) and summarize the results for submission to BAAQMD, noting detection limits for compounds that are not detected. BAAQMD (Eric Stevenson) requested this data be sent to Brenda Cabral. BAAQMD stated they would not include compounds that are not observed/detected at POTWs in the risk modeling. BAAQMD (Eric Stevenson) also noted there would then need to be a policy-

level decision made regarding how to handle those compounds that are not observed/detected -- this is an issue that impacts other industries as well. BAAQMD (Carol Allen) will review OEHHA guidelines on this issue and history of compounds will be considered. **NOTE:** A similar evaluation was conducted when AB 2588 became effective, and the list of compounds considered for POTWS under that effort was very small relative to the full list of toxics under AB 2588.

- b. **Proximity Adjustment Factors.** The basis for determining the proximity or distance adjustment factors was discussed in depth and Table 2 (attached) was referenced during the discussion. The distance adjustment factor (as well as the screening level assessment) is intended to be ultra conservative. BAAQMD requested BACWA members evaluate the nearest distance from a source to an off-site worker and residential receptor for each facility and send the information to Carol Allen to update the factors used in the modeling. Using GoogleMaps is sufficient to show the location of the POTW (with the fence line) and measure the nearest distances from sources to receptors and is the preferred approach to present the information.
- c. **Emission Sources and Factors.** Other emission sources and factors (such as combustion) were discussed. BAAQMD (Carol Allen) commented that she felt the data for diesel particulate matter (DPM) was good (referencing information from SCAQMD and certified sources). She also commented that simple modifications, like increasing the stack height by 5 feet, would reduce risk significantly. BAAQMD (Eric Stevenson) asked that uncommon situations (outliers) be shared (like EBMUD's use of diesel at the cogeneration facility), and stated that BAAQMD is open to the idea of conducting source testing. These uncommon situations would be considered after the influent flow, influent concentration, and proximity distance factor data has been updated. BAAQMD (Carol Allen) also noted that for the purpose of modeling, the hours for maintenance and testing would be used, not the actual hours of emergency use.

In terms of looking at specific TACs, updating the influent data and proximity adjustment factor with current information is recommend as a first step, then BAAQMD is willing to consider additional source testing as necessary.

BAAQMD (Eric Stevenson) proposed the following approach:

1. POTWs update influent flow and concentration and proximity adjustment factors;
2. BAAQMD to rerun the screening level model to update prioritization scores;
3. If a "risky source" can be identified and the input data is determined to be out of date or unreliable, the BAAQMD will consider additional source testing.

Once the initial prioritization scores are re-evaluated, we will have a better idea about the path going forward.

- 2) The proposed rule 11-18 is scheduled to go to the Board for consideration in September 2017. BACWA received a letter from BAAQMD noting that all POTWs will be considered part of Phase

2. The original phases 3 and 4 no longer exist under the revised proposed Rule 11-18; those sources will either move to phase 2 or be addressed by other regulations.

3) Summary of **priority action items**:

- a) BACWA members to provide nearest distance from source to offsite worker and resident receptors. This information will be used by BAAQMD to update proximity adjustment factors for each facility. The data can be submitted to Sarah Deslauriers and Courtney Mizutani who will summarize the data, estimate the proximity adjustment factors by facility, and submit the information to BAAQMD (specifically, Carol Allen), so that BAAQMD modeling staff can process all at once.
- b) EBMUD and CCCSD to compile influent sampling data (from their LIMS) for the last five years (showing all non-detects), provide review of and format the data, and develop a list of typical TAC compounds routinely sampled (note frequency of sampling) to provide to BAAQMD staff. BAAQMD staff will use this information to determine a short-list of TACs that are relevant to POTWs for the purposes of Rule 11-18.
- c) Following the update to preliminary prioritization scores (i.e., completing action items a and b above), BACWA and BAAQMD staff to look to AB 2588 guidance on source test methods for the relevant compounds.
- d) BAAQMD staff and BACWA members to coordinate a meeting within the next two months to discuss progress on data collection and updates to prioritization scores for POTWs, next steps related to updating emission factors, and TBARCT cost-benefit.

Sherry Hull

From: Sherry Hull
Sent: Wednesday, July 19, 2017 9:50 AM
To: Sherry Hull
Subject: DRAFT email to BACWA members requesting them to estimate their Proximity Adjustment Factors under Rule 11-18

From: Sarah A. Deslauriers [<mailto:SDeslauriers@carollo.com>]
Sent: Wednesday, July 19, 2017 9:09 AM
To: Lorien Fono <lfono@bacwa.org>; Randy Schmidt <RSchmidt@centralsan.org>; Revilla, Nohemy <NRevilla@sfwater.org>; David Williams <dwilliams@bacwa.org>
Cc: Courtney Mizutani <cmizutani@sbcglobal.net>
Subject: DRAFT email to BACWA members requesting them to estimate their Proximity Adjustment Factors under Rule 11-18

Hi All,

Please review the DRAFT email below and let me know if you have any edits. Jeff Gregory (Superintendent for the City of Benicia) called with questions, which helped inform some language I used.

Subject: Need BACWA Member Response by August 25th.

Hello,

BACWA needs all members to respond to an important request from the Bay Area Air Quality Management District (BAAQMD)!

BAAQMD has proposed a new regulation – Regulation 11, Rule 18 (Rule 11-18): Reduction of Risk from Air Toxic Emissions at Existing Facilities (including POTWs). In implementing Rule 11-18, Air District staff will conduct site-specific screening analyses for all facilities that report toxic air contaminant emissions, and calculate health prioritization scores based on the amount of toxic air pollution emitted, the degree of toxicity of these pollutants, and the proximity of these facilities to local communities. For facilities that have priority scores above 10, the Air District would conduct health risk assessments. Based on the health risk assessments, facilities found to have a potential health risk above the Risk Action Level will be required to reduce their risk below the Risk Action Level, or install Best Available Retrofit Control Technology for Toxics on all significant sources of toxic emissions.

BACWA has met with BAAQMD to discuss Rule 11-18's potential impact on POTWs. BAAQMD staff estimated health prioritization scores on old data, but have agreed to work with BACWA to update the scores with current data to determine how many (if any) and which facilities this Rule may impact. First factor to update is the proximity adjustment factor (nearest distance from a source to offsite workers and residents). **We need POTWs to estimate and submit the distances from their sources to each type of receptor to make sure the correct proximity adjustment factor is used.**

How to estimate the proximity (distance) to nearest receptors:

There are two types of receptors – residential and offsite worker. BAAQMD uses the NEAREST distance from a source (e.g., a stack, headworks, an open tank, a digester, diesel generator, a fugitive emission area such as a stockpile or a pipe valve/flange) to each type of receptor.

1. Offsite worker receptor - BAAQMD includes buildings and areas where workers commonly convene for a typical work day. This does not usually include parking lots, but would apply to a guard/attendant station.

2. Residential receptors - BAAQMD marks the distance from the edge of the resident's property line. If the property is very large, such as farm land, BAAQMD would use its judgement.

NOTE: A site may need to use a different source for a residential receptor vs an offsite worker receptor to estimate the nearest distance to each. For example, if offsite workers are closest to the east side of the site and the nearest resident is closest to the west side of the site, measure from the farthest east side source to the nearest east side offsite worker and the farthest west side source to the nearest west side resident to determine both distances.

Maps or aerial photos (e.g., GoogleMaps) work well for these quick analyses. Be sure to clearly identify the site's property boundary and the distances from each onsite source to each offsite receptor. As an example, Palo Alto has graciously shared their analysis (**Thank you, Samantha/Palo Alto!!**).

Palo Alto - Estimates of nearest distances to receptors (taken from GoogleMaps):

Distance from plant fenceline to nearest residential property line: ~3,000 ft (shown below)

Distance from plant fenceline to nearest offsite worker: ~100 ft

Distance from incinerator to nearest offsite worker: ~179 ft

Distance from headworks to nearest offsite worker: ~200 ft



Please contact us with any questions. We have set a deadline to **collect this information by August 25th**, in order to provide the data to BAAQMD staff to update the health prioritization scores prior to adoption of the Rule (expected in September).

Regards,

Sarah A. Deslauriers, P.E.
Carollo Engineers, Inc.
2700 Ygnacio Valley Road, Suite 300

Courtney Mizutani, P.E.
Mizutani Environmental
5100-1B Clayton Road, PMB #129

Walnut Creek, CA 94598
Main: 925-932-1710
Mobile: 925-705-6404
sdeslauriers@carollo.com
www.carollo.com

Concord, CA 94521
Main: 925-686-5533
cmizutani@sbcglobal.net



BACWA-BAAQMD Annual Meeting Summary

Date: June 21, 2017
Time: 11 AM - 3 PM
Location: BAAQMD Office - 375 Beale Street, San Francisco, CA 94105
Attendees: Victor Douglas, Guy Gimlen, Sanjeev Kamboj, Ronald Pilkington, Robert Cave, Carol Allen, Brenda Cabral, Simrun Dhoot, Idania Zamora, Flora Chan, Alfonso Borja, Alison Kirk (BAAQMD); Dave Williams (BACWA ED); Laura Pagano, Meei-Lih Ahmad, and Nohemy Revilla (SFPUC); Randy Schmidt and Rita Cheng (CCCSD); Ron Hipkiss (FSSD); Tim Grillo (USD); Norman Domingo (SVCW); Karin North, Samantha Engelage, and Kelsi Oshiro (Palo Alto); Jason Nettleton (San Jose); Rita Miller and Heaven Moore (Santa Rosa); Melody Tovar and Stephanie Smallwood (Sunnyvale); Amanda Roa (Delta Diablo); Brian Whitaker (CH2M Hill); Courtney Mizutani (Mizutani Environmental); Sarah Deslauriers (Carollo)
Via phone: Ken Davies (San Jose)

Each summer the Bay Area Clean Water Agencies' Air Issues and Regulation Committee (BACWA AIR) meets with the Bay Area Air Quality Management District (BAAQMD) to discuss hot topics. Notes are provided below by agenda item.

