



**Executive Board Meeting
AGENDA**
Friday, November 16, 2018, 9:00 a.m. – 12:30 p.m.
SFPUC, Hetch Hetchy Room, 13th Floor
525 Golden Gate Ave., San Francisco, CA

<u>Agenda Item</u>	<u>Time</u>	<u>Pages</u>
ROLL CALL AND INTRODUCTIONS	9:00 AM	
PUBLIC COMMENT	9:03 AM	
CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER	9:04 AM	
CONSENT CALENDAR	9:05 AM	
1 September 21, 2018 BACWA Executive Board Meeting Minutes		3-5
2 August & September 2018 Treasurer's Reports & Financial Summary		6-22
APPROVALS & AUTHORIZATIONS	9:06 AM	
3 <u>Authorization</u> : ED Authorization to Amend the FY19 HDR Agreement		23-24
4 <u>Approval</u> : Adoption of FY18 Annual Reports		25
	BACWA Annual Report	
	Basic Financial Statements	
	Memorandum on Internal Control	
5 <u>Approval</u> : BACWA Resolution R-19-01, Membership		26-28
6 <u>Approval</u> : BACWA Aquatic Science Center Representative		29
7 <u>Approval</u> : BACWA Nutrient Management Strategy Steering Committee Representative		30
8 <u>Approval</u> : HDR Agreement for Additional Services to Support 2nd Nutrient Watershed Permit Compliance		31-36
OTHER BUSINESS - POLICY/STRATEGIC	9:15 AM	
9 <u>Discussion</u> : Nutrients		
a. Regulatory		
i. Nutrient Strategy Team Future Meeting Schedule		37
ii. Nutrient Strategy Team November Agenda		38-39
b. Governance Structure		
i. Debrief on Nutrient Management Strategy Planning Subcommittee #35		40-43
ii. Debrief on August 17, 2018 Nutrient Strategy Team Meeting		44-45
10 <u>Discussion</u> : Pardee Technical Seminar Debrief & Participant Survey		
	Survey	
11 <u>Discussion</u> : ReNUlt Industrial Advisory Board Meeting Debrief		46-55
12 <u>Discussion</u> : Regional Monitoring Program Update		
13 <u>Discussion</u> : Toxicity Litigation Update		
	Legal Filing	
	EPA Reply	
	Provisions	
14 <u>Discussion</u> : Toxicity Provisions		56-57
15 <u>Discussion</u> : SSS WDR CASA Redlines		
	Final WDR Redlines	
	Final MRP Redlines	
16 <u>Discussion</u> : Strategy To Work with Bay Area Air Quality Management District		58-61
17 <u>Discussion</u> : BACWA Policies & Procedures		62
18 <u>Discussion</u> : Draft Policy on Reserves		63
19 <u>Discussion</u> : Draft Policy on Representation		64
20 <u>Discussion</u> : Draft Agenda Joint Meeting with Water Board Staff		65
21 <u>Discussion</u> : Support for Dual Track Lab Certification		66-70
22 <u>Discussion</u> : Support for San Francisco Estuary Partnership's Grant Proposal on Transforming Shorelines		71-75
OTHER BUSINESS - OPERATIONAL	10:45 AM	
23 <u>Discussion</u> : BACWA Annual Meeting Planning		76-79
24 <u>Discussion</u> : Pardee Technical Seminar Dates in 2019		80
25 <u>Discussion</u> : BACWA Bulletin - Member News Section Pilot		
	CASA Newsletter	
26 <u>Discussion</u> : Exfiltration Workshop		81-86
27 <u>Discussion</u> : Options for Supporting the Bay Area Biosolids Coalition		87-90
28 <u>Discussion</u> : Bay Area Climate Adaptation Network (BayCAN) Launch		
29 <u>Discussion</u> : Bay Area Chemical Consortium		
30 <u>Discussion</u> : Language for Award Plaque		91
31 <u>Discussion</u> : Continued BACWA Support of Federal Water Quality Coalition		
	FWQC Matrix	

REPORTS		12:10 PM	
32	Committee Reports		92-106
33	Member Highlights		
34	Executive Director Report		107-120
35	Regulatory Program Manager Report		121-122
36	Other BACWA Representative Reports		
	a. RMP Technical Committee	Mary Lou Esparza, Nirmela Arsem	
	b. RMP Steering Committee	Karin North; Leah Walker; Eric Dunlavey	
	c. Summit Partners	Dave Williams; Lori Schectel	
	d. ASC/SFEI	Dave Williams; Amit Mutsuddy; Karin North	123
	Packet	Draft Strategic Plan	
	e. Nutrient Management Strategy Governance Steering Committee	Eric Dunlavey; Eileen White; Lori Schectel	
	e.i NMS Planning Subgroup	Eric Dunlavey	
	e.ii NMS Technical Workgroup	Eric Dunlavey	
	f. SWRCB Nutrient SAG	Dave Williams	
	ASCI Webinar	SAG Webinar	
	g. SWRCB Focus Group – Mercury Amendments to the State Plan	Tim Potter; David Williams	
	h. NACWA Taskforce on Dental Amalgam	Tim Potter	
	i. BAIRWMP	Cheryl Munoz; Linda Hu; Dave Williams	124-128
	j. NACWA Emerging Contaminants	Karin North; Melody LaBella	
	k. CASA State Legislative Committee	Lori Schectel	
	l. CASA Regulatory Workgroup	Lorien Fono	
	m.ReNUWIt	Jackie Zipkin; Karin North	
	n. RMP Microplastics Liaison	Nirmela Arsem	
	o. AWT Certification Committee	Maura Bonnarens,	
	p. Bay Area Regional Reliability Project	Eileen White,	
	q. WateReuse Working Group	Cheryl Munoz;	
	r. San Francisco Estuary Partnership	Eileen White; Dave Williams	
	Estuary Blueprint		
	s. CPSC Policy Education Advisory Committee	Coleen Henry	
	t. California Ocean Protection Council	Lorien Fono	
	u. Countywide Water Reuse Master Plan	Karin North	
37 SUGGESTIONS FOR FUTURE AGENDA ITEMS		12:27 PM	
NEXT MEETING		12:28 PM	
The next regular meeting of the Board is scheduled for December 21, 2018 from 9:00 am to 12:30 pm at EBMUD, 2nd Floor Large Training Room, 375 11th Street, Oakland, CA. The BACWA Holiday & Committee Leader Appreciation Lunch will follow at 12:30 pm.			
ADJOURNMENT		12:30 PM	

ROLL CALL AND INTRODUCTIONS

Executive Board Representatives: Lori Schectel (Central Contra Costa Sanitary District); Amit Mutsuddy (San Jose); Brian Henderson (SFPUC); Eileen White (East Bay Municipal Utility District); Jacqueline Zipkin (East Bay Dischargers Authority).

Other Attendees:

<u>Name</u>	<u>Agency/Company</u>
Bhavani Yerrapotu	Sunnyvale
Daniela Brandao	Representing San Mateo
Dave Richardson	RMC
Eric Dunlavey	San Jose
Greg Baatrup	Fairfield Suisun
Holly Kennedy	HDR
Leah Walker	City of Petaluma
Maura Bonnarens	EBMUD
Mike Falk	HDR
Roya Joseph	Black & Veatch
Tom Hall	EOA, Inc.
Yu Yun Shang	EBMUD
Robert Wilson	City of Petaluma
Mallika Ramanathan	Brown & Caldwell
David Williams	BACWA
Lorien Fono	BACWA
Sherry Hull	BACWA

PUBLIC COMMENT

None.

CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER – None.

CONSENT CALENDAR

1. August 17, 2018 BACWA Executive Board Meeting Minutes – The approved minutes will be posted on the BACWA website.

2. July 2018 Treasurer’s Reports and Financial Summary – A Financial Summary Report was included in the Packet. A copy of the FY18 Budget as of July 31, 2018, (8% 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, a report on BACWA liquidity is also provided.

Consent Calendar items 1 and 2: A motion to approve was made by Jacqueline Zipkin and seconded by Eileen White. The motion was approved unanimously.

APPROVALS & AUTHORIZATIONS

3. Approval: California Indian Environmental Alliance Risk Reduction Agreement FY19 – A Board Action Request, Proposal, and Agreement were included in the Packet. The Executive Director noted that an agreement with APA Family Support Services was approved at the August Executive Board meeting.

Item 3: A motion to approve was made by Eileen White and seconded by Brian Henderson. The motion was approved unanimously.

4. Approval: UC Merced Research on Biosolids in Soil Health & Climate Change Mitigation – A Board Action Request, Proposal, and Agreement were included in the Packet. The Executive Director noted that while the Board had previously directed the Executive Director to negotiate and sign an agreement, there were many changes to the standard BACWA Agreement that he felt required another review by the Board.

Item 4: A motion to approve was made by Eileen White and seconded by Brian Henderson. The motion was approved unanimously.

OTHER BUSINESS-POLICY/STRATEGIC

Agenda **Item 5** - Discussion: Regional Water Board/BACWA Joint Meeting Debrief 8/23/18 – A Summary of the meeting was included in the Packet. The Executive Director gave an overview and noted the key issues.

Agenda **Item 6** - Discussion: Pardee Technical Seminar Draft Program 9/21/18– A Draft Program for the October 25-26, 2018 Seminar, was included in the Packet. The Executive Director noted that the Board would be asked for feedback during the Pre-Pardee Seminar.

Agenda **Item 7** – Discussion: UC Berkeley Nutrient Research Results – A [LINK](#) to the research results was included in the Packet. The Executive Director gave an overview.

REPORTS

Agenda **Item 8** - The **Executive Director's (ED) Report** for August 2018, along with the Board Calendar, and BACWA Action Items, were included in the Packet. It was noted that 22 of 24 action items from FY19 have been completed.

Agenda **Item 9** - The **Regulatory Program Manager (RPM) Report** for August 2018 was included in the Packet.

Agenda **Item 10 - SUGGESTIONS FOR FUTURE AGENDA ITEMS**. The Board suggested several items:

1. Consider integrating the Bay Area Chemical Consortium into BACWA.
 - a. It was noted that there is also a North Bay Chemical Consortium.
2. Revisit the Bay Area Climate Adaptation Network (BayCAN) Launch.

ANNOUNCEMENTS:

The next regular meeting of the Board is scheduled for **November 16, 2018 from 9:00 am to 12:30 pm** at the **SFPUC, 13th Floor, Hetch Hetchy Room, 525 Golden Gate Ave., San Francisco, CA**. The **Annual BACWA Technical Seminar** is scheduled for **October 25-26, 2018 at the EBMUD Pardee Facility**.

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 8:54 am.



MONTHLY FINANCIAL SUMMARY REPORT September 2018

Fund Balances

In FY 19 BACWA has three operating funds (BACWA, Legal, and CBC) and two pass-through funds for which BACWA provides only contract administration services (WOT & Prop 84).

BACWA Fund: This fund provides the resources for BACWA staff, its committees, and other administrative needs. The ending fund balance on September 30, 2018 was \$1,735,288 which is significantly higher than the target reserve of \$160,000 which is intended to cover 3 months of normal operating expenses. \$486,220 of the ending fund balance is shown on the September Fund & Investments Balance Report as 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 actual unobligated excess fund balance of \$1,249,068 as of September 30, 2018. 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 September 30, 2018 was \$2,010,019 which is significantly higher than the target reserve of \$400,000. \$190,248 of the ending balance is obligated to meet line item expenses for completion of the Optimization/Upgrade Studies contract, the Chlorine Residual BPA work, and for technical support. This leaves an actual unobligated excess fund balance of \$1,819,771 as of September 30, 2018. Total Disbursements for FY19 from the CBC Fund include the Nutrient Voluntary Contribution of \$200,000 and the Nutrient Watershed Permit payment of \$880,000. 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 September 30, 2018 (25% of the FY) are at 88.62% due primarily to timing of invoices, and to timing of interest received. The FY19 BACWA invoices were sent at the end of July 2018 and the end of August 2018.

Overall Expenses as of September 30, 2018 (25% of the FY) are at 59% due to the timing of the Nutrient Surcharge contributions required by the Nutrient Watershed Permit and voluntary contributions to support additional science.



MONTHLY FINANCIAL SUMMARY REPORT
September 2018

Those needing additional explanation (i.e. either 10% over or under budget) are:

Administration: This category is 7.79% expended at 25% of the FY due to the timing of Audit Services invoices.

Communication: This category is 14% expended at 25% of the FY due primarily to timing of invoices.

Legal: This category is 0% expended at 25% of the FY due to no need for legal support to date.

Committees: This category is 14% expended at 25% of the FY due to timing of invoices.

Collaboratives: This category is 0% expended at 25% of the FY due to timing of invoices.

Technical Support: This category is 84% expended at 25% of the FY due to the timing of the Nutrient Contributions.

NOTE: One Alternative Investment holding matured in May, 2018 in the amount of \$140,000. Another holding matured in October, 2018 in the amount of \$165,000. Based on information about interest rates and size of holdings obtained from the Investment division of EBMUD, staff recommended that the \$140,000 be kept in cash until October when the entire \$300,000 could be invested in a 3-year maturity. Currently EBMUD's Investment Department is working on investing the \$300,000 in a 3-year maturity.