1) Clean Air Plan

BAAQMD staff (Idania Zamora) presented an overview of the Clean Air Plan, the overall goals and relevant elements to POTWs (presentation attached). She stated that BAAQMD would like to conduct more research on POTWs to better understand methane and nitrous oxide emissions (under control measure WR1). The Air District noted five measures (SS16, WA1, WA2, WA3, and WR1) to be prioritized for implementation. BAAQMD expressed willingness to work directly with BACWA members through the development and implementation of measures to inform the process. BAAQMD will convene a methane expert workgroup and recommends BACWA members participate in the workgroup, contribute comments as opportunities arise, and share about any pilot projects that may inform BAAQMD on issues related to the Clean Air Plan.

BAAQMD stated that they see no conflict among control measures within the Clean Air Plan - saying they expect control measures SS16 (Basin-Wide Methane Strategy) and WR1 (Limit GHGs from POTWs) to be coordinated. Staff did not address the conflict between SS20 (Air Toxics Risk Cap and Reduction from Existing Facilities) and WR1 (Limit GHGs from POTWs) for POTWs.

BACWA developed Handout 1 (attached) to list and summarize those Control Measures that are relevant to POTW. This list is not only for BAAQMD's knowledge, it is also for BACWA members' use to plan for potential future restrictions and/or changes in operations and timeline for potential capital improvement projects.

2) **Particulate Matter (Regulation 6, Rule 1)**

BAAQMD is proposing a new umbrella regulation, "Regulation 6: General Provisions, Definitions and Test Methods," as well as draft amendments to Regulation 6, Rule 1: General Requirements and other new rules under Regulation 6. The requirement to reduce the total suspended particles concentration and mass emission limits just two years after adoption could directly impact a number of POTWs. BAAQMD staff (Guy Gimlen) presented an overview and answers to questions (presentation attached). Regulation 6 is unlikely to impact POTWs in general and will follow up with CCCSD to ensure it is not applicable to their incinerators.

BAAQMD discussed dust caused by truck track-out from construction sites or facilities that receive high frequency of truck traffic per day (i.e., >15 trucks per day) may trigger compliance under this regulation (e.g., screens, using mist or plants to serve as wind screens, covering conveyor belts, etc.). Since the majority of facility roads are paved, this is unlikely to impact POTWs.

Particulate matter precursors include sulfur dioxide and ammonia. BAAQMD would like to understand ammonia sources and management at POTWs better to improve their inventory. Specifically, staff is concerned about biosolids and compost facilities since they are finding spikes in ammonia around these facilities.

3) **Proposed Rule 11-18 - Reduction of Risk from Air Toxic Emissions at Existing Facilities**

BAAQMD staff (Carol Allen) provided a summary of the Proposed Rule 11-18 (adoption planned in late September 2017), as well as a status update on the collaborative effort between BACWA members and BAAQMD staff to update POTW prioritization scores (with current influent flow and concentration data, and the current proximity adjustment factors), as well as identify the need for updating specific emission factors.

Once prioritization scores have been updated, if a POTW's score is >10 then the Air District can work with POTWs to ensure the final score is accurate based on specific inputs. If the final score is >10, then a health risk assessment (HRA) must be performed. The Air District will work with its own consultants to perform HRAs. The surrounding community must be notified and procedures will be developed by the Air District for facilities (POTWs) to follow.

This process and the air pollution control equipment that is considered in compliance with Rule 11-18 will be reviewed every 10 years.

NOTE: As required by AB 197, toxic air emissions will be posted online at [CARB's Pollution Mapping Tool - Sources in Your Community](#) website beginning January 1, 2018.

4) **Permits for Temporary Pilot Test Projects**

BACWA and BAAQMD discussed the potential for developing a process to provide permits for temporary pilot projects. BACWA members suggested that BAAQMD consider:

- a. Temporary stand-alone permits.
- b. A separate HRA for a temporary stand-alone unit.
- c. Although dated, consider South Coast Air Quality Management District' procedures for Research Projects as a starting point (refer to Handout 2). BAAQMD staff requested

BACWA provide several examples of pilot projects that have been approved by Rule 441 under SCAQMD and provide the context of those projects, as well as for projects that BACWA members are considering. BAAQMD staff needs to know the characterization of emissions, conditions of the project, and overall context explaining why the project is being considered.

BAAQMD staff also mentioned there are several options in place that may be sufficient depending on the project type and duration. The options staff listed include:

- a. An accelerated permit process
- b. Alteration - project that does not result in a change of emissions.
- c. Portable Equipment Permit
- d. Approval for research through the Enforcement Group - if existing facilities are being used and there are only changes in operations, then the Enforcement Group could grant approval for research.

If it is a short term project (≤ 3 years), an HRA is likely to be required under the current system.

5) **Organic Waste Diversion in support of ARB's Short-Lived Climate Pollutant Reduction Strategy** (refer to Handout 3)

BACWA provided an update to BAAQMD staff on the impact of Senate Bill 1383 on POTWs - SB 1383 mandates 75% diversion of organic waste from landfills statewide by 2025 in effort to reduce methane (a short-lived climate pollutant, SLCP) from landfills and incentivize an increase in production of biogas. The SLCP Reduction Strategy calls on POTWs with excess anaerobic digestion capacity to be part of the solution by accepting food waste to co-digest it with solids to generate biogas and beneficially use it as a transportation fuel (offsetting fossil fuel based transportation fuel). However, the draft definition of organic waste includes "biosolids, sludges, and digestate" and the Reduction Strategy is silent on how to handle the resulting biosolids from co-digestion with food waste. Given over 50% of biosolids in the Bay Area are sent to landfills to be used as alternative daily covers, this presents a serious near-term challenge.

BAAQMD staff recommended looking into the new LACSD compost facility to understand that operation and consider a similar operation in northern California.

6) **Action Items:**

- a. BAAQMD staff requested BACWA provide several examples of pilot projects that have been approved by Rule 441 under SCAQMD and provide the context of those projects, as well as for projects that BACWA members are considering.

From: Gilbert-Snyder, Paul [<mailto:paul.gilbert-snyder@ebmud.com>]
Sent: Thursday, June 22, 2017 4:37 PM
To: David Williams <dwilliams@bacwa.org>; Sherry Hull <shull@bacwa.org>
Cc: Coburn, Yenny <yenny.coburn@ebmud.com>
Subject: Closure of Prop 50 Accounts

Good afternoon Dave & Sherry –

As we discussed yesterday, the Prop 50 grant is now complete. Once the two pending DAs (SFPUC & NCCWD) have been processed, all grant participants will have been fully reimbursed for their share of up front admin costs.

After the two pending DAs are processed, there will be a remaining balance of \$11,575.48 in the Prop 50 account (per Yenny's note below). In order to close out the Prop 50 account, BACWA should transfer the amount of \$11,575.48 to BACWA's general account.

Of the \$11,575.48, \$1,500 belongs to the City of San Jose and the remainder, \$10,075.48, belongs to BACWA. The BACWA share is the result of BACWA Prop 50 admin costs that have not been previously reimbursed from the Prop 50 account.

Please let me know if you have any questions regarding the remaining funds, or if you need any additional assistance in closing out Prop 50.

Thanks,
Paul

From: Coburn, Yenny
Sent: Thursday, June 22, 2017 11:44 AM
To: Gilbert-Snyder, Paul; Sherry Hull
Subject: RE: Prop 50 balance

Paul & Sherry,

Please see below and I agree with Paul numbers.

Vendor Name	Vendor Code	DA/PV	PO#	Inv. #	Inv. Date	Org	Prog.	A/C	Inv. Mat	Pymt Date
EBMUD	EAB50000	DA	N/A	4600007654- 23/24/25/27 &R16	9/18/12	815	9202	6970	49,777.61	5/26/17
					- 10/18/13					
EBMUD	EAB50000	DA	N/A	4600007654- 24/25/26/27 &R16	- 7/20/16	815	9202	6970	19,141.63	6/16/17

				10/18/13						
Santa Clara Valley Water District	DA	N/A	4600007654- 24/25/26/27 &R16	- 7/20/16 10/18/13	815	9202	6970	17,641.63	6/16/17	
City of Palo Alto	DA	N/A	4600007654- 24/25/26/27 &R16	- 7/20/16	815	9202	6970	6,380.55	6/16/17	
Sonoma Valley County Sanitation District	DA	N/A	4600007654- 22/23/24/25/26/27 &R16	8/10/11 - 7/20/16	815	9202	6970	5,517.87	6/16/17	
City of Redwood City	DA	N/A	4600007654- 22/23/24/25/26/27 &R16	8/10/11 - 7/20/16	815	9202	6970	6,380.55	6/16/17	
North Marin Water District	DA	N/A	4600007654- 22/23/24/25/26/27 &R16	8/10/11 - 7/20/16	815	9202	6970	3,828.33	6/16/17	
Alameda County Water District	DA	N/A	4600007654- 22/23/24/25/26/27 &R16	8/10/11 - 7/20/16	815	9202	6970	9,196.44	6/16/17	
Zone 7 Water Agency	DA	N/A	4600007654- 22/23/24/25/26/27 &R16	8/10/11 - 7/20/16	815	9202	6970	9,196.44	6/16/17	
Montara Water & Sanitary District	DA	N/A	4600007654- 23/24/25/26/27 &R16	9/18/12 - 7/20/16	815	9202	6970	1,593.51	6/16/17	
Contra Costa Water District	DA	N/A	4600007654- 22/23/24/25/26/27 &R16	8/10/11 - 7/20/16	815	9202	6970	9,196.44	6/16/17	
Marin Municipal Water District	MAM55000 DA	N/A	4600007654- 22/23/24/25/26/27 &R16	8/10/11 - 7/20/16	815	9202	6970	5,517.87	6/16/17	
TOTAL May - 06/16/17 Prop 50 payments										
SFPUC - Pending										
NCCWD - Pending										
TOTAL with pending items										

**Prop 50 Fund Balance as of
04/30/17**

Remaining Prop 50 balance

City of San Jose

Thank you,
Yenny S Coburn
Accountant III
yenny.coburn@ebmud.com | MS402
(510) 287-1218



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From: Coburn, Yenny [<mailto:yenny.coburn@ebmud.com>]
Sent: Thursday, June 22, 2017 10:28 AM
To: Gilbert-Snyder, Paul <paul.gilbert-snyder@ebmud.com>
Cc: Sherry Hull <shull@bacwa.org>
Subject: RE: Prop 50 balance

Paul,

The Prop 50 balance as of 04/30/17 is \$176,095.72. The 05/31/17 balance won't be ready until next week of early July 2017.

Thank you,
Yenny S Coburn
Accountant III
yenny.coburn@ebmud.com | MS402
(510) 287-1218



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From: Gilbert-Snyder, Paul
Sent: Thursday, June 22, 2017 8:41 AM
To: Coburn, Yenny
Cc: Sherry Hull (shull@bacwa.org)
Subject: Prop 50 balance

Hi Yenny –

First, I'd like to confirm that the following matches up with all of the recent disbursements from the Prop 50 account (with the exception of the \$1,500 allocated to the City of San Jose, which has not been disbursed).

Project Sponsor	Final Disbursement
CCWD	\$9,196.44
EBMUD	\$19,141.63
City of Redwood City	\$6,380.55
City of Palo Alto	\$6,380.55
Santa Clara Valley Water Dist (& San Jose)*	\$17,641.63
City of San Jose**	\$1,500.00
North Coast County WD (& SFPUC)***	\$7,467.61
SFPUC****	\$12,183.76
NMWD	\$3,828.33
Zone 7	\$9,196.44
MMWD	\$5,517.87
Montara Water & San Dist	\$1,593.51
Alameda County	\$9,196.44
Sonoma Valley County	\$5,517.87
TOTAL	\$114,742.62

Once you confirm those numbers, please provide me with the remaining balance in the Prop 50 account and I will provide Sherry and Dave with instructions on how to handle those funds.

Thanks!!!

Paul

*Paul Gilbert-Snyder, PE
East Bay Municipal Utility District
Water & Natural Resources
375 Eleventh Street, MS 902
Oakland, CA 94607-4240
510-287-0432*

Sherry Hull

From: Sherry Hull
Sent: Wednesday, July 19, 2017 11:47 AM
To: Sherry Hull
Subject: FW: Thank you for your sponsorship! - 2015 State of the Estuary Conference

TWO PASSES ARE AVAILABLE TO THE STATE OF THE ESTUARY CONFERENCE ON OCTOBER 10-11, 2017 IN OAKLAND.

LINK TO CONVERENCE: <http://www.sfestuary.org/state-of-the-estuary-conference/>

PLEASE NOTE THAT THE RMP PORTION OF THE CONFERENCE IS OPEN TO ALL BACWA MEMBERS.

From: Natasha Dunn [mailto:natasha.dunn@sfestuary.org]
Sent: Thursday, June 22, 2017 2:00 PM
To: David Williams <dwilliams@bacwa.org>
Subject: Thank you for your sponsorship! - 2015 State of the Estuary Conference

Dear Dave,

Thank you for your support for the Partnership's 13th Biennial State of the San Francisco Estuary Conference (<http://www.sfestuary.org/state-of-the-estuary-conference/>). We have received your payment and are excited to have BACWA as a sponsor.

Later this summer we will send you more details about the conference, but in the meantime please send us the **contact information** for the person responsible for coordinating your **complementary registration passes. We will send instructions when registration opens in August.**

In addition, if you plan on having a **sponsor table** at the conference, please send us the **contact information** for the person responsible for coordinating the table set up at the conference. We will contact this person as the date approaches to get your exact requirements and send instructions on when and how to set up the table.

Feel free to contact us with any additional questions about the conference.

Thank you again for your support. We are looking forward to seeing you at this exciting event!

Sincerely,

Natasha Dunn

Natasha Dunn | Environmental Planner

Arleen Navarret Biennial Award

\$1,000

Proposed Timeline for 2018 Award

October 9, 2017 – Distribute Notification to BACWA Member Agencies to Submit Nominations/Applications

November 10, 2017 – Deadline to Submit Application

November 17 – December 8, 2017 – Selection Panel Evaluation of Candidates

December 11, 2017 – Notify Candidates and BACWA Board of Selection Panel's Decision

January ??, 2018 BACWA Annual Members' Meeting – Present Award to Recipient

Proposed Outreach to Solicit Applications/Nominations

- 1) BACWA Bulletin
- 2) BACWA Website Posting
- 3) E-mail Distribution Lists for Committees
- 4) BACWA Member E-mail Distribution List
- 5) Announcements at Committee Meetings

Proposed Selection Panel Members

- 1) BACWA Executive Board Representative (Board member should not be from an agency where a nomination has been submitted). (Jim Ervin, San Jose)
- 2) Last Recipient of Award (2016, Karri Ving, SFPUC)
- 3) BACWA Member Agency Representative (??) (Last Karin North, Palo Alto)

Note: Final composition of panel may be dependent upon applications received, to avoid potential conflicts of interest.

Reference Materials Attached:

- 1) 2018 Application/Nomination Form
- 2) 2018 Evaluation Form



BACWA
BAY AREA
CLEAN WATER
AGENCIES

Arleen Navarret Leadership Award

Name: _____

E-mail: _____

Agency: _____

Phone: _____

What is it?

This award of \$1,000 was created in honor of Arleen Navarret and her dedication to improving the health of the San Francisco Bay. Arleen spent nearly 30 years with the San Francisco Public Utilities Commission and provided leadership to BACWA and Tri-TAC boards and committees. Her combination of technical and regulatory expertise and interpersonal skills has been invaluable to BACWA. Her development of effective relationships with regulators and community-based non-profits has resulted in the development of more thoughtful and effective water quality regulations. This is a biennial award honoring emerging leaders in the BACWA community exhibiting characteristics possessed by former BACWA Chair, Arleen Navarret:

- Leadership in the workplace and wastewater community
- Commitment to environmental protection
- Mentorship of and compassion for others
- Technical expertise
- Ability to communicate effectively with a myriad of people
- Exemplary public service.

Who is eligible?

Only current employees of BACWA member agencies are eligible to receive this award.

How to apply

Applicants may nominate themselves, or be nominated by their colleagues. Applications must include:

1. Completed Nomination Form
2. Individual Narrative (in the following format)
 - a. nominee name at the top of each page
 - b. no more than 2 pages of double-spaced, 12 point font
 - c. concise introductory paragraph describing who the individual is and why they are being nominated
 - d. subsequent paragraphs that address
 - i. specific work or activities of the nominee that meet the one or more of the following criteria for the award: leadership; environmental protection; mentorship; tech expertise; effective communication; public service
 - ii. the specific opportunity to which the award could be applied and how it would benefit the awardee in their professional development related to one or more of the following: leadership; environmental protection; tech skills development
 - e. concluding paragraph describing how this individual has or has the potential to positively impact and contribute to the wastewater community.



B A C W A
BAY AREA
CLEAN WATER
AGENCIES

Arleen Navarret Leadership Award

Deadline and Selection

Applications are due November 10, 2017 and should be submitted by e-mail as an attachment to shull@bacwa.org. The winner will be selected by the Award Committee and the award will be presented to the recipient at the BACWA Annual meeting on January 19, 2018. (Funds may be used for travel, lodging and meals, but not any alcoholic beverages.)