25% of
Budget

<u>BACWA FY19 BUDGET</u>	<u>Line Item Description</u>	<u>FY 2019 Budget</u>	<u>Actuals Sept. 2018</u>	<u>Actual % of Budget Sept 2018</u>	<u>Variance</u>	<u>NOTES</u>
REVENUES & FUNDING						
Dues	Principals' Contributions	\$496,837	\$496,835	100.00%	-\$2	FY19: 2% increase.
	Associate & Affiliate Contributions	\$182,144	\$120,661	66.24%	-\$61,483	FY19: 2% increase. Assoc: \$8,090; Affiliate: \$1,600 (\$197 over budget)
Fees	Clean Bay Collaborative	\$675,000	\$578,822	85.75%	-\$96,178	Prin: \$450,000; Assoc/Affil: \$225,000
	Nutrient Surcharge	\$800,000	\$690,053	86.26%	-\$109,947	Prin: \$533,335; Assoc/Affil: \$266,673
	Voluntary Nutrient Contributions	\$0	\$0		\$0	
Other Receipts	AIR Non-Member	\$6,800	\$0	0.00%	-\$6,800	5% increase (Santa Rosa)
	BAPPG Non-Members	\$3,800	\$1,267	33.34%	-\$2,533	2% increase (Sta Rosa, Sac Reg'l, Vacaville)
	Other	\$0	\$50,000		\$50,000	Biosolids & Climate Change Research in Agricultural Soils Project
Fund Transfer	Special Program Admin Fees	\$5,000	\$0	0.00%	-\$5,000	FY19: BACWWE increase in FY19 , may include Prop 84 Admin Fees for FY16, FY17, FY18, FY19 if closed out
Interest Income	LAIF	\$20,000	\$10,829	54.15%	-\$9,171	BACWA, Legal, & CBC Funds invested in LAIF
	Higher Yield Investments	\$9,000	\$0	0.00%	-\$9,000	Alternative Investment Interest (Legal & CBC Funds invested in AltInv)
	Total Revenue	\$2,198,581	\$1,948,467	88.62%	-\$250,114	
BACWA FY18 BUDGET						
<u>BACWA FY18 BUDGET</u>	<u>Line Item Description</u>	<u>FY 2019 Budget</u>	<u>Actuals Sept. 2018</u>	<u>Actual % of Budget Sept 2018</u>	<u>Variance</u>	<u>NOTES</u>
EXPENSES						
Labor						
	Executive Director	\$201,682	\$33,614	16.67%	-\$168,068	2.9% CPI (SF/Oakland/San Jose Metro Area Dec 2017)
	Assistant Executive Director	\$90,526	\$23,446	25.90%	-\$67,080	2.9% CPI (SF/Oakland/San Jose Metro Area Dec 2017)
	Regulatory Program Manager	\$119,815	\$27,078	22.60%	-\$92,737	2.9% CPI (SF/Oakland/San Jose Metro Area Dec 2017)
	Total	\$412,023	\$84,138	20.42%	-\$327,885	
Administration						
	EBMUD Financial Services	\$40,800	\$0	0.00%	-\$40,800	2% increase
	Auditing Services (Maze)	\$6,426	-\$690	-10.74%	-\$7,116	FY19: \$6,300 Accrued from FY18 to FY19, less \$1,870 & \$3,740 paid for FY18
	Administrative Expenses	\$7,650	\$927	12.12%	-\$6,723	Travel, Supplies, Parking, Mileage, Tolls, Misc.
	Insurance	\$4,590	\$4,393	95.71%	-\$197	2% increase
	Total	\$59,466	\$4,630	7.79%	-\$54,836	
Meetings						
	EB Meetings	\$2,550	\$466	18.27%	-\$2,084	2% increase. Catering, Venue, other expenses
	Annual Meeting	\$10,200	\$500	4.90%	-\$9,700	2% increase. Catering, Venue, other expenses. (Deposit to hold venue + deposit to hold caterer)
	Pardee	\$6,120	\$279	4.56%	-\$5,841	2% increase. Catering, Venue, other expenses
	Misc. Meetings	\$5,100	\$3,340	65.49%	-\$1,760	2% increase. Hol & Comm Chair Lunch, Staff Mtgs, Fin Comm, Summit Ptnrs, CASA, NACWA Tech WS, Low Flow WS
	Total	\$23,970	\$4,585	19.13%	-\$19,385	
Communication						
	Website Hosting (Computer Courage)	\$600	\$600	100%	\$0	
	File Storage (Box.net)	\$750	\$0	0%	-\$750	
	Website Development/Maintenance	\$1,500	\$0	0%	-\$1,500	Domains, website changes
	IT Support (As Needed)	\$2,600	\$180	7%	-\$2,420	
	Other Commun (MS, SM, Backup, PollEv)	\$1,500	\$197	13%	-\$1,303	MS Exchange, Survey Monkey, CrashPlanPro, Carbonite, Doodle Polls, PollEv
	Total	\$6,950	\$977	14%	-\$5,973	

FY 2019
BACWA BUDGET

EXPENSES						
Legal						
	Regulatory Support	\$2,601	\$0	0%	-\$2,601	2% increase
	Executive Board Support	\$2,091	\$0	0%	-\$2,091	2% increase
	Total	\$4,692	\$0	0%	-\$4,692	
Committees						
	AIR	\$51,000	\$5,058	10%	-\$45,942	Lunches included in budget but not in Carollo agreement
	BAPPG	\$100,000	\$24,154	24%	-\$75,846	Includes CPSC @ \$10,000 and Pest. Reg Spt. @ \$15,000
	Biosolids Committee	\$3,100	\$206	7%	-\$2,894	Includes WEF Conf
	Collections System	\$1,000	\$0	0%	-\$1,000	
	InfoShare Groups	\$1,200	\$173	14%	-\$1,027	Funds for 2 workgroups (Asset Mgmt & O&M)
	Laboratory Committee	\$6,100	\$0	0%	-\$6,100	Includes Tech Conf. & training funds
	Permits Committee	\$1,000	\$374	37%	-\$626	
	Pretreatment	\$7,500	\$0	0%	-\$7,500	Includes training funds & Factsheet not expended in FY18
	Recycled Water Committee	\$1,000	\$0	0%	-\$1,000	
	Misc Committee Support	\$45,000	\$0	0%	-\$45,000	\$10,000 increase in FY19
	Manager's Roundtable	\$1,000	\$111	11%	-\$889	
	Total	\$217,900	\$30,076	14%	-\$187,824	
Collaboratives						
	Collaboratives					
	State of the Estuary (SFEP-biennial)	\$20,000	\$0	0%	-\$20,000	Biennial in Odd Fiscal Years. (Paid biennially in odd years for even year conference)
	Arleen Navarret Award	\$0	\$0		\$0	Biennial in Even Fiscal Years (FY18 Budgeted Amount will be paid in FY19)
	FWQC (Fred Andes)	\$7,500	\$0	0%	-\$7,500	Dues unchanged in FY19
	Stanford ERC (ReNUWit)	\$10,000	\$0	0%	-\$10,000	
	Misc	\$5,000	\$0	0%	-\$5,000	\$2,000 increase in FY19 (North Bay WS)
	Total	\$42,500	\$0	0%	-\$42,500	
Other						
	Unbudgeted Items					
	Other	\$0	\$0		\$0	Misc Expense Items Not Budgeted (Placeholder for Actuals)
		\$0	\$0		\$0	
Tech Support						
	Technical Support					
	Nutrients					
	Watershed	\$880,000	\$880,000	100%	\$0	
	NMS Voluntary Contributions	\$200,000	\$200,000	100%	\$0	Approved April 2018 in FY19 Budget & Workplan
	Additional work under permit	\$100,000	\$0	0%	-\$100,000	Increased at Board's request (LimnoTech, HDR add'l SOW's in FY19 - 2 Amendments)
	Opt/Upgrade/Annual Reporting Studies	\$25,000	\$0	0%	-\$25,000	FY19: Balance remaining on agreement at end of FY18 (Actual \$25,652.20)
	Member Voluntary Nutrient Contributions	\$0	\$0		\$0	
	Nutrient Workshop(s)	\$20,000	\$0	0%	-\$20,000	Pilot Studies/Plant Review/Innovative Technologies
	General Tech Support	\$51,000	\$0	0%	-\$51,000	2% increase. EOA ChlResidBPA continues into FY19
	Risk Reduction	\$10,000	\$0	0%	-\$10,000	\$50,000 over 5 years (FY19-FY23) 2 Contracts for \$25,000 each over FY19, 20, & 21
	Total	\$1,286,000	\$1,080,000	84%	-\$206,000	
	TOTAL EXPENSES	\$2,053,501	\$1,204,406	59%	-\$849,095	
	NET INCOME BEFORE TRANSFERS	\$145,080	\$744,061			
	TRANSFERS FROM RESERVES	\$0				
	NET INCOME AFTER TRANSFERS	\$145,080				

CHECK ON BACWA LIQUIDITY THRESHHOLD

	FY19										FY20		BUDGET	BUDGET (est)
	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Totals FY19</u>	<u>Totals FY20</u>
	2018	2018	2018	2019	2019	2019	2019	2019	2019	2019	2019	2019		
BEGINNING UNOBLIGATED FUND BALANCE	\$4,045,307	\$4,513,827	\$4,982,347	\$4,901,222	\$4,820,097	\$4,738,972	\$4,657,847	\$4,576,722	\$4,495,597	\$4,414,472	\$4,322,889	\$2,807,725		
Average Monthly Revenues	\$549,645	\$549,645	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$776,419	\$776,419	\$2,198,581	\$3,105,677
Average Monthly Expenditures (Less Large one time Expenses)	(\$81,125)	(\$81,125)	(\$81,125)	(\$81,125)	(\$81,125)	(\$81,125)	(\$81,125)	(\$81,125)	(\$81,125)	(\$91,583)	(\$91,583)	(\$91,583)	\$973,501	\$1,098,991
Less Large Expenditures	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,200,000)	\$0		
NET AVAILABLE FOR INVESTMENT	\$4,513,827	\$4,982,347	\$4,901,222	\$4,820,097	\$4,738,972	\$4,657,847	\$4,576,722	\$4,495,597	\$4,414,472	\$4,322,889	\$2,807,725	\$3,492,561		
NEW INVESTMENTS														
Higher Yield (non-liquid)	(\$600,000)	(\$905,000)	(\$905,000)	(\$905,000)	(\$905,000)	(\$905,000)	(\$905,000)	(\$600,000)	(\$905,000)	(\$905,000)	(\$905,000)	(\$905,000)		
MATURITIES/Called														
Higher Yield (non-liquid)	\$305,000	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0		
AVAILABLE LIQUID FUNDS	\$4,218,827	\$4,077,347	\$3,996,222	\$3,915,097	\$3,833,972	\$3,752,847	\$3,671,722	\$4,195,597	\$3,509,472	\$3,417,889	\$1,902,725	\$2,587,561		
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		



Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

October 25, 2018

MEMO TO: Bay Area Clean Water Agencies Executive Board

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

SUBJECT: Third Month FY 2019 Treasurer's Report

for D. Sk.

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, 2018 through September 30, 2018** (three months of Fiscal Year 2019). 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),
- Water/Wastewater Operator Training (WOT),
- Prop84 Bay Area Integrated Regional Water Mgmt (PRP84)

BACWA Fund Report as of September 30, 2018

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	1,186,598	673,095	124,405	1,735,288	486,220	1,249,068
804	LEGAL RSRV	300,000	-	-	300,000	-	300,000
805	CBC	1,814,647	1,275,372	1,080,000	2,010,019	190,248	1,819,771
	SUBTOTAL 1	3,301,245	1,948,467	1,204,405	4,045,307	676,468	3,368,839
810	WOT	208,214	105,000	600	312,613	-	312,613
	SUBTOTAL 2	208,214	105,000	600	312,613	-	312,613
811	PRP84	117,907	-	-	117,907	-	117,907
	SUBTOTAL 3	117,907	-	-	117,907	-	117,907
	GRAND TOTAL	3,627,367	2,053,467	1,205,005	4,475,828	676,468	3,799,360

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	1,186,598	673,095	124,405	1,735,288	34,070	1,769,358	1,051,777	717,581	32%	-	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	1,814,647	1,275,372	1,080,000	2,010,019	-	2,010,019	-	1,545,019	68%	465,000	G64, ME2	priority # 2 for allocation
	SUBTOTAL 1	3,301,245	1,948,467	1,204,405	4,045,307	34,070	4,079,377	1,051,777	2,262,600	100%	765,000		
810	WOT	208,214	105,000	600	312,613	-	312,613	312,613	-	0%	-		pass-through funds, no allocation
	SUBTOTAL 2	208,214	105,000	600	312,613	-	312,613	312,613	-	0%	-		
811	PRP84	117,907	-	-	117,907	-	117,907	117,907	-	0%	-		pass-through funds, no allocation
815	PRP50	-	-	-	-	-	-	-	-	0%	-		pass-through funds, no allocation
	SUBTOTAL 3	117,907	-	-	117,907	-	117,907	117,907	-	0%	-		
	GRAND TOTAL	3,627,367	2,053,467	1,205,005	4,475,828	34,070	4,509,898	1,482,298	2,262,600		765,000		

Reconciliation to Trial Balance - accrual basis

Per Report above:

General	1,948,467
WOT	105,000
PROP	-
subtotal	2,053,467

Billings-Pending Receipts

4686	Mem Contrib	140,178
4687	Transfer	-
4690	Assoc Contrib	64,017
4696	Other	69,279
4731	State Grant	-
4732	Grant Retention	-
subtotal		273,474

Trial Balance Revenue Accounts

4411	Interest	(10,829)
4686	Mem Contrib	(1,320,835)
4687	Transfer	-
4690	Assoc Contrib	(184,678)
4696	Other	(810,599)
4731	State Grant	-
4732	Grant Retention	-
subtotal		<u>(2,326,941)</u>
Difference		0