Name: _____

E-mail: _____

Agency: _____

Phone: _____

**Bay Area Clean Water Agencies Arleen Navarret Leadership Award
Candidate Evaluation Form**

Candidate Name: _____

Current Employee of BACWA Member Agency? (yes or no) _____

<i>Criteria</i>	<i>Rating: 1 -5 1 (lowest) 5 (highest)</i>	<i>Comments</i>
Leadership in the workplace and wastewater community		
Mentorship of and compassion for others		
Commitment to environmental protection		
Technical expertise		
Ability to communicate effectively with a myriad of people		
Exemplary public service		
Value of professional development to be funded by award money		

Rating Total: _____

Additional Comments:

CALIFORNIA ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Preliminary Draft Regulations Outline
July 2017

Article 1 – Definitions

Article 2 – Accreditation Requirements

I. General Accreditation Criteria

- Adds to existing criteria for accreditation by requiring compliance with 2016 TNI Standard, Volume 1 (with the exception of Board recommended modifications)
- Changes requirement for on-site assessment from every two years to every three years

II. Application

- Streamlines administrative processes
 - Updates application
 - Reduces the number of days a laboratory has to correct an incomplete renewal application from ninety days to fifteen days
 - All applications will be due by same date annually, rather than a rolling basis

III. Management and Technical Requirements (Laboratory Standards)

- Only two modifications to the TNI Standard:
 - Technical Manager Qualifications
 - Proficiency Testing (PT) frequency
- Three year delayed compliance with TNI requirements upon adoption of regulations
- Early TNI adopters will be given priority status and reduced accreditation process time

IV. Field(s) of Accreditation

- Repeals Article 6 (Test Methods) and Article 12 (Fields of Testing). Replaces with Field(s) of Accreditation tables located on ELAP's website, which will be updated to address ongoing needs of agency partners

V. Proficiency Testing

- Makes PT requirements consistent with 2016 TNI Standard, Volume 1 (with the exception of PT frequency)
- Requires acceptable PT scores prior to application for certification
- Modifies PT requirements for toxicity bioassay
- Adds and/or clarifies penalty for failing to achieve acceptable PT scores during annual and renewal cycles
- Provides requirements for reinstatement after suspension due to failing to achieve acceptable PT scores
- Adds requirement for alternative demonstration of capability when there is no PT study available for California specific analytes

CALIFORNIA ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Preliminary Draft Regulations Outline
July 2017

VI. On-Site Assessment

- Adds detail to Corrective Action report requirements, including timelines for:
 - Laboratory submittal of Corrective Action Report (45 days)
 - Laboratory submittal of revised Corrective Action Report (30 days)

Article 3 – Types of Accreditation

I. Renewal Accreditation

- Introduces monetary fines of 15%-30% for late submittal of renewal application

II. Amendment Accreditation

- Specifies types of amendments
 - Change of laboratory name
 - Change of key personnel
 - Change of major instrumentation
 - Change of laboratory location
 - Adding an auxiliary laboratory
 - Adding or modifying scope of accreditation
- Addresses variances in requirements for each type of amendment
 - Timelines for notification
 - Required documentation to be submitted
 - Frequency of on-site assessments

III. Interim Accreditation

- Clarifies ELAP's use of interim accreditation

IV. Reciprocity Accreditation

- ELAP accreditation will no longer remain valid if a laboratory's primary accreditation is expired, suspended or revoked

Article 4 – Types of Laboratories

- Defines criteria for each type of laboratory
- Adds additional criteria to existing definition of auxiliary laboratory
 - Must be included in Quality Manual
- Mobile laboratories are regulated as an independent entity and not as an extension of a stationary laboratory

Article 5 – Quality Systems

I. Quality Systems

- Incorporates 2016 TNI Standard, Volume 1 into the existing required elements of the quality manual

CALIFORNIA ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Preliminary Draft Regulations Outline
July 2017

- Adds language for:
 - Standard Operating Procedures
 - Document control procedures
 - Data integrity
 - Demonstration of Capability
 - Record retention
 - Analytical methods lacking quality control procedures

II. Laboratory Personnel

- Renames Laboratory Director as Technical Manager
 - Retains existing education and experience qualifications
- Removes allowance for a person(s) with lesser qualifications to temporarily serve in the Technical Manager's absence
- Reduces the allowed time a temporary Technical Manager can serve from ninety days to thirty-five days
- Reduces the number of days an extension will be granted from ninety days to thirty-five days
- Removes educational and experience requirements for Principal Analyst and allows laboratory management to define

III. Laboratory and Equipment

- Incorporates 2016 TNI Standard, Volume 1

Article 6 – Notifications/Reporting/Record Retention and Sale of Ownership

I. Notification, Reporting, and Records Retention

- Added notification requirements for perchlorate and chlorine dioxide
- Allows subcontractor laboratories to perform notification
- Added requirement for submittal of bacterial monitoring report
- Added requirements for electronic reporting of:
 - Results conducted pursuant to Title 22, CCR, Division 4, Chapter 15 Domestic Water Quality and Monitoring
 - Results conducted pursuant to Title 22, CCR, Division 4, Chapter 15.5, Disinfectant Residuals, Disinfection Byproducts, and Disinfectant Byproduct Precursors, and Chapter 17.5 Lead and Copper.
- Standardizes reporting requirements in accordance with 2016 TNI Standard, Volume 1, Module 2, Sections 4.5, 4.13, and 5.10

II. Sale or Transfer of Ownership

- Extends notification time frame from 15 to 30 days
- Requires record retention for the previous 5 years to continue operation under original certificate
- Removes mandatory site visit and PTs for use of certificate to its expiration date

CALIFORNIA ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Preliminary Draft Regulations Outline
July 2017

Article 7 – Reasons for Denial, Suspension, or Revocation

I. Denying, Suspending, or Revoking Accreditation

- Establishes criteria for denial, suspension, or revocation of accreditation
- Establishes measures to allow data users to assess data quality from revoked laboratories:
 - Remove reference to ELAP accreditation
 - Return certificate
 - Cease all testing for regulatory purposes
 - Notify all regulatory clients
 - Provide a list of regulatory clients affected
 - Discontinue subcontracting agreements with accredited laboratories after 7 days



BACWA 2018 ANNUAL MEETING

Friday, January 19, 2018

**Scottish Rite Center
1547 Lakeside Drive, 3rd Floor
Oakland, CA**

8:30 am to 2:30 pm

Large meeting room with two projectors and screens.

Parking: 68 spaces available – first come, first serve. Additional parking, approximately 3 blocks.

BART: 12th Street Oakland Station approximately 6 blocks.

Estimated Costs: assuming 125 attendees (actual attendees in 2017: 96)

Budget in 2018: \$10,000

Venue: \$3,500-4,500

Catering: \$5,000

	MEMBER NAME	Dues				
		Dues Principals	Assoc/Affil	CBCFee	NutSurch	Total
1	City of Alameda		1600	750		2350
2	City of Albany		1600	750		2350
3	City American Canyon		1600	750	1155	3505
4	City of Antioch		1600	750		2350
5	City of Berkeley		1600	750		2350
6	City of Benicia		1600	2996	3677	8273
7	City of Belmont		1600	750		2350
8	City of Brisbane Public Works		1600	750		2350
9	City of Burlingame (Veolia Water on TR)		1600	4954	7262	13816
10	City of Calistoga		1600	1058		2658
11	CCCSD (Central Contra Costa Sanitation District)	97419		90000	106667	294086
12	CMSA (Central Marin Sanitation Agency)		8090	9050	15505	32645
13	CCSF (City and County of San Francisco)	97419		90000	106667	294086
14	Crockett Community Services District		1600	750	26	2376
15	Cupertino Sanitary District		1600	750		2350
16	DDSD (Delta Diablo Sanitation District)		8090	10635	25566	44291
17	DSRSD (Dublin-San Ramon Services District)		8090	750		8840
18	EBDA (East Bay Dischargers Authority) City of San Leandro; Oro Loma Sanitary District; Castro Valley Sanitary District; City of Hayward; Union Sanitary District	97419		90000	106667	294086
19	EBMUD (East Bay Municipal Utilities District)	97419		90000	106667	294086
20	City of Fairfield		1600	750		2350
21	FSSD (Fairfield Suisun Sewer District)		8090	12254	20788	41132
22	Las Gallinas Valley Sanitary District (LGVSD)		1600	3244	1952	6796
23	City of Livermore		8090	750		8840
24	City of Millbrae		1600	2464	4339	8403
25	City of Milpitas		1600	750		2350
26	City of Mountain View		1600	750		2350
27	Mt. View Sanitary District (MVSD)		1600	2110	2055	5765
28	Napa Sanitation District		8090	5845	3433	17368
29	North San Mateo Sanitation District (NSMSD) (Daly City)		1600	750		2350
30	Novato Sanitary District		1600	3518	2636	7754
31	City of Palo Alto		8090	36848	36803	81741
32	Pacifica		1600	750		2350
33	City of Petaluma		1600	4045	683	6328
34	Pinole/ Hercules		1600	4327	5320	11247
35	City of Piedmont		1600	750		2350
36	City of Pleasanton		1600	750		2350
37	City of Redwood City		1600	750		2350
38	City of Richmond WPCP (Veolia Water on TR)		1600	750		2350
39	Rodeo		1600	1233	607	3440
40	City of San Bruno		1600	750		2350
41	City of San Carlos		1600	750		2350
42	CSJ (City of San Jose)	97419		90000	106667	294086