BACWA Revenue Report as of September 30, 2018

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	BDO Member Contributions	496,837	-	-	-	-	496,835	-	496,835	2
800	BACWA	1011108	BDO Other Receipts	-	-	-	-	-	-	-	-	-
800	BACWA	1011109	BDO Fund Transfers	5,000	-	-	-	-	-	-	-	5,000
800	BACWA	1011117	BDO- Interest Income from LAIF	20,000	-	-	-	-	-	4,332	4,332	15,668
800	Bay Area Clean \	1011133	BDO Assoc.&Affiliate Contr	182,144	-	120,661	-	-	120,661	-	120,661	61,483
800	Bay Area Clean \	1014251	BDO Non-Member Contr BAPPG	3,800	-	1,267	-	-	1,267	-	1,267	2,533
800	BACWA	1014252	BDO Non-Member Contr AIR	6,800	-	-	-	-	-	-	-	6,800
800	BACWA	1014511	BDO-Alternative Investment Inc	9,000	-	-	-	-	-	-	-	9,000
800	BACWA	1015005	Biosolids&ClimateRscl-OtrRcpts	-	-	-	-	-	50,000	-	50,000	(50,000)
BACWA TOTAL				723,581	-	121,928	-	-	668,763	4,332	673,095	50,486
805	Clean Bay Collat	1011099	BDO Member Contributions	675,000	-	128,822	-	-	578,822	-	578,822	96,178
805	Clean Bay Collat	1011108	BDO Other Receipts	800,000	-	156,718	-	-	690,053	-	690,053	109,947
805	WQA-CBC	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	6,497	6,497	(6,497)
805	WQA-CBC	1014528	BDO-Voluntary Nutrient Contrib	-	-	-	-	-	-	-	-	-
WQA CBC TOTAL				1,475,000	-	285,540	-	-	1,268,875	6,497	1,275,372	199,628
TOTAL				2,198,581	-	407,468	-	-	1,937,638	10,829	1,948,467	250,114

	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 - Wtr/Wwtr	1011099	BDO Member Contributions	-	-	87,000	-	-	105,000	-	105,000	(105,000)
810	WOT	1011108	BDO Other Receipts	-	-	-	-	-	-	-	-	-
810	WOT	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
WOT TOTAL				-	-	87,000	-	-	105,000	-	105,000	(105,000)

	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			-	-	-	-	-	-	-	-	-
PROP TOTAL				-	-	-	-	-	-	-	-	-

Grand Total				2,198,581	-	494,468	-	-	2,042,638	10,829	2,053,467	145,114
--------------------	--	--	--	------------------	---	----------------	---	---	------------------	---------------	------------------	----------------

BACWA Expense Detail Report as of September 30, 2018

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	201,682	(16,807)	16,807	-	-	168,068	33,614	-	-	201,682	-
AS-Assistant Executive Directo	1011124	90,526	(7,498)	7,498	-	-	67,080	23,446	-	-	90,526	-
AS-Regulatory Program Manager	1011149	119,815	(9,825)	9,825	-	-	92,737	27,078	-	-	119,815	-
ADMINISTRATION												
AS-EBMUD Financial Services	1011125	40,800	-	-	-	-	40,800	-	-	-	40,800	-
AS-Audit Services	1014512	6,426	-	-	-	-	-	1,870	3,740	(6,300)	(690)	7,116
AS-BACWA Admin Expense	1011118	7,650	-	-	711	-	-	-	927	-	927	6,723
AS-Insurance	1011126	4,590	-	-	4,393	-	-	-	4,393	-	4,393	197
MEETINGS												
GBS-Meeting Support-Exec Bd	1014513	2,550	(104)	104	-	-	2,313	237	229	-	2,779	(229)
GBS-Meeting Support-Annual	1014514	10,200	-	-	-	-	-	-	500	-	500	9,700
GBS-Meeting Support-Pardee	1014515	6,120	-	-	279	-	-	-	279	-	279	5,841
GBS-Meeting Support-Misc	1014516	5,100	-	-	2,291	-	-	-	3,340	-	3,340	1,760
GBS- Meeting Support	1011122	-	-	-	-	-	-	-	-	-	-	-
COMMUNICATION												
CAR-BACWA Website Hosting	1014517	750	-	-	-	-	-	-	600	-	600	150
CAR-BACWA File Storage	1014518	1,500	-	-	-	-	-	-	-	-	-	1,500
CAR-BACWA IT Support	1014519	2,600	(180)	180	-	-	2,420	180	-	-	2,600	-
CAR-BACWA IT Software	1014520	1,500	-	-	79	-	-	-	197	-	197	1,303
CAR-BACWA Website Dev/Maint	1011116	600	-	-	-	-	-	-	-	-	-	600
LEGAL												
LS-Regulatory Support	1011107	2,601	-	-	-	-	2,601	-	-	-	2,601	-
LS-Executive Board Support	1011110	2,091	-	-	-	-	2,091	-	-	-	2,091	-
COMMITTEES												
AIR-Air Issues&Regulation Grp	1014253	51,000	(4,648)	4,648	-	-	45,352	4,648	409	-	50,409	591
BC-BAPPG	1011147	100,000	(9,221)	9,221	-	-	62,758	13,242	10,912	-	86,912	13,088
BC-Biosolids Committee	1011101	3,100	-	-	206	-	-	-	206	-	206	2,894
BC-Collections System	1011097	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-InfoShare Groups	1011102	1,200	-	-	173	-	-	-	173	-	173	1,027
BC-Laboratory Committee	1011103	6,100	-	-	-	-	-	-	-	-	-	6,100
BC-Permit Committee	1011098	1,000	-	-	191	-	-	-	374	-	374	626
BC-Pretreatment Committee	1011146	7,500	-	-	-	-	-	-	-	-	-	7,500
BC-Water Recycling Committee	1011100	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Managers Roundtable	1014444	1,000	-	-	111	-	-	-	111	-	111	889
BC-Miscellaneous Committee Sup	1011104	45,000	-	-	-	-	-	-	-	-	-	45,000
COLLABORATIVES												
CAS-Arleen Navaret Award	1012201	-	-	-	-	-	-	-	-	-	-	-
CAS-FWQC	1012202	7,500	-	-	-	-	-	-	-	-	-	7,500
CAS-Stanford ERC	1011969	10,000	-	-	-	-	-	-	-	-	-	10,000
CAS-CWCCG	1011148	-	-	-	-	-	-	-	-	-	-	-
CAS-PSSEP	1011112	20,000	-	-	-	-	-	-	-	-	-	20,000
CAS-Misc Collaborative Sup	1014521	5,000	-	-	-	-	-	-	-	-	-	5,000
BDO-Contract Expenses (PHARM)												
BDO-Contract Expenses (PHARM)	1014551	-	-	-	-	-	-	-	-	-	-	-
BACWA TOTAL		767,501	(48,283)	48,283	8,434	-	486,220	104,315	26,390	(6,300)	610,625	156,876
TECH SUPPORT												
WQA-CE Addl Work Under Permit	1014254	100,000	-	-	-	-	86,410	-	-	-	86,410	13,590
WQA-CE-Technical Support	1011127	51,000	-	-	-	-	78,186	-	-	-	78,186	(27,186)
WQA-CE CASA Chem of Concern	1011128	-	-	-	-	-	-	-	-	-	-	-
WQA-CE Opt-Upgrade Studies	1014255	25,000	-	-	-	-	25,652	-	-	-	25,652	(652)
WQA-CE Risk Reduction	1014023	10,000	-	-	-	-	-	-	-	-	-	10,000
WQA-CE-Nutrient WS Permit Comm	1014021	880,000	-	-	-	-	-	-	880,000	-	880,000	-
WQA-CE-Program Mgmt	1011131	-	-	-	-	-	-	-	-	-	-	-
WQA-CE Voluntary Nutr Contrib	1014529	200,000	-	-	-	-	-	-	200,000	-	200,000	-
Member Voluntary Nutrient Contl	1015014	-	-	-	-	-	-	-	-	-	-	-
Nutrient Workshops	1015015	20,000	-	-	-	-	-	-	-	-	-	20,000
TECH SUPPORT (CBC) TOTAL		1,286,000	-	-	-	-	190,248	-	1,080,000	-	1,270,248	15,752
GRAND TOTAL		2,053,501	(48,283)	48,283	8,434	-	676,468	104,315	1,106,390	(6,300)	1,880,873	172,628
							TOTAL	1,204,405				
WOT												
Administrative Support	1011142	-	-	-	-	-	-	-	-	-	-	-
BDO Contract Expenses	1011143	-	-	-	-	-	-	-	600	-	600	(600)
		-	-	-	-	-	-	-	600	-	600	(600)
GRAND TOTAL (BDO, CBC, WOT)		2,053,501	(48,283)	48,283	8,434	-	676,468	104,315	1,106,990	(6,300)	1,881,473	172,028

Proposition 84 Revenue Report as of September 30, 2018

DEPTID	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers,Ot hers	Admin & General	Contributons	Interest, Transfers,O thers	ACTUAL	
811	Prop84BayAreaIntegRegnlWtrMgmt	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011142	Administrative Support	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011691	Water Efficient Landscape Reba	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011705	Regional Green Infrastructure	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011706	Hacienda Ave Green St Improvem	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011707	WQ Improve Flood Mgmt & EP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011911	Stream Restoration w/Schools i	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012209	Water Efficient LRP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012210	Bay Friendly Landscape TP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012211	Weather Based Irrigation Cntrl	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012212	High Efficiency Toilet & UR	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012213	High Efficiency Toilet & UI	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012214	High Efficiency Clothes Washrs	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012215	Napa Co. Rainwater HP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012216	Conservation Program Admin	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012218	Stream Restoration in North BD	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012219	Flood Infrastructure Mapping T	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012220	Stormwater Improvements & PBP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012221	Richmond Shoreline & San PFP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012222	Pescadero Integrated FRAH	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012223	Restoration Guidance, San FC	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012224	SF Estuary Steelhead MP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012225	Watershed Program Admnstrtn	-	-	-	-	-	-	-	-	-
PROP 84 TOTAL				-	-	-	-	-	-	-	-	-

Proposition 84 Expense Detail Report for September 2018

DEPTID	DEPARTMENT	EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
				ENC	PV	DA	JV	ENC	PV	DA	JV		
811	Prop84BayAreaIntegRegnlWtrMgmt	BDO Fund Transfers	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Administrative Support	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	BDO Contract Expenses	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Regional Green Infrastructure	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Hacienda Ave Green St Improvem	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Water Efficient LRP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Bay Friendly Landscape TP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Weather Based Irrigation Cntrl	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Toilet & UR	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Toilet & UI	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Clothes Washrs	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Napa Co. Rainwater HP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Conservation Program Admin	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Flood Infrastructure Mapping T	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Stormwater Improvements & PBP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Richmond Shoreline & San PFP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Pescadero Integrated FRAH	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Restoration Guidance, San FC	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	SF Estuary Steelhead MP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Stream Restoration in North BD	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Watershed Program Admnstrtn	-	-	-	-	-	-	-	-	-	-	-
PRP84 TOTAL			-	-	-	-	-	-	-	-	-	-	-



Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

September 25, 2018

MEMO TO: Bay Area Clean Water Agencies Executive Board
MEMO FROM: D. Scott Klein, Controller, East Bay Municipal Utility District
SUBJECT: Second Month FY 2019 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, 2018 through August 31, 2018** (two months of Fiscal Year 2019). 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),
- Water/Wastewater Operator Training (WOT),
- Prop84 Bay Area Integrated Regional Water Mgmt (PRP84)

BACWA Fund Report as of August 31, 2018

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	1,186,598	551,167	67,688	1,670,077	534,503	1,135,574
804	LEGAL RSRV	300,000	-	-	300,000	-	300,000
805	CBC	1,814,647	989,832	1,080,000	1,724,479	190,248	1,534,231
	SUBTOTAL 1	3,301,245	1,540,999	1,147,688	3,694,556	724,751	2,969,806
810	WOT	208,214	18,000	600	225,613	-	225,613
	SUBTOTAL 2	208,214	18,000	600	225,613	-	225,613
811	PRP84	117,907	-	-	117,907	-	117,907
	SUBTOTAL 3	117,907	-	-	117,907	-	117,907
	GRAND TOTAL	3,627,367	1,558,999	1,148,288	4,038,077	724,751	3,313,327

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	1,186,598	551,167	67,688	1,670,077	904,725	2,574,802	1,571,681	1,003,121	44%	-	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	1,814,647	989,832	1,080,000	1,724,479	-	1,724,479	-	1,259,479	56%	465,000	G64, ME2	priority # 2 for allocation	
	SUBTOTAL 1	3,301,245	1,540,999	1,147,688	3,694,556	904,725	4,599,281	1,571,681	2,262,600	100%	765,000			
810	WOT	208,214	18,000	600	225,613	-	225,613	225,613	-	0%	-		pass-through funds, no allocation	
	SUBTOTAL 2	208,214	18,000	600	225,613	-	225,613	225,613	-	0%	-			
811	PRP84	117,907	-	-	117,907	-	117,907	117,907	-	0%	-		pass-through funds, no allocation	
815	PRP50	-	-	-	-	-	-	-	-	0%	-		pass-through funds, no allocation	
	SUBTOTAL 3	117,907	-	-	117,907	-	117,907	117,907	-	0%	-			
	GRAND TOTAL	3,627,367	1,558,999	1,148,288	4,038,077	904,725	4,942,802	1,915,202	2,262,600		765,000			

Reconciliation to Trial Balance - accrual basis

Per Report above:

General	1,540,999
WOT	18,000
PROP	-
subtotal	1,558,999

Billings-Pending Receipts

4686	Mem Contrib	356,000
4687	Transfer	
4690	Assoc Contrib	184,678
4696	Other	227,264
4731	State Grant	-
4732	Grant Retention	-
subtotal		767,942

Trial Balance Revenue Accounts

4411	Interest	(10,829)
4686	Mem Contrib	(1,320,835)
4687	Transfer	-
4690	Assoc Contrib	(184,678)
4696	Other	(810,599)
4731	State Grant	-
4732	Grant Retention	-
subtotal		(2,326,941)
Difference		

BACWA Revenue Report as of August 31, 2018

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	BDO Member Contributions	496,837	-	496,835	-	-	496,835	-	496,835	2
800	BACWA	1011108	BDO Other Receipts	-	-	-	-	-	-	-	-	-
800	BACWA	1011109	BDO Fund Transfers	5,000	-	-	-	-	-	-	-	5,000
800	BACWA	1011117	BDO- Interest Income from LAIF	20,000	-	-	-	-	-	4,332	4,332	15,668
800	BACWA	1011133	BDO Assoc.&Affiliate Contr	182,144	-	-	-	-	-	-	-	182,144
800	BACWA	1014251	BDO Non-Member Contr BAPPG	3,800	-	-	-	-	-	-	-	3,800
800	BACWA	1014252	BDO Non-Member Contr AIR	6,800	-	-	-	-	-	-	-	6,800
800	BACWA	1014511	BDO-Alternative Investment Inc	9,000	-	-	-	-	-	-	-	9,000
800	BACWA	1015005	Biosolids&ClimateRsch-Otr Rcpts	-	-	-	-	-	50,000	-	50,000	(50,000)
BACWA TOTAL				723,581	-	496,835	-	-	546,835	4,332	551,167	172,414
805	WQA-CBC	1011099	BDO Member Contributions	675,000	-	450,000	-	-	450,000	-	450,000	225,000
805	WQA-CBC	1011108	BDO Other Receipts	800,000	-	533,335	-	-	533,335	-	533,335	266,665
805	WQA-CBC	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	6,497	6,497	(6,497)
805	WQA-CBC	1014528	BDO-Voluntary Nutrient Contrib	-	-	-	-	-	-	-	-	-
WQA CBC TOTAL				1,475,000	-	983,335	-	-	983,335	6,497	989,832	485,168
TOTAL				2,198,581	-	1,480,170	-	-	1,530,170	10,829	1,540,999	657,582

	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	-	-	18,000	-	-	18,000	-	18,000	(18,000)
810	WOT	1011108	BDO Other Receipts	-	-	-	-	-	-	-	-	-
810	WOT	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
WOT TOTAL				-	-	18,000	-	-	18,000	-	18,000	(18,000)

	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			-	-	-	-	-	-	-	-	-
PROP TOTAL				-	-	-	-	-	-	-	-	-

Grand Total				2,198,581	-	1,498,170	-	-	1,548,170	10,829	1,558,999	639,582
--------------------	--	--	--	------------------	---	------------------	---	---	------------------	---------------	------------------	----------------

BACWA Expense Detail Report as of August 31, 2018

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	201,682	-	-	-	-	184,875	16,807	-	-	201,682	-
AS-Assistant Executive Directo	1011124	90,526	(7,423)	7,423	-	-	74,579	15,947	-	-	90,526	-
AS-Regulatory Program Manager	1011149	119,815	(10,112)	10,112	-	-	102,562	17,253	-	-	119,815	-
ADMINISTRATION												
AS-EBMUD Financial Services	1011125	40,800	-	-	-	-	40,800	-	-	-	40,800	-
AS-Audit Services	1014512	6,426	-	-	3,740	-	-	1,870	3,740	(6,300)	(690)	7,116
AS-BACWA Admin Expense	1011118	7,650	-	-	132	-	-	-	216	-	216	7,434
AS-Insurance	1011126	4,590	-	-	-	-	-	-	-	-	-	4,590
MEETINGS												
GBS-Meeting Support-Exec Bd	1014513	2,550	-	-	229	-	2,416	134	229	-	2,779	(229)
GBS-Meeting Support-Annual	1014514	10,200	-	-	-	-	-	-	500	-	500	9,700
GBS-Meeting Support-Pardee	1014515	6,120	-	-	-	-	-	-	-	-	-	6,120
GBS-Meeting Support-Misc	1014516	5,100	-	-	530	-	-	-	1,050	-	1,050	4,050
GBS- Meeting Support	1011122	-	-	-	-	-	-	-	-	-	-	-
COMMUNICATION												
CAR-BACWA Website Hosting	1014517	750	-	-	-	-	-	-	600	-	600	150
CAR-BACWA File Storage	1014518	1,500	-	-	-	-	-	-	-	-	-	1,500
CAR-BACWA IT Support	1014519	2,600	-	-	-	-	2,600	-	-	-	2,600	-
CAR-BACWA IT Software	1014520	1,500	-	-	59	-	-	-	118	-	118	1,382
CAR-BACWA Website Dev/Maint	1011116	600	-	-	-	-	-	-	-	-	-	600
LEGAL												
LS-Regulatory Support	1011107	2,601	-	-	-	-	2,601	-	-	-	2,601	-
LS-Executive Board Support	1011110	2,091	-	-	-	-	2,091	-	-	-	2,091	-
COMMITTEES												
AIR-Air Issues&Regulation Grp	1014253	51,000	-	-	409	-	50,000	-	409	-	50,409	591
BC-BAPPG	1011147	100,000	(2,978)	2,978	-	-	71,979	4,021	10,912	-	86,912	13,088
BC-Biosolids Committee	1011101	3,100	-	-	-	-	-	-	-	-	-	3,100
BC-Collections System	1011097	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-InfoShare Groups	1011102	1,200	-	-	-	-	-	-	-	-	-	1,200
BC-Laboratory Committee	1011103	6,100	-	-	-	-	-	-	-	-	-	6,100
BC-Permit Committee	1011098	1,000	-	-	-	-	-	-	182	-	182	818
BC-Pretreatment Committee	1011146	7,500	-	-	-	-	-	-	-	-	-	7,500
BC-Water Recycling Committee	1011100	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Managers Roundtable	1014111	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Miscellaneous Committee Sup	1011104	45,000	-	-	-	-	-	-	-	-	-	45,000
COLLABORATIVES												
CAS-Arleen Navaret Award	1012201	-	-	-	-	-	-	-	-	-	-	-
CAS-FWQC	1012202	7,500	-	-	-	-	-	-	-	-	-	7,500
CAS-Stanford ERC	1011969	10,000	-	-	-	-	-	-	-	-	-	10,000
CAS-CWCCG	1011148	-	-	-	-	-	-	-	-	-	-	-
CAS-PSSEP	1011112	20,000	-	-	-	-	-	-	-	-	-	20,000
CAS-Misc Collaborative Sup	1014521	5,000	-	-	-	-	-	-	-	-	-	5,000
BDO-Contract Expenses (PHARM)												
BDO-Contract Expenses (PHARM)	1014551	-	-	-	-	-	-	-	-	-	-	-
BACWA TOTAL		767,501	(20,513)	20,513	5,099	-	534,503	56,032	17,956	(6,300)	602,191	165,310
TECH SUPPORT												
WQA-CE Addl Work Under Permit	1014254	100,000	-	-	-	-	86,410	-	-	-	86,410	13,590
WQA-CE-Technical Support	1011127	51,000	-	-	-	-	78,186	-	-	-	78,186	(27,186)
WQA-CE CASA Chem of Concern	1011128	-	-	-	-	-	-	-	-	-	-	-
WQA-CE Opt-Upgrade Studies	1014255	25,000	-	-	-	-	25,652	-	-	-	25,652	(652)
WQA-CE Risk Reduction	1014023	10,000	-	-	-	-	-	-	-	-	-	10,000
WQA-CE-Nutrient WS Permit Comm	1014021	880,000	-	-	880,000	-	-	-	880,000	-	880,000	-
WQA-CE-Program Mgmt	1011131	-	-	-	-	-	-	-	-	-	-	-
WQA-CE Voluntary Nutr Contrib	1014529	200,000	-	-	-	-	-	-	200,000	-	200,000	-
Member Voluntary Nutrient Cont	1015014	-	-	-	-	-	-	-	-	-	-	-
Nutrient Workshops	1015015	20,000	-	-	-	-	-	-	-	-	-	20,000
TECH SUPPORT (CBC) TOTAL		1,266,000	-	-	880,000	-	190,248	-	1,080,000	-	1,270,248	(4,248)
GRAND TOTAL		2,033,501	(20,513)	20,513	885,099	-	724,751	56,032	1,097,956	(6,300)	1,872,439	161,062
							TOTAL	1,147,688				
WOT												
Administrative Support	1011142	-	-	-	-	-	-	-	-	-	-	-
BDO Contract Expenses	1011143	-	-	-	-	-	-	-	600	-	600	(600)
					600	-			600	-	600	(600)
GRAND TOTAL (BDO, CBC, WOT)		2,033,501	(20,513)	20,513	885,700	-	724,751	56,032	1,098,556	(6,300)	1,873,039	160,462

Proposition Revenue Report as of August 31, 2018

DEPTID	DEPARTMENT	JOB	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
					Admin & General	Contributons	Interest, Transfers, Ot hers	Admin & General	Contributons	Interest, Transfers, O thers	ACTUAL	
811	Prop84BayAreaIntegRegnlWtrMgmt	1011117	BDO- Interest Income from LAIF	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011142	Administrative Support	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011691	Water Efficient Landscape Reba	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011705	Regional Green Infrastructure	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011706	Hacienda Ave Green St Improvem	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011707	WQ Improve Flood Mgmt & EP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1011911	Stream Restoration w/Schools i	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012209	Water Efficient LRP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012210	Bay Friendly Landscape TP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012211	Weather Based Irrigation Cntrl	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012212	High Efficiency Toilet & UR	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012213	High Efficiency Toilet & UI	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012214	High Efficiency Clothes Washrs	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012215	Napa Co. Rainwater HP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012216	Conservation Program Admin	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012218	Stream Restoration in North BD	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012219	Flood Infrastructure Mapping T	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012220	Stormwater Improvements & PBP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012221	Richmond Shoreline & San PFP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012222	Pescadero Integrated FRAH	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012223	Restoration Guidance, San FC	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012224	SF Estuary Steelhead MP	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	1012225	Watershed Program Admnstrtn	-	-	-	-	-	-	-	-	-
PROP 84 TOTAL				-	-	-	-	-	-	-	-	-

Proposition Expense Detail Report as of August 31, 2018

DEPTID	DEPARTMENT	EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
				ENC	PV	DA	JV	ENC	PV	DA	JV		
811	Prop84BayAreaIntegRegnlWtrMgmt	BDO Fund Transfers	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Administrative Support	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	BDO Contract Expenses	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Regional Green Infrastructure	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Hacienda Ave Green St Improvem	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Water Efficient LRP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Bay Friendly Landscape TP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Weather Based Irrigation Cntrl	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Toilet & UR	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Toilet & UI	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Clothes Washrs	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Napa Co. Rainwater HP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Conservation Program Admin	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Flood Infrastructure Mapping T	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Stormwater Improvements & PBP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Richmond Shoreline & San PFP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Pescadero Integrated FRAH	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Restoration Guidance, San FC	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	SF Estuary Steelhead MP	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Stream Restoration in North BD	-	-	-	-	-	-	-	-	-	-	-
811	Prop84BayAreaIntegRegnlWtrMgmt	Watershed Program Admnstrtn	-	-	-	-	-	-	-	-	-	-	-
PRP84 TOTAL			-	-	-	-	-	-	-	-	-	-	-



BACWA EXECUTIVE DIRECTOR AUTHORIZATION

AGENDA NO.: 3

FILE NO.: 19-22

MEETING DATE: Nov. 16, 2018

TITLE: BACWA Executive Director Authorization of Amendment #5 to Optimization/Upgrade Agreement with HDR

☒ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☐ APPROVAL

ACTION TAKEN

The BACWA Executive Director approved Amendment #5 to the Agreement with HDR, 13,397, approved on September 9, 2014, to provide as needed services in support of the Pardee Technical Seminar and a presentation for Water Board staff to brief their Board on the Optimization/Upgrade Study. The authorized amount will not exceed \$5,000.00.

SUMMARY

The Optimization/Upgrade Study was completed at the end of FY18, and the Final Nutrient Reduction Study Report was submitted to the Regional Water Board on June 26, 2018. The Executive Board has asked HDR to also provide as needed services in support of the Pardee Technical Seminar and a presentation for Water Board staff to brief their Board on the Optimization/Upgrade Study.

FISCAL IMPACT

The BACWA FY19 Budget includes \$100,000.00 for "Additional Work Under Permit." A previous Amendment #4 to the HDR Agreement to be paid from this line item was approved on July 20, 2018 in the amount of \$29,410.00.

ALTERNATIVES

Do not proceed with the work. This is not recommended since the Executive Board requested the additional work.

Attachments:

HDR Amendment #5

David R. Williams

Approved: _____

David. R. Williams
BACWA Executive Director

Date: 10/23/18

**AMENDMENT NO. 5
TO AGREEMENT BETWEEN
BAY AREA CLEAN WATER AGENCIES AND
HDR Engineering)
FOR
As-Needed Services**

This Amendment No. 5 is made this th day of October, 2018, in the City of Oakland, County of Alameda, State of California, to that certain agreement of September 9, 2014 by and between HDR Engineering) and Bay Area Clean Water Agencies, (BACWA) (the "Agreement") in consideration of the covenants hereinafter set forth.

1. BACWA and HDR Engineering agree to an increase of a not to exceed amount of \$5,000.00.
2. Except as herein expressly modified, the Agreement will remain in full force and effect.