	MEMBER NAME	Dues				
		Dues Principals	Assoc/Affil	CBCFee	NutSurch	Total
43	Sanitary District of Marin County No. 1 (Ross)		1600	750		2350
44	Sanitary District of Marin No. 2 (Corte Madera)		1600	750		2350
45	Sanitary District of Marin No. 5 (Tiburon & Paradise Cove)		1600	1536	1074	4210
46	San Francisco International Airport (SFIA)		1600	1508	3384	6492
47	San Mateo WWTP		8090	14317	25658	48065
48	Sausalito/Marin City Sanitary District (S/MCSD)		1600	3930	2283	7813
49	San Mateo County, Department of Public Works		1600	750		2350
50	Sewerage Agency of Southern Marin (SASM) (Mill Valley on TR)		1600	7149	3634	12383
51	Sewer Authority Mid-Coastside (SAM)		1600	750		2350
52	Silicon Valley Clean Water (SVCW)		8090	14445	35105	57640
53	Sonoma County Water Agency (SCWA)		1600	2042	390	4032
54	South San Francisco		8090	12418	18651	39159
55	City of St. Helena		1600	788		2388
56	Stege Sanitary District (SSD)		1600	750		2350
57	City of Sunnyvale		8090	9685	14545	32320
58	Tamalpais Community Services District (TCSD)		1600	750		2350
59	Treasure Island		1600	750	249	2599
60	VS&FD (Vallejo Sanitation and Flood Control District)		8090	12886	15760	36736
61	West Bay Sanitary District (WBSD)		1600	750		2350
62	WCA (West County Agency)		8090	15468	14133	37691
63	West Valley Sanitation District (WVSD)		1600	750		2350
64	Yountville		1600	997		2597
	TOTAL BACWA	\$487,095.00	\$178,770.00	\$675,000.00	\$800,008.00	\$2,140,873.00
	FY18 BUDGET FOR INVOICED REVENUES	\$487,095.00	\$178,573.00	\$675,000.00	\$800,000.00	\$2,140,668.00
	Not included - Voluntary Nutrient Contributions; WOT Contributions; Non-Member Fees					

Summary of Discussion and Action Items

BACWWA Executive Committee

Conference Call June 15, 2017

- 1. Classes for Fall 2017:** We had a good discussion on the number and offering of classes for the Fall semester at Solano. As part of the discussion some information was exchanged among the participants as follows:

Attachment A: Shows the Solano course listing and credit hours for the Water/Wastewater Program.

Attachment B: Shows a survey that was conducted by Solano March 21, 2016.

Attachment C: Shows a survey of students last modified Nov 11, 2016.

Attachment D: Shows a Needs Survey dated Nov 3, 2016.

After reviewing the data and recognizing that you could not meet all the needs in one semester, it was decided to move forward and offer 4 classes in Fall 2017 as follows:

- a. 105 Wastewater Treatment II
- b. 107 Math for Water and Wastewater Treatment
- c. 108 Water Treatment II
- d. 112 Wastewater Treatment III

Potential instructors and venues identified are as follows:

- a. 105: Monte at SCVW
- b. 107: Jordan at CCCSD
- c. 108: Dan Gill at CCCSD
- d. 112: Levi at DSRSD or WCWD

Solano generally has 17 week classes. The above classes would also be 17 weeks, unless special arrangements were made, and be for the following credits:

- a. 105: 3 credits, 3 hours/week
- b. 107: 4 credits, 4 hours/week
- c. 108: 3 credits, 3 hours/week
- d. 112: 2 credits, 2 hours/week

Classes would start the week of August 14th and end by December 17th. Finals exams would be in that final week.

- 2. Communication and Outreach:** In order to help ensure full classes, prospective students would need to be notified of the class schedule. BACWA can include a notification on the BACWA web site and in the monthly BACWA Bulletins that go out to all the BACWA members. In addition, once an electronic brochure announcing the Fall class schedule was created, BACWA would send it to all of the BACWWE sponsoring agencies for posting on their web site.

One of the key aspects of outreach is to have a complete listing of students who have participated in the programs (Solano and Gavilan) to date. BACWA has the contact lists for the Gavilan program as result of making individual payments to the students who took classes there for the Fall and Spring semesters of FY 17. Solano indicated that they have contact information for their previous students. Email notifications need to go out to all previous students so they are informed of the upcoming classes being offered. The goal is to achieve at least 20 students per class with a minimum of 10 students. The Gavilan program already had several students interested in taking Fall classes at SVCW. Eileen, Dr. Williams assistant, can send out emails to previous student at the Solano program.

In addition to the remote class sites, Solano also will be offering their normal classes at the Solano campus.

- 3. Longer Term Schedule of Classes:** It was agreed that once the Solano Program gets back on track with the Fall 2017 Semester, it would allow some breathing room to once again survey the students to ascertain their needs and then have Solano/BACWWE lay out a longer term program that projects class offerings over at least the next 12 months.

BACWWE also needs to work with Solano to clearly set forth the requirements for a certificate and for the AA degree. A suggestion was made to have a subgroup of the BACWWE membership formed to help advise on creating a longer term class schedule and certificate/degree requirements.

- 4. Logistics:** The BACWWE members need to confirm the venues for the Fall classes. As in the past Solano would be responsible for ordering and shipping the needed books to the remote sites where classes would be taught by BACWWE instructors. Levi indicated that he still has some books left over from previous classes and that he would provide that listing to the group.
- 5. Credits for Gavilan Students:** Dr. Williams indicated that Solano could offer credits to students who successfully completed course work at Gavilan. The credits would be a 1:1 ratio. Gavilan students could confer with Solano counselors to determine what additional course work they would need to complete the certificate/degree program.
- 6. Follow-Up with BACWWE:** As agreed to at the general membership meeting, the Executive committee will keep the BACWWE membership informed on progress. It was decided to hold another general membership meeting at the end of July or very early August once the Fall class schedule got confirmed as far as venues, instructors, text books, and other logistical needs. BACWA will confirm with Executive Committee on a date for the next General membership meeting.

BACWWE Executive Committee Meeting

Summary of Conference Call

July 7, 2017

- 1. Welcome and Introductions:** Participants on the call included David Williams, Chad D., Jim S., Levi F., Monte H., Dr. Williams, and Jordan D.
- 2. Review of Course Listing (course # and title):** Dr. Williams had previously circulated to the Executive Committee and instructors the latest listing of the Solano course catalog. It was pointed out that some courses had been added to the water/wastewater program but were not listed as required for a certificate or AA degree. Dr. Williams stated that the BACWWE group needs to decide if changes are needed to the courses required for the certificate or degree.
- 3. Confirmation of 4 Classes for Fall 2017:** The four classes agreed upon for the Fall Semester were confirmed. The instructors on the call reported on the status of the class details and logistics (see attached spreadsheet). BACWA will follow-up with Dan Gill as he was not able to make the conference call.
- 4. Discussion of Out Reach Needed**
 - a. Preparation of electronic Flyer for use in announcing Fall classes –**

The idea of a flyer announcing the Fall Semester was discussed. It was decided that Solano would provide a link to BACWA for their web site. BACWA will include the link on the BACWA web site and also provide the link to each BACWWE sponsor for them to include the link on their own agency web site. This will help provide outreach for the Fall Semester.
 - b. Contact information for existing students:**

- i. **Gavilan** – BACWA has provided a spreadsheet listing all of the Gavilan students and their contact information.
 - ii. **Solano** - Solano has a student database for all BACWWE past students and their contact information. They will use this to outreach to previous students to notify them of the Fall class offerings.
- c. **How to enroll** – Dr. Williams walked through the process of registering in the Solano program. It consists of establishing a Contra Community College ID and then going to the BACWWE web site and enrolling. This process will be set forth in a communique that Solano will develop for outreach to the previous Gavilan program participants.
- d. **Tracking and sharing enrollment numbers as students sign-up** - This item was not specifically discussed but can be followed up via email communication.

5. Further Out Reach Needed to Gavilan Students Regarding Transfer of Credits: Dr. Williams indicated that Solano would provide credit to any Gavilan student that passed coursework at the Gavilan program. The students simply need to show Solano that they passed the course.

BACWA provided a listing of all of the students who had taken courses at Gavilan. Monte and Jordan agreed to contact those students and let them know that the Solano program was offering courses and that they could get credit for the courses they took at Gavilan. Dr. Williams will follow-up with a communique to each of the Gavilan students that informs them on how to enroll in the Solano program and to get credit for courses they took at Gavilan.

The need for an assessment test was discussed. It was agreed by BACWWE that the Solano math assessment test would be waived if a student from the Gavilan program had successfully passed the Wastewater Treatment I course.

Jordan noted that he had taught the Gavilan class on Introduction to Water and Wastewater and that no math was required for the class. When he teaches class 107 in the Fall he will need to work with the students to help ensure they are proficient in math or perhaps would need to take the assessment test.

6. Parking Lot Issues: It was suggested that two more items be added to the list below of Parking Lot issues. These two additions are 1. The need for holding a practice assessment test; 2. The need to substitute Gavilan course 101 for another 3 unit course in the program. Other Parking Lot issues previously identified are listed below and will be on the agenda for the general membership meeting.

- a. Longer term schedule of class offerings
- b. Modifications to requirements for certificate and AA degree (BACWWE subgroup)
- c. Expansion of the BACWWE membership to other Bay Area water and wastewater agencies
- d. Review of the original Charter for BACWWE to ensure it is still up to date
- e. Future dues structure
- f. Design of a more robust outreach program to attract students into the program.

7. Possible Dates and Venue for Next Membership Meeting: Jim Smith stated that he will be retiring in early August. Roberto Cortez will be taking his place as the EBMUD sponsor representative. Jim offered to check on the use of the EBMUD Orinda Watershed Headquarters for a late July or early August BACWWE general membership meeting.

8. Summary of Action Items and Next Steps

Action 1: Provide BACWA a link for use on the BACWA and sponsoring agencies web sites (**Dr. Williams**).