BAY AREA CLEAN WATER AGENCIES

By  Date October 23, 2018
David R. Williams, Executive Director

HDR Engineering

By  Date October 23, 2018



BACWA EXECUTIVE BOARD AUTHORIZATION REQUEST

AGENDA NO.: 4

FILE NO.: 19-23

MEETING DATE: November 16, 2018

TITLE: Approval of Audited Financial Reports for the Year Ended June 30, 2018, and the BACWA Annual Report to its Members for FY2018.

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Approve the Audited Financial Report for Fiscal Year 2018 (Basic Financial Statements and Memorandum of Internal Control) provided by EBMUD acting as Treasurer of BACWA, and approve the BACWA Annual Report to its membership for FY2018.

SUMMARY

At the end of each fiscal year EBMUD requests an audit of the BACWA financials and provides the reports to BACWA. The two audits are provided for Board approval. There were no significant issues found in the audit. In addition, BACWA is required to prepare and Annual Report to its membership which describes the technical and financial activities of the Association for the preceding year.

FISCAL IMPACT

Audits are prepared by Auditors engaged by EBMUD and paid for under the budgeted Audit Fees. The Annual Report to its members is prepared by BACWA staff.

ALTERNATIVES

Do not approve the audited financial reports and the Annual Report to the membership. This is not recommended as the audits and the Annual Report are required by the BACWA JPA.

Attachments

BACWA Basic Financial Statement

Memorandum on Internal Control and Required Communication

BACWA FY2018 Annual Report to Members

Approved:

Lori Schectel, BACWA Chair

Date: _____



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 5
FILE NO.: 19-24
MEETING DATE: Nov. 16, 2018

TITLE: Request for Board Approval of Resolution No. R-19-01

☐ RECEIPT ☐ DISCUSSION ☒ RESOLUTION ☐ APPROVAL

RECOMMENDED ACTION

Approve Resolution No. R-19-01 which recognizes the various categories of Associate members and sets the rule for participation of non-members in BACWA activities and committees.

SUMMARY: The BACWA Joint Powers Authority (JPA) defines BACWA membership in the following manner:

- a. Any public agency other than the original signatory agencies, with wastewater treatment or disposal responsibilities accepted for membership in this Association by the Executive Board*

To recognize the various types of members that have emerged since the JPA was originally adopted in 1984, the Executive Board should adopt a Resolution that defines categories of Associate members based on size of treatment facilities and whether or not the public agencies owns a treatment plant or just the collection system. The Resolution also addresses the establishment of fees to public entities that are not members of BACWA but desire to participate in activities and committees.

FISCAL IMPACT

No fiscal impact to BACWA.

ALTERNATIVES

This action does not require consideration of alternatives.

Attachment; Resolution R-19-01

Approved:

Date:

Lori Schectel, Chair
BACWA Executive Board



BAY AREA CLEAN WATER AGENCIES

EXECUTIVE BOARD RESOLUTION NO. R-19-01

WHEREAS, the Bay Area Clean Water Agencies (BACWA) was formed in 1984 as a public Joint Powers Authority with the mission of developing a regional understanding of the San Francisco Bay Estuary's watershed protection and enhancement needs through reliance on sound science, environmental, and economic information; *and*

WHEREAS, the public Joint Powers Authority (JPA) defines BACWA Associate membership in the following manner:

- a. Any public agency other than the original signatory agencies, with wastewater treatment or disposal responsibilities accepted for membership in this Association by the Executive Board; *and*

WHEREAS, the Executive Board pursuant to Section 5 B of the JPA has the authority to set forth the conditions and privileges of membership for Associate Members; *and*

WHEREAS, for the sake of clarity and to be consistent with the different types of Associate members which have emerged over time, the Executive Board desires by this Resolution to formally establish categories of BACWA Associate membership beyond the original overarching definition set forth in the JPA in the following manner:

- a. Category 1: Associate Member (greater than or equal to 10 mgd treatment plant permitted design capacity)
- b. Category 2: Affiliate Associate Member (less than 10 mgd treatment plant permitted design capacity)
- c. Category 3: Affiliate Collection-Only Associate Member (separate public agency having only a collection system which discharges to a regional treatment plant); *and*

WHEREAS, there are other public agencies that desire to participate in some of BACWA's activities and Committees but are not recognized as BACWA members, these agencies would not pay BACWA dues but rather be charged a fee set by the Executive Board on a case-by-case basis which would allow them to continue their level of participation; *and*

WHEREAS, in accordance with the JPA, only the original Signatories to the JPA would have voting rights.

NOW, THEREFORE, BE IT RESOLVED that commencing with adoption of the 2019 fiscal year and with each fiscal year thereafter, the above membership definitions and rules for participation are hereby adopted by the Executive Board pursuant to Section 5 of the Joint Powers Agreement unless and until such definitions are changed by resolution of the Executive Board.

CERTIFICATION

The undersigned, as Chair of Bay Area Clean Water Agency, hereby certifies that the foregoing Resolution was duly adopted by the Executive Board at its regular meeting held on November 16, 2018.

Lori, Schectel, BACWA Chair



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 6
FILE NO.: 19-25
MEETING DATE: Nov. 16, 2018

TITLE: Request for Board Approval of Joint SFEI/ASC Board Representatives from BACWA

☐ RECEIPT ☐ DISCUSSION ☐ RESOLUTION ☒ APPROVAL

RECOMMENDED ACTION

Solicit interest and select a new BACWA Representative and Alternate Representative(s) to the Joint SFEI/ASC Board.

SUMMARY: BACWA is a Signatory to the Aquatic Science Center, Joint Powers Agreement, along with the State Water Resources Control Board. The Board of Directors of ASC also serve as the Board for the San Francisco Estuary Institute (SFEI). According to the Bylaws of the JPA, each Signatory shall appoint three of its members, employees, or other representatives as Directors and, for each directorship, shall appoint up to two alternate Directors, any or all of whom may be elected officials. If two alternate Directors are appointed by any Signatory, the alternate Directors shall be designated as a first and second alternate. The designation of Directors and alternate Directors shall be made in writing to the Executive Director of SFEI/ASC.

With the departure of Laura Pagano (SFPUC), BACWA has a vacancy on the Joint SFEI/ASC Board. The BACWA Board must now select its representatives for ASC. Typically, the Board will solicit interests from among its members in being the BACWA representative to ASC and then make a selection from among the interested parties. To date, Eileen White (EBMUD) has volunteered to represent BACWA and Amy Chastain (SFPUC) has volunteered as an Alternate.

FISCAL IMPACT

No fiscal impact to BACWA.

ALTERNATIVES

This action does not require consideration of alternatives.

Approved:

Date:

Lori Schectel, Chair
BACWA Executive Board



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 7

FILE NO.: 19-26

MEETING DATE: Nov. 16, 2018

TITLE: Request for Board Approval of NMS Steering Committee Representative from BACWA

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Solicit interest and select a BACWA Alternate(s) to the NMS Steering Committee. .

SUMMARY: BACWA has two seats on the Bay Area Nutrient Management Strategy (NMS) Steering Committed (SC), the group that oversees the nutrient science plan and makes recommendations to the San Francisco Bay Water Board on regulatory policy issues regarding nutrients. Given the volume of information to be considered and various demands on SC Members' schedules, Alternates may be used by a participating organization. Alternates must be identified in advance, fully briefed, and able to represent the Member and the Member's constituents during decision-making. Alternates are expected to be kept up to date on all project activities by their Member representatives and are expected to attend on behalf of a Member, fully prepared to discuss agenda items. No items addressed at previous meetings will be revisited to accommodate an Alternate.

With the departure of Bhavani Yerrapotu, (Sunnyvale), BACWA has a vacancy on the NMS SC. Typically, the Board will solicit interests from among its members in being a BACWA Alternate representative on the NMS SC and then make a selection from among the interested parties. To date, Jacqueline Zipkin (EBDA) has volunteered to represent BACWA on the NMS as an Alternate.

FISCAL IMPACT

No fiscal impact to BACWA.

ALTERNATIVES

This action does not require consideration of alternatives.

Approved:

Date:

Lori Schectel, Chair
BACWA Executive Board



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 8

FILE NO.: 19-27

MEETING DATE: November 16, 2018

TITLE: Approval of Amendment #6 to Optimization/Upgrade Contract with HDR

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Approve Amendment No. 6 to the HDR contract 13,397 approved on September 9, 2014 in the amount of \$225,000.00 for services during the term of the 2nd Watershed Permit.

SUMMARY

HDR currently has a lump sum contract to complete the Optimization/Upgrade studies required by the Nutrient Watershed Permit. Amendment No. 6 will add three scope of work items to provide for continued support during the term of the 2nd Watershed Permit: 1) Prepare Group Annual Reports during the term of the 2nd Watershed Permit; 2) Provide As Needed Services related to the 2nd Watershed Permit; and 3) Provide Project Management.

FISCAL IMPACT

This scope of work was not included in the original lump sum contract for the HDR work. The term of this Amendment will begin in FY19 and run through the five year term of the 2nd Watershed Permit (FY20 through FY24). Of the \$225,000 total contract scope of work, \$50,000 is for as-needed services and will only be spent if a need arises for technical assistance connected to the 2nd Watershed Permit.

The annual budget includes a line item for additional work under the Watershed Permit. In FY19 \$100,000 was budgeted for this line item. To date BACWA has committed \$29,410 to HDR for Water Board Staff meeting support and preparation of a brochure that can be used by the BACWA members to assist in informing their governing bodies and the public about the nutrient issue; and \$5,000 for a separate presentation to the Water Board staff on the details of the Op/Upgrade Report and providing support at the Pardee Technical Seminar on presenting the Group Annual Report and technical assistance in discussing future regulatory approaches. Based on the 5-Year Plan, adequate funds will be available in the BACWA budget under the line item for Additional Work Under Permit during Fiscal Years 2020 through 2024.

ALTERNATIVES

1. Select another consultant to complete the work. This is not recommended since the bulk of the work is the preparation of the next five years of Group Annual Reports, a regulatory requirement, and since HDR has gained the expertise and effectiveness to efficiently complete the reports as a result of doing so over the last four years
2. Eliminate the as-needed work item. This is not recommended since it has been demonstrated that unforeseen technical expertise needs are periodically identified by the BACWA members and the regulators and without an omnibus contract in place, response would be severely restricted or delayed.

Attachments: Proposal/Scope of Work
Amendment # 6

Approved:

Date:

Lori Schectel, Chair
BACWA Executive Board

November 12, 2018

Mr. Dave Williams, PE
Executive Officer
Bay Area Clean Water Agencies

RE: HDR's Proposal for Additional Services to Support Compliance with the Nutrient Watershed Permit

Dear Mr. Williams:

Per your request, HDR is pleased to present this proposal to provide additional services for continued consulting services related to the Nutrient Watershed Permit, both the current permit and expected requirements under the second permit. More specifically, HDR would continue to coordinate and prepare the Group Annual Reports through the 2nd Watershed Permit and continue to present and support BACWA at various meetings through the 2nd Watershed Permit.

Our proposed scope of work, budget, and schedule is provided below.

Scope of Work

Task 1 – Preparation of Group Annual Reports

The purpose of this task is to prepare the Group Annual Nutrients Reports for 2019, 2020, 2021, 2022, and 2023.

Consultant shall coordinate with the discharger agencies to collect the previous year's nutrient loading data (July 1 – June 30th of the preceding year). Consultant will review and compile the data and will coordinate with the discharger agency to resolve data gaps and inconsistencies, if needed.

Consultant will prepare a draft appendix for each discharger agency and provide that to the agency for review and comment. Agreed upon data and results will then be compiled into the main report. The complete draft report will be provided to BACWA for review and comment. Comments will be incorporated and a final report will be provided by October 1st of each year for submission to the Water Board. It is assumed, that the format of the report, including trend analysis approach, will be the same as that employed for the most recent 2018 submittal.

Following submission of the final report (each year), HDR will support BACWA with preparation and presentation of materials at the Annual Retreat at Pardee and will subsequently present the information to BACWA's membership at the Annual Meeting.

HDR RESPONSIBILITIES:

- Prepare the Group Annual Report for 2019, 2020, 2021, 2022, 2023.
- Participate in one review meeting/presentation (per year) with BACWA to present draft Group Annual Report findings.
- Prepare and present materials at BACWA's Annual Pardee Retreat each year.
- Present at BACWA's Annual Meeting each year.

BACWA RESPONSIBILITIES:

- Provide a timely review of materials prepared as part of this task.

ASSUMPTIONS:

- This task will be billed on a lump sum basis.

Task 2 – As-Needed Services

The purpose of this task is to provide as-needed consulting services related to the 2nd Nutrient Watershed Permit. These services could include additional analyses, meeting participation and presentation, preparation of memos, etc. Consultant will coordinate with BACWA's Executive Director to define the scope and appropriate level of effort prior to task includes management and coordination of the work defined in this scope of services.

ASSUMPTIONS:

- This task will be billed on a time and materials basis.

Task 3 – Project Management

Consultant will manage the scope of work, schedule, and resources for the project. Consultant will coordinate with BACWA's Executive Director as appropriate.

HDR RESPONSIBILITIES:

- Management of the project, including project coordination, project schedule, and coordination of Quality Assurance/Quality Control (QA/QC) activities.
- Prepare regular invoices (invoices will be prepared as appropriate and at least twice yearly).
- Regular communication with BACWA.

ASSUMPTIONS:

- This task will be billed on a lump sum basis.

Compensation

We propose to perform the scope of work described for a not to exceed cost of \$225,000. Tasks 1 and 3 will be billed on a lump sum basis and Task 2 will be billed on a time and materials basis, as summarized in the table below. The expected level of effort for any services provided under Task 2 will be agreed upon prior to incurring costs. A rate schedule is provided in Attachment A for the time and materials services.

Task	Fee Basis	Task Value
Task 1 – Group Annual Report	Lump Sum	\$150,000
Task 2 – As-Needed Services	Time and Materials	\$50,000
Task 3 – Project Management	Lump Sum	\$25,000
Total		\$225,000

Schedule

HDR assumes the work described in this proposal will be performed through the 2nd Watershed Permit (through 2023). Each Group Annual Report will be submitted to BACWA prior to October 1st of each calendar year.

Thank you for the opportunity to present this proposal. We very much value our relationship with BACWA and we look forward to the opportunity to continue supporting you into the future. Please let us know if you have any questions, or require additional information.

Sincerely,
HDR ENGINEERING, INC.



Holly L.L. Kennedy, P.E.
Senior Vice President

MWF:pk/18-10021533

Attachment A

HDR Engineering, Inc.

Hourly Rate Schedule for Time & Materials Billing

Table of Hourly Rates for Time & Materials Billing

Billing Category	Staff Member	Hourly Rate (\$)
Principal Project Manager	Holly Kennedy	250
Technical Specialist 3	JB Neethling, Dave Clark	275
Technical Specialist 2	Mike Falk	240
Technical Specialist 1	TBD	210
Engineer 3	TBD	190
Engineer 2	TBD	170
Engineer 1	TBD	140
Project Controller	TBD	145
Project Coordinator	TBD	110
Technician 2	TBD	180
Technician 1	TBD	130

**AMENDMENT NO. 6
TO AGREEMENT BETWEEN
BAY AREA CLEAN WATER AGENCIES AND
HDR Engineering)
FOR
Services During the Term of the 2nd Watershed Permit**

This Amendment No. 6 is made this 16th day of November, 2018, in the City of Oakland, County of Alameda, State of California, to that certain agreement of September 9, 2014 by and between HDR Engineering) and Bay Area Clean Water Agencies, (BACWA) (the "Agreement") in consideration of the covenants hereinafter set forth.

1. BACWA and HDR Engineering agree to an increase of a not to exceed amount of \$225,000.00.
2. The expiration date for this portion of the agreement will be June 30, 2024.
3. The Scope of Work will be as described in the HDR Proposal of November 12, 2018.
4. Except as herein expressly modified, the Agreement will remain in full force and effect.

BAY AREA CLEAN WATER AGENCIES

By _____
Lori Schectel, Chair, Executive Board

Date November 16 2018

HDR Engineering

By _____

Date November 16 2018

Future Possible Dates for NST Meeting following BACWA Executive Board Meetings:

DATES in FY19	NOTES
Friday, December 21, 2018	Holiday & Committee Leader Lunch
Friday, February 15, 2019	
Friday, March 15, 2019	
Friday, April 19, 2019	
Friday, May 17, 2019	
Friday, June 21, 2019	

Nutrient Strategy Team Meeting

November 16, 2018

SFPUC, Hetch Hetchy Room, 13th Floor

525 Golden Gate Ave., San Francisco, CA

12:30 pm – 3:00 pm

(immediately following the BACWA Board Meeting)

1. Review of Discussion with the Water Board at Pardee
2. Briefing on the November 14, 2018 Meeting of the RWQCB
3. Briefing on Conference Call with WB permit writers
 - a. DIN vs. TN limits
 - b. Annual vs. dry season targets
 - c. Proposed 2024 planning level targets
 - d. Recognizing early actions
4. Next Steps in Providing Additional Information from the BACWA Members
5. Planning for Nutrient Trading
6. Proposed Schedule for the 2nd Watershed Permit

7. Schedule for Future NST Meetings

8. Summary of Action Items

9. Adjourn

Planning Subcommittee Meeting No. 35

November 9, 2018

2:00 pm – 5:00 pm

Water Board Offices

Chair: Ian Wren

Meeting Summary

Attendees: Tom M., David S., Ian W., Eric D. and David W.

1. Agenda Modifications: An item was added to the agenda regarding the retirement of the Water Board's (WB) Executive Officer (EO) and how that might impact the WB's participation on the Planning Subcommittee (PS). After a lengthy discussion, the conclusion was that regardless of who replaces the EO, at least in the short term, there would be little impact on the WB's participation in the NMS Steering Committee (SC) and PS.

An item was also added on the replacement of the SFEI Facilitator for the NMS. Options for meeting future facilitation needs were discussed. In the short term, the WB will serve as the Facilitator of the NMS SC meetings. Depending on how SFEI fills the vacant position, the PS will figure out how to handle facilitation duties in the long term.

2. Review Outstanding Action items: Action items were reviewed from the last SC meeting. All had been completed.

3. Science Program update

- a. **Staffing:** The Science Manager (SM) announced that he had hired a new modeler for a one-year term.
- b. **Other:** the need for the SM to provide detailed updates of the science program for each PS meeting was discussed. It was decided that upon creation of Science Plan (SP) 2.0 the PS will

not need that routine amount of detail, with perhaps a quarterly update being sufficient.

The WB asked if sediment was being addressed by the modeling efforts. The SM responded that one of the scientists in the program was pursuing modeling of sediment transport in the Bay. He also stated that the NMS is leveraging its efforts on modeling by coordinating with modeling efforts in the Delta.

The SM provided updates on several proposals that had been recently submitted.

4. Priority Updates

- a. **Report-Outs:** No report
- b. **Current Issues:** No report
- c. **NMS Calendar Review**

i. Review future SC and PS meeting schedules: The group discussed the need for future meetings. The next PS meeting was scheduled for November 28th from 9:00 to noon. Main topic will be finalizing the SC meeting agenda for December 14th. Future meetings agreed to are as follows:

- February 6th, PS meeting
- March 8th, SC meeting

At the February 6th meeting the PS needs to plan the calendar for 2019. It was agreed to keep the 2nd Friday of the quarter as the routine SC meeting date. **Action Item:**
As part of the PS update at the Dec SC meeting, discuss the future meetings for 2019

5. Other Updates

- a. **Discussion: USGS cruise status:** the group engaged in a lengthy discussion of what will happen to the Bay monitoring that had been undertaken by USGS once Jim Cloern retires in March 2019. It appears the USGS does not intend to replace Jim Cloern. One option for continuing the monitoring is to encourage USGS to continue funding the monitoring out of their Water Science Center program funds, but since this program does not have hard committed funding, that option may be a long shot. Another option is to get commitment for continued use of the USGS boat and have it housed at the Rhomburg Tiburon Center.

Given that the USGS conducted other than just monitoring that benefited the NMS, it would be important to figure out exactly what would be the minimum needed just to continue the needed NMS monitoring program. ***Action Item: The SM is to look at all the possible scenarios that could result in a cost-effective solution and estimate the cost for each.***

The BayKeeper offered to assist by conducting political outreach, stressing the importance of continuing funding for the monitoring program.

- b. **Discussion: Status and funding of coastal study:** As agreed at the last SC meeting, the coastal study will be proceeding. The SM will send BACWA a request to draw upon the FY 2020 science funding in the amount of \$200k to fund the coastal study.
- c. **Discussion: NACWA award.** It was decided to make an announcement about the award at the December SC meeting

- d. **Other:** No report

6. Planning the next Steering Committee meeting

- a. **Review of Action items from meeting:** Action items will be recorded in the minutes of the meeting
- b. **Next steps:** The main topic for the December SC meeting is the presentation of science Plan 2.0

7. Adjourn or address Parking Lot items

Parking Lot of Identified PS Future Agenda Items

- a. **Discussion: potential future off-site meeting @ USGS Menlo Park & boat visit**
- b. **Outreach to resource agencies re: DO objectives**
- c. **Brainstorming on future priorities for the PS (ALL)**
- d. **EPA nutrient criteria discussion**
- e. **Discuss concept of holding an annual forum on nutrients**

BACWA Nutrient Strategy Team Meeting

August 17, 2018

1. Attendees

<u>Name</u>	<u>Agency/Company</u>
Amanda Roa	Delta Diablo
Arvind Akela	SVCW
Bhavani Yerrapotu	Sunnyvale
Brian Henderson	SFPUC
Daniela Brandao	Representing San Mateo
Dave Richardson	RMC
David Senn	SFEI
Eric Dunlavey	San Jose
Greg Baatrup	Fairfield Suisun
Raymond Chao	USD
Tim Graydon?	City of Hayward
Amit Mutsuddy	San Jose
Lori Schectel	CCCSD
Jason Warner	Oro Loma
Sandeep Karkal	Novato
Steve Linsley	West County
Laura Pagano	SFPUC
Sandeep Sathyamoorthy	Black & Veatch
Chuck Wier	LAVWMA
Eileen White	EBMUD
Yu Yun Shang	EBMUD
Tom Hall	EOA
David Williams	BACWA
Lorien Fono	BACWA
Sherry Hull	BACWA

2. Discussion on BACWA's position on load caps

The ED gave a summary of the RWB's proposal to put language in the 2019 Fact Sheet specifying load caps in the 2024 permit. These caps would be based on 2018 loads, with a buffer for growth to ensure that agencies could meet these caps in 2024. The idea is that agencies would need to start planning how to reduce nutrients to offset growth after 2024. He then asked the group about how BACWA should respond, given the following three options as a starting point:

- a) The permit should not contain load caps at all, since that is why we are increasing funding for the science.

- b) There should be caps based on rated capacity and current/highest loads with a 20-30% buffer, but they should not be mentioned in the permit. This would allow agencies to begin planning without the 2024 permit writer being bound to those numbers.
- c) Same as “b” but put the numbers in the permit.

The group felt that option “a” was the preferred alternative. However, if load caps are discussed, agencies should get credit for current recycled water projects, since they don’t have control over reduced demand in the future from customers. Additionally, food waste programs should be given consideration.

3. Credit for early actions

The group would like a scheme whereby a certain number of permit terms of regulatory certainty would be granted for early actions. The thresholds for early actions should be based on the levels of load reduction expected from optimization, sidestream treatment, and level 2 and level 3 upgrades.

ADJOURNMENT

Re-inventing the Nation's Urban Water Infrastructure (ReNUWIt)



ReNUWIt's IAB Meeting

**Richard G. Luthy, Stanford Univ.
Director**



ReNUWIt IAB meeting, Oct 18-19, 2018

IAB Meeting Agenda



Today: Welcome (3:00) Mike Wehner

Poster session (3:30)

Reception/Dinner (5:30)

Talk (7 PM, John Helminski)

Tomorrow: 8 AM kick-off M. Plumlee welcome

Potable reuse (8:10-10:00)

Break (10:00)

Prado wetlands update (10:30-11)

Test beds at CSM (11-11:30)

What have we learned (11:30-noon)

ReNUWIt IAB meeting, Oct 18-19, 2018

2

Introduction

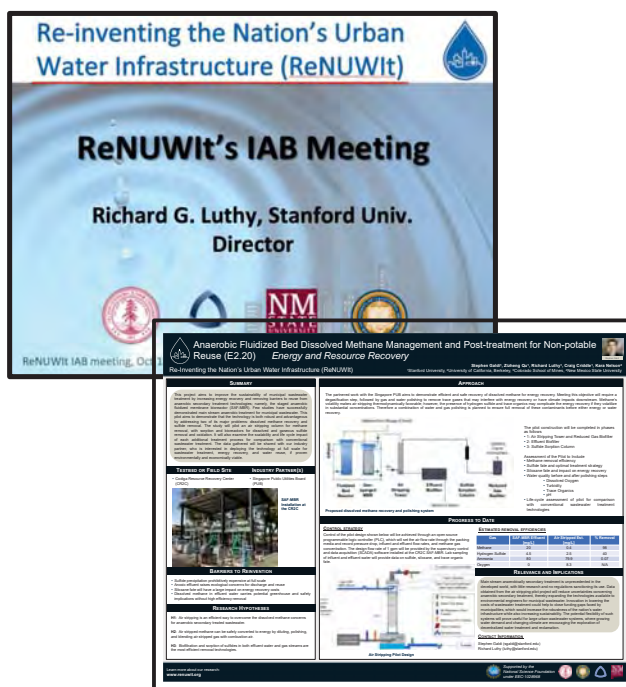


Kara Baker, new research & industrial liaison officer.
Her first IAB meeting.