Action 2: Initial contact of Gavilan students to inform them of the Solano program where they can continue their education (**Monte and Jordan**).

Action 3: Follow-up communique from Solano to the Gavilan students informing them of how to enroll in the Solano program and ability to get credits for courses already taken (**Dr. Williams**).

Action 4: Establish the date and venue for the next general membership meeting (**Dave and Jim**).

9. **Next Executive Committee Conference Call:** It was agreed that the group would try to handle additional needed preparatory work for the Fall Semester via emails, but if a follow-on conference call was needed, BACWA would set it up.

Sherry Hull

From: Sherry Hull
Sent: Tuesday, July 18, 2017 3:40 PM
To: Sherry Hull
Subject: Manager's Roundtable: Summary Manager's Roundtable meeting

From: David Williams
Sent: Wednesday, June 28, 2017 5:07 PM
To: Roger Bailey <rbailey@centralsan.org>; 'White, Eileen' <eileen.white@ebmud.com>; Jason Warner <jwarner@oroloma.org>; 'Chad Daviisson' <davisson@isd.us.com>; 'Greg Baatrup' <GBaatrup@fssd.com>; Dan McIntyre (<mcintyre@dsrsd.com>) <mcintyre@dsrsd.com>; 'Paul Eldredge' <paule@unionsanitary.ca.gov>; alex.ameri@hayward-ca.gov
Cc: shull@bacwa.org; Lorien Fono (<lfono@bacwa.org>) <lfono@bacwa.org>
Subject: Summary Manager's Rountable meeting

Thanks for your participation at our meeting last week. As the first meeting as a BACWA Committee, it was good to establish some meeting protocols and guidelines for future meetings. The following is what I recorded as the consensus of the group:

1. Starting out we would establish a quarterly meeting frequency and adjust as needed going forward based on interest and attendance.
2. A set meeting date is desirable to allow managers to get the meeting on their calendars. No day is perfect but the first Friday of the quarter seemed to be a good starting point. BACWA staff will send out a Doodle Poll to assist in establishing the next several meeting dates.
3. Mid-day seems to work best as it helps folks travelling to the meeting to avoid rush hour traffic. A meeting time of 10:00 am to 12:30 pm would be the standard meeting time.
4. The group favored a rotating meeting venue. Several agencies have already offered their facilities for a meeting.
5. The majority favored the invitations being sent only to the General Managers of single purpose wastewater agencies and to the Director level overseeing wastewater activities at multi-purpose agencies (i.e. water and wastewater etc.) or general purpose governmental organizations (i.e. cities and counties)
6. All wastewater entities within the jurisdiction of the Region 2 Water Board are currently BACWA members. Given the benefit of information sharing common to wastewater management, you do not need to be within that jurisdiction in order to attend the meetings.
7. There may be some topics that could warrant non-wastewater participation (such as a GM from a water agency) but in general the invitees will only be the wastewater managers.
8. If the main invitee cannot make the meeting, the group favored not sending an alternate.
9. An invitee can bring a subject matter expert or second in command if they have an agenda item that warrants staff assistance but in general only the invitee is anticipated to attend the meeting.
10. The meetings are intended to be high level discussions amongst managers on key topics and issues and are generally considered confidential.
11. Suggested standing agenda items include the following issues: Labor; Financial; a Hot Topics category; Suggestions for Future Agenda Items; and confirming the date and venue for the next meeting
12. If the meeting is held at a wastewater facility, a brief tour (< 1 hour) following the meeting may be appropriate.

13. Due to the generally poor quality of audio call-in equipment, the benefit of face-to-face discussion, and the need for critical mass attendance, phone participation can be provided but is not encouraged.

Given there will be a bit more structure to the meetings going forward the group favored an adaptive management approach to modifying the Protocols and Guidelines as needed in order to best meet the needs of the Bay Area Managers. Key Decisions and Next Steps agreed upon will be recorded but in accordance of the free-form and generally confidential nature of the discussions, meeting minutes will not be recorded.

Let me know if I have accurately captured the agreements from the meeting and if you have any modifications. The next step will be to send out the Doodle Poll for future meetings. This poll will go to all of the GMs and Directors of wastewater utilities in the Bay Area.

Look forward to future meetings of the group as I feel these provide a valuable forum for sharing of information.

David R. Williams
Executive Director
Bay Area Clean Water Agencies (BACWA)
Cell: 925-765-9616
Email: dwilliams@bacwa.org

Laboratory Committee – Report to BACWA Board

Laboratory committee meeting on: 12 July 2017
Executive Board Meeting Date: July 2017
Committee Chair: Nirmela Arsem

Committee Request for Board Action: None

ELAP and TNI Updates

Outline of proposed regulation:

- ELAP published an outline of preliminary draft regulations on July 11. These regulations are aimed at officially implementing TNI 2016 as the standard for ELAP. The two exceptions allowed are:
 - Technical manager qualifications will reflect current ELAP standards and not TNI
 - Proficiency Testing (PT) frequency will be once a year rather than twice a year as stated in TNI
- The document was not specific enough to develop comments. Once the draft regulations are published the lab committee will prepare comments.
- One observation by members was that the proposal has language to the effect that a lab director cannot be away from work more than 35 days. This is contrary to other regulations that allow medical leave, maternity leave, etc. Lab committee will watch the outcome on this aspect.

ELAP Fee Proposal

- ELAP created a 14-member committee (four are from ELTAC) to advise on how labs should share the cost of ELAP budget of \$3.4 million. Several proposals were submitted by CVCWA, CASA and ACWA among others. ELAP came back with the statement that now their budget is \$4.1 million. There has not been resolution; the only certainty is that fees are increasing.

Third Party Auditors

- ELAP sent out an announcement that it has hired the consultant NV5/Dade Moeller to train their staff and conduct audits. Of note – Mitzi Miller, who was part of the Expert Review Panel that recommended adopting TNI standards in California, is a vice president in this company.

Agency Audits

- Palo Alto had a one day NPDES audit. The auditors focused on sampling SOPs, Org chart, CWEA certification of analysts and training records.
- City of Mill Valley was also audited and the auditors had similar requests. A month's worth of laboratory records for solids analysis data was requested for review after the site audit.
- City of San Leandro is scheduled for an aquatic toxicology audit by ELAP.

On-line Chlorine Monitoring and Detection Limit

- An informal survey among attendees indicated that they rely on excess NaHSO₃ as the indication of complete de-chlorination; no one present conducts detection limit studies. One person volunteered to participate in a study if BACWA were to convene a work group.
- Most of those present, as lab staff, are not involved in on-line plant instrumentation, which is typically maintained and calibrated by operators.

Recognition:

- Guy Moi (USD) announced his retirement effective 14th of July after 37 years in the environmental laboratory industry. A small celebration followed to acknowledge his many years of contribution to BACWA lab committee.

Upcoming meetings, conferences, etc.:

- Forum on Environmental Accreditation, August 7-11, Washington, DC
- WEFTEC, September 30 – October 4, Chicago, IL
- BACWA toxicity workshop – September 18, 10:00 am to 2:00 pm at CCCSD

The next lab committee meeting will be on September 13

There will be no meeting in August.

Permits Committee – Report to BACWA Board

Permits Committee Meetings on: 7/11/17
Executive Board Meeting Date: 7/21/17
Committee Chair: Chris Dembiczak

Committee Request for Board Action: None

Regional Water Board Staff in attendance

24 Participants representing 14 member agencies

Regional Water Board Report-out

Language in attachment G will be overhauled to account for the electronic reporting rule and several other changes that have accumulated over the years.

The Regional Board reminded dischargers who blend that justification must be provided during permit reissuances. Blending is a form of bypass, and agencies need to prove that there are no feasible alternatives – that they have done everything feasible to avoid bypass. A blending provision is put into permits for agencies who blend routinely, rather than just in extreme wet weather conditions.

Patrick Karinja has been hired as a new permit writer.

Richard Looker just got back from vacation and will begin working on the chlorine residual Basin Plan amendment.

The Regional Water Board is beginning to work on the next mercury/PCB Watershed permit, which they expect will look similar to the current one.

Upcoming Permits

July – North San Mateo County Sanitary District – no issues

September – Rodeo Sanitary District – They have had a few toxicity hits of greater than 40 TUC using *Ceriodaphnia*. They suspect the cause may be pesticides. They updated their dilution model and were given 75:1 dilution, so their limits are a MDEL of 140 TUC, and an AMEL of 51 TUC.

Nutrient Trading Framework Presentation

Yuyun Shang of EBMUD provided a presentation on the project looking at sidestream treatment, and a nutrient trading framework for the San Francisco Bay. This work was funded by a grant from the EPA. Further sidestream testing is needed, even with technologies that are well established for mainstream treatment due to the higher strength of the feedwater. The final report is [here](#). See also the [paper](#) that the team prepared on the Nutrient Trading Framework.

Nutrients

- a) *HABs Workshop Report-out* – The workshop highlighted research showing that HABs are a concern, but that there is still the question of what conditions lead to HABs and the release of toxins. No relationship was found between chlorophyll and toxins.
- b) *June 7 Optimization and Upgrade Workshop* – materials are available [online](#).
- c) *Progress update* – BACWA submitted the [Progress update](#) to the Regional Water Board in compliance with the Watershed permit.
- d) *Annual report -Data worksheet* from each agency for Group Annual Report is due July 31
- e) *Watershed permit reissuance* – BACWA is continuing discussions with its members and the Regional Water Board. The current understanding is that the next permit will include an increase in funding for the science in lieu of load caps. Both EPA and the Regional Water Board will provide documentation of this understanding. BACWA will also ramp up funding for the science in the remaining two years of the permit out of its reserves. There is a continuing discussion about how agencies can get credit for early action. There was a question in committee about whether the delisting of the Petaluma River for nutrients can exempt Petaluma from the permit, but the Regional Water Board's position is that Petaluma may have less of an impact but must still be considered.

Toxicity

- a. *State Toxicity Provisions* - Bill Johnson has been meeting with the State Water Board to discuss Regional Water Board concerns about the latest draft of the provisions, and how they would be difficult to write into NPDES permits. The Regional Water Board would like more discretion on how to implement the Provisions. CASA also met with State Water Board staff who seem less open to changes than they did at the previous meeting.

- b. *Toxicity Workshop* - BACWA will hold a toxicity workshop at CCCSD September 18. See [draft agenda](#). The workshop will be aimed at agency staff with a wide range of expertise in toxicity testing.

BAAQMD Rule 11-18

- a. BAAQMD has moved all POTWs moved to Phase 2, which will give agencies a chance to update emissions factors and do health risk assessments ([See letter](#))
- b. BACWA members are being asked to provide nearest distance from source to offsite worker and resident receptors to [Sarah Deslauriers](#). This information will be used by BAAQMD to update proximity adjustment factors for each facility. A formal data request will be sent out soon.

Announcements

- a. State Water Board adopts [Beneficial Uses and Mercury Objectives](#). It is unclear whether this will have much of an impact on how POTWs are regulated.
- b. ELAP workshop scheduled for August 3 in San Francisco
- c. [Dental Amalgam Rule finalized](#). POTWs will need to receive certification forms from dental facilities, but will not be responsible for enforcement.

Next BACWA Permits Committee Meeting: Tuesday August 8 1-3pm, EBMUD.

Committee Request for Board Action: Submit BACWA response to criteria survey

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

16 attendees (including 6 on phone) representing 7 member agencies

Bay Area Regional Reliability (BARR) Drought Contingency Plan

BARR has prepared a [Draft Drought Contingency Plan](#). One of actions is to develop a Regional Water Market Transfer Program. DSRSD and Roger Bailey, who is BACWA's representative to BARR, both commented that recycled water should be a part of this program, and has been underrepresented in discussions. BARR hosts a stakeholder group, more than 50% of which is made up of environmental groups. BACWA is only representative of wastewater agencies. The draft report was submitted to the Bureau of Reclamation on June 30.

Recycled Water General Order 2016

At this time the Regional Water Board is not making plans for a transition of all 96-011 permittees to the State General Order. DSRSD is expanding the capacity of its wastewater treatment plant and going through discussions with the Regional Water Board, who is asking for update of engineering report based on 96-011, not the State General Order. Palo Alto will need to go through this process as well, although they have an individual permit and are not covered under 96-011. Hayward will apply for coverage under the State General Order. To address the Salt/Nutrient Management requirements, they wrote up how they were working with EBMUD to protect groundwater under the Sustainable Groundwater Management Act. SFPUC just submitted their engineering report under the State General Order for their Westside recycled water project.

CWSRF Workshop

The State Water Board held a workshop at EBMUD on Thursday, July 13 to discuss the future funding processes for the CWSRF, which is used to finance wastewater and recycled water projects ([See presentation](#)). There are a lot of agencies competing for a small pot of funds. They did not respond to BACWA's [comments](#) on recommended priorities. However, the State Water Board have circulated a survey asking for feedback on proposed scoring criteria (see packet). The clean water SRF is the only available State funding source at the present time, so recycled water funding needs need to be balanced with other wastewater programs. Having readiness to proceed as a top criterion will de facto prioritize recycled water projects.

The Recycled Water Committee is requesting that BACWA submit a survey response for funding criteria (see Executive Board Handout). The survey needs to be submitted by 8/4/2017 to cheng.vue@waterboards.ca.gov.

AB574

AB 574 (Quirk) seeks to update the definition of potable reuse to four specific types and do away with the terms "direct potable reuse" and "indirect potable reuse." This bill would require State Water Board to establish a framework for regulating potable reuse projects by June 2019 and adopt criteria for regulating potable reuse through raw water augmentation by December 2021. The bill has passed through the Assembly and is now in the State Senate. AB 574 passed the Senate Environmental Quality Committee. It is scheduled to go next to the Natural Resources Committee, but WaterReuse is working with others to amend the bill to avoid the need for Resources Committee. It will also go to the Senate Finance Committee.

Next Meeting – September 19 from 10:30 am to 12:30 pm. The meeting will feature an update on SCVWD's RO concentrate management project.

Executive Director's June 2017 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 the 13th meeting of the NMS Steering Committee and provided BACWA in-kind services by serving as scribe. Following the meeting prepared detailed meeting minutes and summary of action items.
- Coordinated with the OP/Upgrade consulting team on administrative issues.
- Provided updates to the WB staff on the progress on reaching consensus on an approach to the 2nd Watershed Permit.
- Coordinated with the NMS Science Manager on presentations, meetings, and key issues on nutrients.
- Attended the Nutrient Optimization/Upgrade Workshop and presented an update to the membership on the 2nd Watershed Permit.
- Organized and participated in a Nutrient Strategy Team meeting conference call to discuss approaches for negotiating the 2nd Watershed Permit.
- Attended the WEF Nutrient Symposium where the latest in nutrient technology research was presented.

BACWA BOARD MEETING AND CONFERENCES:

- Worked with staff in preparing for the June BACWA Board meeting including reviewing the agenda with the Board Vice Chair.
- Continuing to track all action items to completion.
- Planned for and attended the June monthly Board Meeting.

ASC/SFEI:

- As the Chair of the Governance Committee convened a meeting to discuss new approaches to enhancing funding for SFEI
- Discussed future fund raising effort with the Executive Director of SFEI..
- Attended the quarterly Board meeting of ASC/SFEI

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 17 member invoices.
- Met with the EBMUD accounting and finance groups to discuss future investments of BACWA funds and the upcoming end of year close out of the books.

PERMIT COMMITTEE:

- Coordinated with the RPM for items to agendize for the Permit Committee review.

MANAGER'S ROUNDTABLE:

- Coordinated the Manager's Roundtable meeting as a new committee within BACWA

-Held the first meeting where protocols and guidelines for the functioning of the committee were established.

COLLABORATIONS:

- Serving as a member of the CASA Nomination Committee for new Board members which resulted in a slate of new Board members being proposed for CASA to be confirmed at the August Annual meeting.
- Coordinated with CASA Regulatory Program Manager on regulator issues of mutual concern.
- At the request of B&V consultants, met to discuss the future of nutrient in the Bay Area.

AIR COMMITTEE:

- Coordinated with the AIR Committee leadership on responding to proposed regulations on health risk assessments.
- Participated in a meeting with BAAQMD on technical aspects of Rule 11-18 implementation.
- Attended the Annual Meeting with the BAAQMD to discuss all air regulations and provide input on impacts to the POTW community and possible approaches to meeting regulatory requirements.

WOT

- Participated in conference calls to help the BACWWE group reorganize after the departure of the chair of WOT.
- Discussed future of program with Director of the BACCWE

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.

MISCELLANEOUS MEETINGS/CALLS:

- Paul Gilbert Snyder on Prop 84 and the close-out of :Prop 50.
- 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 members requests for information



BACWA ACTION ITEMS

Number	Subject	Task	Deadline	Status
Action Items from June 16, 2017 BACWA Executive Board Meeting				
2017.6-76	Meeting with San Mateo	Set meeting with Sarah Scheidt and invite Karin and Bhavani (ED)	7/21/2017	Completed
2017.6-75	Basin Plan Amendment for Chlorine Residual	Execute Agreement with EOA (Tom Hall) ED/AED	6/23/2017	Completed
2017.6-74	Letter of Intent from Water Board	Incorporate changes suggested by Executive Board (ED)	6/23/2017	Completed
2017.6-73	Opt/Upgrade	Submit Progress Report Letter (ED)	7/1/2017	Completed
2017.5-67	Dissolved Oxygen	Invite Andy Gunther to speak to Board on Climate Change (ED)	6/2/2017	Completed
Action Items Remaining from Previous BACWA Executive Board Meetings				
2016.3-61	Membership Policy	Develop policy for out of region agency membership (ED)	6/30/2017	Pending

FY17: 26 of 26 Action Items completed.

FY 16: 96 of 97 Action Items completed.