ReNUWIt IAB meeting, Oct 18-19, 2018

3

Presentations and posters



All materials available after meeting from ReNUWIt web site (password protected)

- Presentations
- Posters
- Kara Baker can assist with access

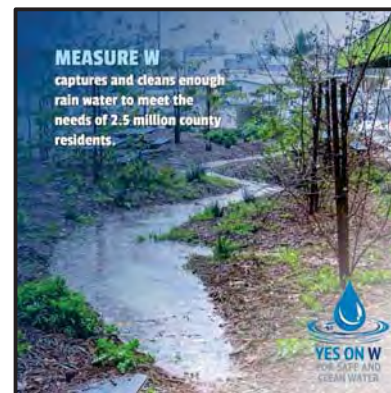
ReNUWIt IAB meeting, Oct 18-19, 2018

4

Water Challenges



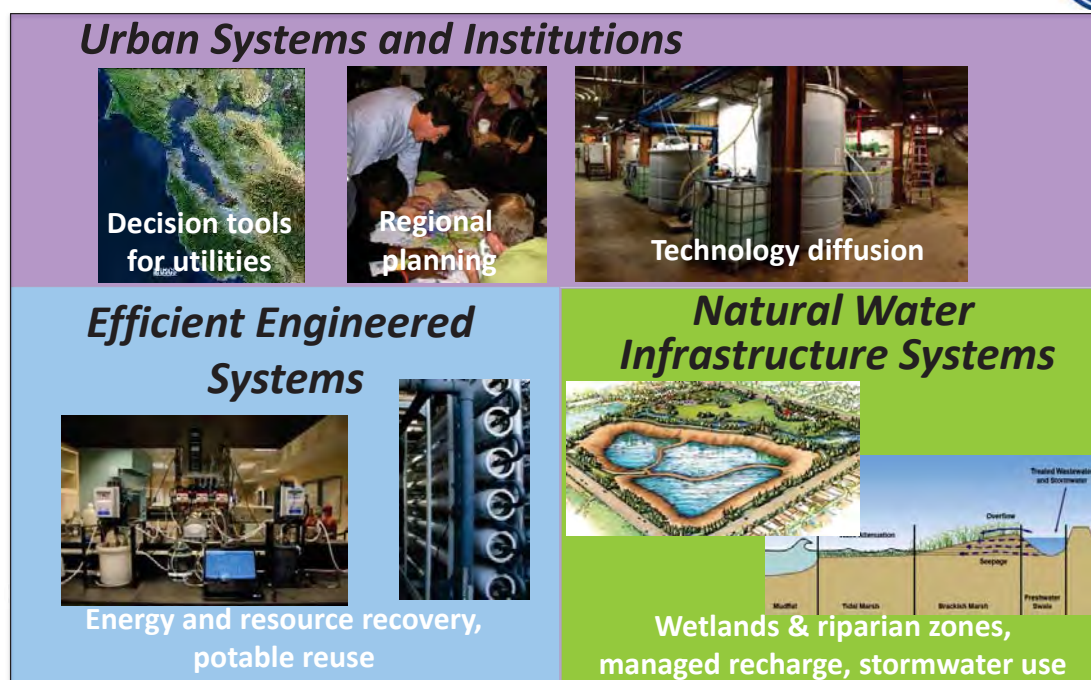
- Water Shortages
- Old Infrastructure
- Climate Change
- **Revenue & Finances**
- Water for Ecosystems



ReNUWIt IAB meeting, Oct 18-19, 2018

5

Systems-level Vision



ReNUWIt IAB meeting, Oct 18-19, 2018

6

ReNUWIt (at a glance)



Research—forward looking thrusts

Systems-level thinking—expanding our reach

Testbeds—taking innovation to the field

IAB partners—facilitating innovation

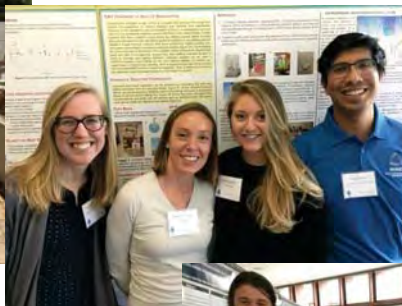
Workforce development—impactful at all levels

Diversity & inclusion—building together

ReNUWIt IAB meeting, Oct 18-19, 2018

7

NSF Site Visit May 2018: good outcomes



ReNUWIt IAB meeting, Oct 18-19, 2018

8

NSF applauds IAB engagement



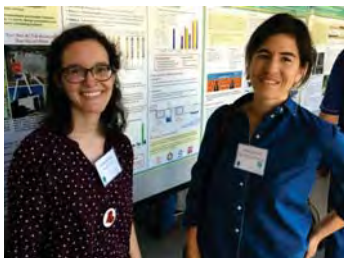
• Recognition of IAB support

“The ERC has an active IAB, and the IAB members and their companies are involved in much of this research.”

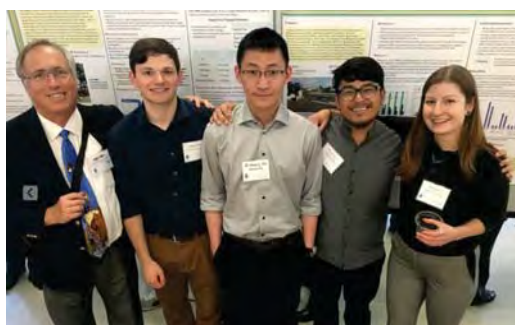
“There are expectations that some of the students trained through the Center will be leaders of tomorrow in the industry.”



NSF comments re DPR



“The recent focus on direct potable reuse will potentially impact the water industry.”



“Research conducted at the systems level addresses important questions related to integration of economic, social, and environmental metrics into decision-making processes relevant to water infrastructure.”



- ReNUWIt IAB meeting, Oct 18-19, 2018

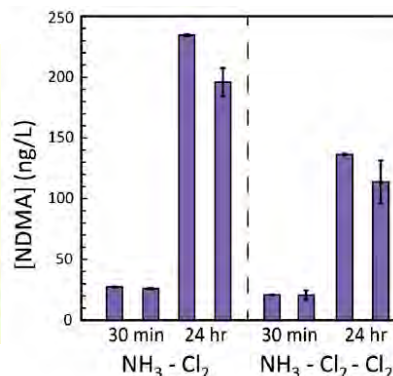
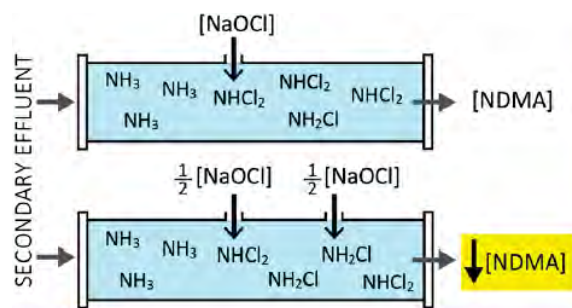
Research nugget (Bill Mitch)

Disinfection byproducts (IPR & DPR)



OCWD, SVCW, LASAN, Jacobs, Trussell Tech.

- Pilot-scale treatment of secondary effluent with chloramines upstream of RO
 - Distribution the injection of chlorine into ammonia-containing water decreases NDMA formation by reducing dichloramine
 - Furst et al., ES&T Lett, 2018



ReNUWIt IAB meeting, Oct 18-19, 2018

13

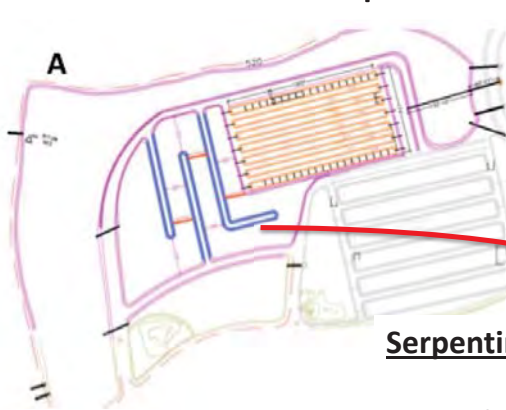
Research nugget (Josh Sharp)

Prado wetlands tour and update



OCWD, USGS, US Army

- Biowall concept for open water wetlands



Serpentine "biowall" wetland

Denitrifying woodchips
Minimize potential short circuiting
Reduce maintenance costs



ReNUWIt IAB meeting, Oct 18-19, 2018

14

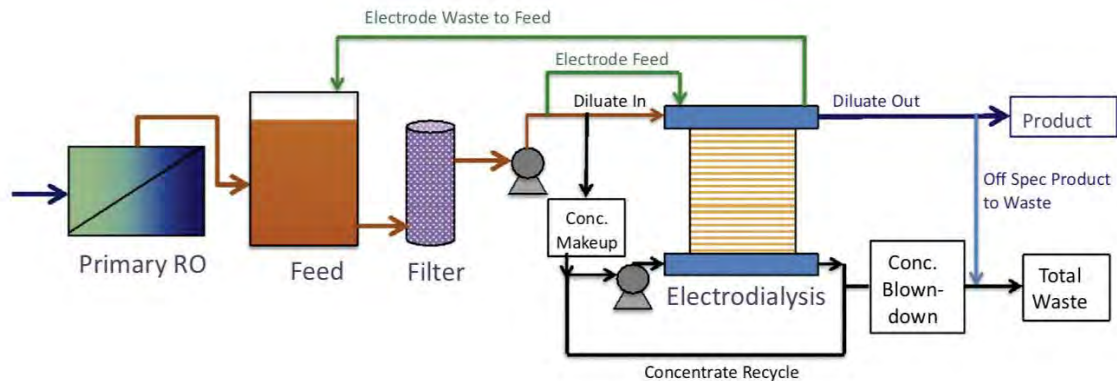
Research nugget (Pei Xu)

Electrodialysis & water reuse



El Paso, Carollo, Suez, US BOR

- Concentrate treatment & enhanced water recovery



The electrodialysis system achieved additional 55% of water recovery by treating RO concentrate, enhancing the overall water recovery from 82.5% of the primary RO to 92%. (Separation & Purification Technology, **2018**, 207, 396-405)

ReNUWIt IAB meeting, Oct 18-19, 2018

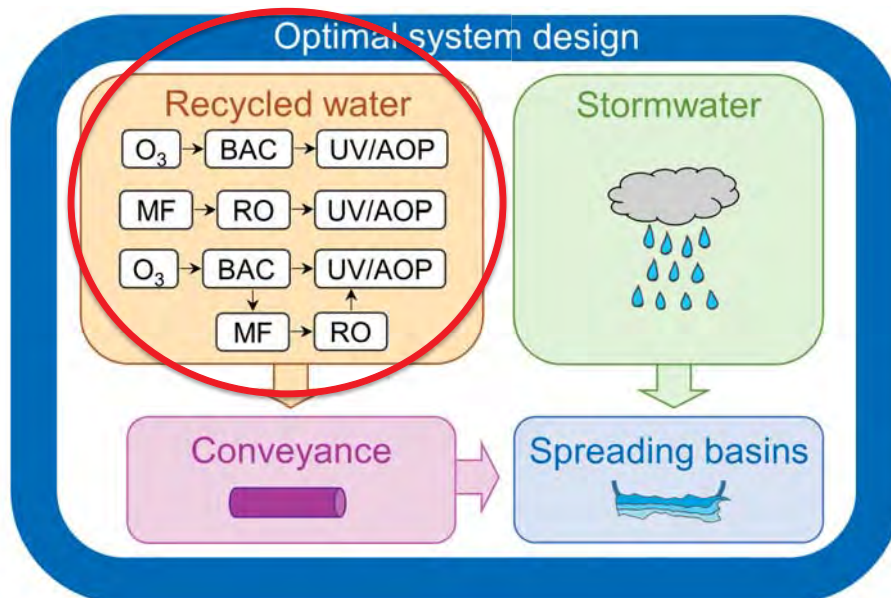
15

Research nugget (Jon Bradshaw)

Combined stormwater/recycled water



LADWP, LASAN, MWD, SCVWD, City of Fresno



ReNUWIt IAB meeting, Oct 18-19, 2018

16

Water Challenges



- Water Shortages
- Old Infrastructure
- Climate Change
- Revenue & Finances
- **Water for Ecosystems**

HOME / NEWSROOM
**STATE WATER BOARD CONCLUDES
TWO-DAY HEARING ON BAY-DELTA
PLAN, POSTPONES ACTION TO NOV. 7**
BY HEATHER ENGEL | AUG 23, 2018 | WATER NEWS

US & WORLD // SCIENCE
**Plan to revive rivers pits SF against
California**

SF Chronicle, Oct 14, 2018

ReNUWIt IAB meeting, Oct 18-19, 2018

17

Diverse water supply portfolio



- Regional planning and “One Water Network” concept
- Alignment on merits of diverse sources of local water
- Accelerate efforts for sustainable water with broad support
- ReNUWIt partnering on focused workshops on stormwater capture and DPR



Bay Area Regional Partnerships for Sustainable Water: Part 1, Potable Reuse

March 9, 2018

ReNUWIt IAB meeting, Oct 18-19, 2018

18

Looking ahead—



- Continued research at test-bed scales
- Tech diffusion workshops
- High-level forward-looking papers
- DOE water hub initiative
- One water network

Outcome from this meeting—advice on:

- Sustaining initiatives post NSF
- Improving our impact
- Making a difference in urban water



Clean Water Summit Partners
1225 L Street, Suite 595
Sacramento, CA 95814
p: 916.446.0388

Summit Partners:
- Bay Area Clean Water Agencies (BACWA)
- California Association of Sanitation Agencies (CASA)
- Central Valley Clean Water Association (CVCWA)
- California Water Environment Association (CWEA)
- Southern California Alliance of Publicly Owned Treatment Works (SCAP)

November 8, 2018

Felicia Marcus
State Water Resources Control Board (State Water Board)
1001 I Street, 25th Floor
Sacramento, CA 95814

Subject: Extension of Comment Deadline for Draft Toxicity Provisions

Dear Chairwoman Marcus:

The Clean Water Summit Partners appreciate the opportunity to comment on the State Water Board's proposed toxicity provisions. The Clean Water Summit Partners ("Summit Partners") are the state and regional wastewater associations committed to working together on issues of critical importance to our collective memberships. The Summit Partner associations include the Bay Area Clean Water Agencies (BACWA), the California Association of Sanitation Agencies (CASA), the California Water Environment Association (CWEA), the Central Valley Clean Water Association (CVCWA), and the Southern California Alliance of Publicly Owned Treatment Works (SCAP). Together, our member agencies provide wastewater collection, treatment, and water recycling services to millions of Californians.

Currently, comments on the proposed toxicity plan are due on December 7, 2018, less than one month from today and seven business days after the board hearing/workshop on November 28, 2018. Unfortunately, this is insufficient time to comment on the plan itself as well as the hundreds of pages of supporting documents that include staff reports, environmental documents, economic analysis, and other addenda that were released on October 19. The Summit Partners are also struggling to simultaneously respond to the recently released technical materials (also hundreds of pages in length) in support of another policy of significant interest to our sector, the biostimulatory substances and biointegrity policy. Those comments are also due in early December in advance of the Science Panel meetings on December 12 and 13. In addition, should the Water Board proceed with a hearing/workshop on November 28, we would have an extremely limited window in which to incorporate any feedback or thoughts from staff, Board members, or other presenters at that meeting into our formal written comments.