DATE	AGENDA
<p>8/18/2017</p> <p>Monthly Board Mtg Items due: 8/11 Pagano; Ervin; Connor; White; Schectel Williams; Fono; Hull</p>	<p><u>Consent</u> Previous Board Meeting Minutes (AED) Monthly Financial Report</p> <p><u>Authorizations & Approvals</u></p> <p><u>Other Business - POLICY/STRATEGIC</u> Discussion: HDR Quarterly Update on Optimization/ Upgrade studies Discussion: Draft Agenda & Schedule Pre & Pardee Technical Seminar Discussion: Water Board/BACWA Joint Meeting DRAFT Agenda (8/30/17) Discussion: RMP & NMS Update (Phil Trowbridge/David Senn) Discussion: Risk Reduction Update Discussion: Pesticides Update (Kelly Moran) Discussion: N control through source separation (Kara Nelson)</p> <p><u>Other Business - OPERATIONAL</u> Discussion: Biosolids Survey</p> <p><u>Reports</u> Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM) Other BACWA Representative Reports</p>
<p>8/30/2017</p> <p>Joint Meeting - Water Board Items due: Pagano; Ervin; Connor; White; Schectel Williams; Fono</p>	<p><u>Other Business: Discussions</u></p>
<p>9/15/2017</p> <p>Monthly Board Mtg Items due: 9/8 Pagano; Ervin; Connor; White; Schectel Williams; Fono; Hull</p>	<p><u>Consent</u> Previous Board Meeting Minutes (AED) Monthly Financial Report</p> <p><u>Authorizations & Approvals</u> Approval:</p> <p><u>Other Business - POLICY/STRATEGIC</u> Discussion: Draft Agenda Pardee Technical Seminar Discussion: Annual Meeting Planning</p> <p><u>Other Business - OPERATIONAL</u></p> <p><u>Reports</u> Committee Reports (Committee Chairs)</p>

Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Other BACWA Representative Reports

9/15/2017

Pre-Pardee Mtg

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

10/26-27/2017

Pardee Technical Seminar

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

11/17/2017 **Consent**

Monthly Board Mtg

Items due: 11/10

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)
Monthly Financial Report

Authorizations & Approvals

Approval: Adoption of FY16 Annual Reports

Approval: Review next Calendar Year meeting dates

Other Business - POLICY/STRATEGIC

Discussion: Pardee Debrief & Survey

Other Business - OPERATIONAL

Discussion: Annual Meeting Planning

Discussion: Biannual Update on CASA Climate Change Prog (SDeslauriers)

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Other BACWA Representative Reports

12/15/2017 **Consent**

Monthly Board Mtg

Items due: 12/8

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

HOLIDAY LUNCH

Previous Board Meeting Minutes (AED)
Monthly Financial Report

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Joint Meeting with WB

Other Business - OPERATIONAL

Discussion: Annual Meeting Agenda

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Other BACWA Representative Reports

12/?/2017

Joint Meeting - Water Board

Other Business: Discussions

Items due:

SNMP

Pagano; Ervin; Connor; White; Schectel

Williams; Fono

1/?/2018

Annual Members Mtg

Pagano; Ervin; Connor; White; Schectel

RMP & NMS Update (Phil Trowbridge/David Senn)

Williams; Fono; Hull

2/16/2018 **Consent**

Monthly Board Mtg

Items due: 2/9

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Financial Report

Authorizations & Approvals

Approval:

Other Business - POLICY/STRATEGIC

Discussion: WB Joint Meeting Debrief

Discussion: Draft Agenda Joint Meeting with WB

Other Business - OPERATIONAL

Discussion: FY2019 Budget Planning - 1st Draft of FY19 Budget

Discussion: Annual Meeting Debrief

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

Other BACWA Representative Reports

3/?/2017

Joint Meeting

Other Business: Discussions

Items due: 3/?

Pagano; Ervin; Connor; White; Schectel

Williams; Fono

3/16/2017 **Consent**

Monthly Board Mtg

Items due: 3/9

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Financial Report

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: WB Joint Meeting Debrief

Presentation: CPSC Update (Heidi Sanborn)

Other Business - OPERATIONAL

Discussion: Second Draft of FY19 Budget

Discussion: Update on BARR Taskforce

Discussion: Update on regional and statewide biosolids issues

Discussion: Biannual Update on CWCCG (SDeslauriers)

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Other BACWA Representative Reports

4/20/2017 **Consent**

Monthly Board Mtg

Items due: 4/13

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)
Monthly Financial Report

Authorizations & Approvals

Approval: FY19 Budget

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Joint Meeting with WB

Other Business - OPERATIONAL

Discussion: Update on BAAQMD Regulations
Discussion: Update on regional and statewide biosolids issues
Discussion: CASA Climate Change Program

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Other BACWA Representative Reports

5/?/2018

Joint Meeting - Water Board

Items due: 5/?

Pagano; Ervin; Connor; White; Schectel

Williams; Fono

Other Business: Discussions

5/18/2018 **Consent**

Monthly Board Mtg

Items due: 5/11

Pagano; Ervin; Connor; White; Schectel

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)
Monthly Financial Report

Authorizations & Approvals

Approval: FY18 Consulting Amendments/Agreements
Approval: Officers: Chair & Vice-Chair
Approval: BACWA Reps to ASC/SFEI Governing Board
Authorization: Legal Support Amendments

Other Business - POLICY/STRATEGIC

Discussion: Water Board Jt Mtg Debrief

Other Business - OPERATIONAL

Reports

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

RPM Report (RPM)
Other BACWA Representative Reports

6/?/2018

Nutrient Optimization/Upgrade Workshop #3

Pagano; Ervin; Connor; White; Schectel Optimization/Upgrade Studies
Williams; Fono Water Board

6/15/2018 **Consent**

Monthly Board Mtg

Items due: 6/8

Pagano; Ervin; Connor; White; Schectel
Williams; Fono; Hull

Previous Board Meeting Minutes (AED)
Monthly Financial Report

Authorizations & Approvals

Approval: FY19 Agreements
Approval: Appt BACWA Rep to ASC/SFEI Jt Board

Other Business - POLICY/STRATEGIC

Discussion: Opt/Upgrade Workshop Debrief
Discussion: Draft Agenda WB Joint Meeting

Other Business - OPERATIONAL

Discussion: CPSC Update
Discussion: BAAWMD Annual Meeting Draft Agenda
Discussion: 2019 BACWA Executive Board Calendar

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Other BACWA Representative Reports

7/20/2018 **Consent**

Monthly Board Mtg

Items due: 7/13

Pagano; Ervin; Connor; White; Schectel
Williams; Fono; Hull

Previous Board Meeting Minutes (AED)
Monthly Financial Report

Authorizations & Approvals

Approval: Annual Nutrient WS Payment
Approval: FY18 Agreements

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Pre-Pardee Technical Seminar
Discussion: Risk Reduction Update?
Discussion:

Other Business - OPERATIONAL

Discussion:

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Other BACWA Representative Reports

CURRENTLY

***UNSCHEDULED
& SIGNIFICANT***

* Suggestions for Monthly Meeting Guest Speakers/Presenters: i.e. Jim McGrath, State Water Board



Regulatory Program Manager's Report to the Board

June 2017

NUTRIENT SUPPORT: Attended Optimization/Upgrade Studies workshop and drafted summary. Participated in Nutrient Strategy Team conference call. Distributed information about data sheet for Group Annual Nutrient Report to members. Reviewed SFEI contract expiring June 30 to approve reallocation of funds. Drafted progress update letter to Regional Water Board.

BACWA BULLETIN: Completed and distributed June Bulletin. Drafted July Bulletin.

TOXICITY: Developed draft agenda for Toxicity Workshop and contacted potential speakers. Contacted consultant for Rodeo SD about potential chronic toxicity limits.

CECs: Reviewed RO Concentrate study request for funding to State Water Board. Attended meeting on RO concentrated management at Santa Clara Valley Water District.

COLLABORATIONS: Participated in CASA Regulatory Workgroup conference call and gave Regional Association Update for BACWA.

MERCURY/PCBs: Prepared BAR for CIEA contract extension for risk reduction work.

COMMITTEE SUPPORT:

AIR – Reviewed consultants' progress reports and invoices. Called into 6/1 meeting with BAAQMD on Rule 11-18. Prepared support for 6/22 Annual BACWA meeting with BAAQMD and reviewed summary and action items.

BAPPG – Prepared slides on baywise upgrade for meeting. Drafted meeting notes and board report. Worked with Computer Courage to relaunch baywise.org.

Biosolids – Began drafting report on biosolids survey.

Collection Systems – Drafted Board report. Put together list of committee attendees since 2014. Updated sewer rate survey data.

Manager's Roundtable: Prepared regulatory slides for meeting.

O&M Infoshare – Drafted Board report.

Permits – Drafted agenda.

Recycled Water – Drafted meeting notes.

Executive Board – Assisted in preparing agenda and packet, and attended 6/16 Executive Board meeting. Edited meeting minutes for May and June Executive Board meetings.

Staff Meeting – Discussed BACWA administration and planned Executive Board meeting. Prepared self-evaluation and performance report.

MEETINGS ATTENDED: BAAQMD meeting on Rule 11-18, call-in (6/1), Staff meeting (6/6), Optimization/Upgrade Workshop (6/7), CASA RWG Conference Call (6/8), Nutrient Strategy Team Conference Call (6/12), RO Concentrate meeting (6/14), Executive Board meeting (6/16).

SWRCB Nutrient SAG LINKS

Science Panel Report

<https://bacwa.org/document/science-panel-report/>

July 26, 2017 Biostimulatory & Biointegrity SAG Meeting Agenda

<https://bacwa.org/document/7-26-17-biostimulatory-biointegrity-sag-meeting-agenda/>

ASCI Webinar

<https://bacwa.org/document/asci-webinar/>

Biostimulatory/Biointegrity Watershed Approach Presentation

<https://bacwa.org/document/biostimulatorybiointegrity-watershed-approach-presentation/>

Watershed & Categorical Approach

<https://bacwa.org/document/watershed-categorical-approach/>