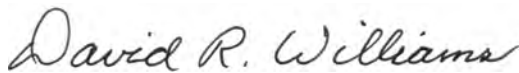
In consideration of the above, and the November and December holidays, we request an extension of the comment period by at least 45 days to allow for adequate responses and time to engage with State Water Board staff on this issue. While the recent workshops were helpful in understanding at a high-level what the plan is intended to do, there are still many nuances that need to be understood and members of the stakeholder community are analyzing the impact of the proposed toxicity provisions, which we doubt can be completed before the December 7 deadline.

The Summit Partners also request that the State Water Board consider postponing its hearing/workshop currently scheduled for November 28 to a future meeting. The POTW community is very interested in putting together a more comprehensive and meaningful presentation for Board members highlighting our primary issues with the proposed provisions, but it is posing a challenge for our sector to respond in a timely manner with the numerous pending policy proposals, and the November hearing less than three weeks away.

We look forward to working with the State Water Board in the coming months to maximize the value of the toxicity provisions.

Thank you for your consideration.

Sincerely,



David Williams
BACWA Executive Director



Roberta L. Larson
CASA Executive Director



Debbie Webster
CVCWA Executive Officer



Elizabeth Allan
CWEA Executive Director



Steve Jepsen
SCAP Executive Director

cc: Karen Mogus
Rebecca Fitzgerald
Zane Poulson

BACWA - BAAQMD Annual Meeting Summary

Date: August 6, 2018
Time: 10 AM - 2 PM
Location: BAAQMD Office - 375 Beale Street, San Francisco, CA 94105
Attendees: Simrun Dhoot, Idania Zamora, Carol Allen, Brenda Cabral, Flora Chan, Alfonso Borja, Derrick Tang, Brian Butler, Lucian Go, and David Joe (BAAQMD); Dave Williams (BACWA ED); Lorien Fono (BACWA); Laura Pagano and Meei-Lih Ahmad (SFPUC); Lori Schectel, Randy Schmidt, and Rita Cheng (CCCSD); Ron Hipkiss (FSSD); Tim Grillo (USD); Norm Domingo (SVCW); Samantha Engelage and Dan Patten (Palo Alto); Jason Nettleton and Jose Guerrero (San Jose); Chris Dembiczak (EBMUD); Cameron Kostigen-Mumper (Sunnyvale); Heather Johnson (Santa Rosa); Amanda Roa (Delta Diablo); Leah Walker and Jason Beatty (Petaluma); Brian Whitaker (Jacobs); Courtney Mizutani (Mizutani Environmental); Sarah Deslauriers (Carollo)

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

1) Basin-Wide Methane Strategy

Idania Zamora (BAAQMD staff) presented an update on the Basin-Wide Methane Strategy (presentation attached). BAAQMD supports the state's target to reduce methane by 40% by 2030 (relative to 2013 levels) and has the authority to regulate methane (not carbon dioxide, however, due to AB 398). Their inventory shows methane as 10% of the Bay Area's total greenhouse gas emissions, and wastewater is estimated to account for only 6% of that methane. For comparison, landfills represent 51% of the Bay Area's methane. BAAQMD also supports the state's organics diversion goals in effort to achieve methane reductions. While BAAQMD would like to achieve methane reductions, they do not want to see a net increase in greenhouse gas emissions related to projects diverting organic waste from landfills. BAAQMD also does not want to be overly restrictive on stationary sources, causing materials to be transported further away leading to an increase in truck traffic and related emissions. The Methane Expert Panel will reconvene in fall to discuss these items.

BAAQMD is developing (new) Rule 13-1: Significant Methane Releases. Public workshops are anticipated to be scheduled in late August/September, with the rule anticipated to go to the Board in late 2018. Currently, there is discussion of limited exemptions for repair and/or maintenance events (including digester cleaning operations). BAAQMD would like to meet with POTWs again in the next month. BACWA has submitted summary information on anaerobic digester cleaning procedures to help inform development of this rule. BAAQMD contact for this rule development is William Saltz. Comments may be submitted at any time.

BAAQMD is planning the development of new Rule 13-2: Organic Material Handling. Public workshops are anticipated to be scheduled in fall, with the rule anticipated to go to the Board in 2019. This rule (includes anaerobic digestion) is expected to have three parts: 1) recordkeeping

and reporting (consistent with AB 901), 2) registration and permitting, and 3) best management practices. Monitoring requirements and methods will be discussed – BAAQMD wants to work jointly with stakeholders. Workshops are anticipated in fall 2018. BAAQMD contact for this rule development is Robert Cave.

BAAQMD is planning the development of a new Rule 13-3: Composting Operations. Public workshops are anticipated to be scheduled in fall, with the rule anticipated to go to the Board in 2019. This rule is expected to be process based. It may be developed in conjunction with Rule 13-2. BAAQMD contact for this rule development is Robert Cave.

Stakeholder input early is most helpful.

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

Carol Allen (BAAQMD staff) presented an update on Rule 11-18 (presentation attached). Carol reviewed the flow chart for implementation of the rule and presented the draft Implementation schedule. She also confirmed POTWs are in Phase II. BAAQMD will begin data review in mid-2019 and health risk assessments in 2020. Risk reduction plans would then be due within 2021-2024. Final implementation of risk reduction measures would follow in 2026-2029 (for a 5-year schedule). Best Available Retrofit Technology for Toxics (TBARCT) requirements will be coordinated between Rule 11-18 and AB 617, which requires air districts to adopt an expedited schedule for implementation of BARCT at industrial sources subject to CARB's Greenhouse Gas Cap-and-Trade requirements. A draft TBARCT workbook document is under development and being review by the Technology Implementation Office. TBARCT has a cost effectiveness consideration that TBACT does not have; there is no cost effectiveness value set yet, especially for government agencies.

Last year, Virginia Lau (BAAQMD) reached out to several POTWs for early participation in data gathering. The BAAQMD planning group is looking to expand this data gathering to all POTWs to review and update data. BAAQMD will send a request out to facilities to verify data prior to screening under Rule 11-18.

Carol recommended that POTWs update their flow characteristics now, in advance of the screening process. This can be done in conjunction with the annual renewal notice associated with the billing from BAAQMD. POTWs should contact their permit engineer to make sure the data for their facility is correct. Some influent data is still very old and does not reflect advances in source control or changes in influent characteristics. Carol stated the toxicity weighting indicated that carbon tetrachloride, perchloroethylene, and chloroform were the primary compounds expected from liquid treatment processes at POTWs that pose a risk.

Randy Schmidt (CCCSD) presented a summary of Central San's experience performing a recent Health Risk Assessment (presentation attached). Prior to the modelling work required, there was extensive data verification of physical source characteristics, as well as emissions data. The first draft baseline HRA took approximately six (6) months at a cost of approximately \$100,000. Central San is currently doing QA/AC on the draft of the baseline HRA.

Meei-Lih Ahmad (SFPUC) discussed SFPUC's \$6.9 billion Capital Improvements Program and expressed concern regarding the timing of necessary program improvements and regulations. For example, the planning of the Southeast Plant started 4 years ago and the design is at 95% now. SFPUC endeavored to select appropriate technologies, but the construction is not expected to be complete until 2024. Changing regulations are challenging and potentially expensive to comply with if they did not exist at the start of the planning horizon.

3) Technology Implementation Loan Program

Derrick Tang (BAAQMD staff) from the Technology Implementation Office (TIO) provided information on low interest loans available for technologies that reduce greenhouse gas emissions. Low interest loans with extended terms and technical assistance with engineering evaluation are available to "MUSH" borrowers (municipalities, universities, schools, and hospitals). As part of the upcoming Global Climate Action Summit (taking place in San Francisco), BAAQMD will host a [Climate Tech Marketplace booth on September 13th](#) to connect technology providers with prospective customers.

4) AB 617 Implementation Update

David Joe (BAAQMD staff) presented an overview of AB 617 focused on the Community Air Protection Program and expedited TBARCT. West Oakland (developing an action plan) and Richmond (developing a monitoring plan) have been identified as active ("selected") communities and will develop their plans over the next year. CARB will approve selected communities statewide in October.

For BARCT Implementation within selected communities, AB 617 requires an expedited schedule be in place by January 1, 2019 and implementation be complete by December 31, 2023. The BARCT requirements do not apply to sources that have implemented BARCT since 2007. BAAQMD is focused on Cap-and-Trade facilities that have not updated control technology. There are 19 Cap-and-Trade facilities in BAAQMD and they are primarily petroleum refineries. Carol noted BAAQMD is looking to harmonize reporting requirements. BAAQMD planning (Virginia Lau and Phil Martin) is working directly with CARB on reporting, and is making changes to BAAQMD internal processes, so that all reporting can go through BAAQMD.

5) Standard Permit Conditions and Temporary Pilot Test Projects

Alfonso Borja (BAAQMD staff) presented a summary on temporary permits for pilot projects. Under current rules, the application process for a pilot project is the same as the process for a permanent installation, but the temporary permit is only valid for 3 months. Randy Schmidt noted that SCAQMD has a shortened process for temporary projects. Carol Allen suggested that the next time Rule 2-1 (General Requirements) is opened, this topic could be pursued, but current rules do not allow for an expedited process or longer time frame.

Leah Walker (Petaluma) summarized recent experiences where standardized permit conditions would have been helpful. Leah reviewed the public bidding process, and noted that public contracting law requires competitive bidding, which means the applicant does not know precisely what equipment will be selected until after the bid award. For a recent boiler project, when special permission to sole source equipment was obtained from the lawyers, it still took ten months to obtain an authority to construct (ATC) permit. Additionally, once the ATC was

issued, there was no provision to allow for releases of small amounts of digester gas during construction. During construction, it was necessary for a piping connection to be made taking approximately two hours to complete. Petaluma checked in with BAAQMD and determined it was acceptable to make the connection. Subsequently, the plant received a notice of violation and was also notified the two-hour release would need to be permitted. However, the length of time it would take to go through the permitting process would result in construction delays and cost overruns. Two key points from this experience: 1) There is a need to streamline the permitting process; and 2) public contracting rules must be considered – equipment is not specified at the time the permit application process begins. Brenda Cabral noted that BAAQMD is willing to evaluate up to three different engines during the permit process.

Following the official end of the meeting (after 2 pm), there was discussion of standard permit conditions for POTWs. Santa Rosa noted that they have a monitoring condition that is not based on a limited emission that needs to be changed. Brenda agreed and offered that the permit engineer make the change. Carol Allen suggested that “alternate operating scenarios” (such as construction and maintenance) be included in the permit discussion, rather than focusing solely on “typical operations.” Brenda stated staff is open to considering “construction only” conditions, as well as offered to consider updates to the permit handbook by BACWA members.

- 6) **Action Item:** POTWs need to update influent characteristics (influent concentrations and flow rates) as part of their annual update to BAAQMD.

SUMMARY OF PROPOSED BOARD POLICIES AND PROCEDURES									
POLICY #	ADMINISTRATIVE POLICIES	PROCEDURE #	STAFF PROCEDURES (if needed)	DATE FOR INITIAL REVIEW	APPROVAL DATE				
BAP 1.01	BACWA Representation	101		Nov	Dec				
BAP 1.02	Committees	102	Committee Responsibilities	Apr	May				
BAP 1.03	Conflict of Interest	103	Submittal of Conflict of Interest Forms	Apr	May				
BAP 1.04	Document Retention Policy	104	Filing and Purging of Documents	Jul	Aug				
BAP 1.05	Access by Professionals and Vendors	105	Communication with Membership	May	Jun				
BAP 1.06	Succession Planning	106	Updating Succession Plan	Feb	Mar				
BAP 1.07	Travel Policies (6/07)	107	Expense Reimbursement	Jun	Jul				
BAP 1.08	Website Policies	108	Updating Web Site	Mar	Apr				
BAP 1.09	Role of ED, AED and RPM	109	Key Responsibilites of Contract Staff	Feb	Mar				
	FINANCIAL POLICIES								
BFP 2.01	Class of Membership Policy (12/16)	201	Requesting Membership	Feb	Mar				
BFP 2.02	Investment Policy (10/07)	202	Coordinatiion with EBMUD Accounting	May	Jun				
BFP 2.03	Contracting Policy (11/13)	203	Entering into Contracts	Dec	Feb				
BFP 2.04	Reserve Policy	204		Nov	Dec				



POLICY NUMBER: BFP – 2.04

NAME OF POLICY: Financial Reserves

DATE APPROVED:

LAST REVISED:

PURPOSE: This policy set the target reserves for the various BACWA funds (operations (BACWA Fund), legal, (Legal Fund), and regulatory activities (Clean Bay Collaborative Fund)). The level of reserves is important since it impacts dues, fees and surcharges that BACWA collects from its members.

RESERVE POLICY

The amount of Reserves to be held for each Fund will be formally approved by the BACWA Executive Board through the Board Authorization Request process. The Reserve amounts will be reviewed by the BACWA Executive Board every two years and modified as needed. The intent is for the reserve level in each fund to meet the target level at the end of the Five Year BACWA Financial Plan which is updated on an annual basis. The target reserves for each fund are as follows:

BACWA Fund: Will maintain Reserves in the amount of three months Operating Expenses based on the fiscal year in which the amount is determined.

Legal Fund: Will maintain Reserves in the amount of \$300,000.

CBC Fund: Will maintain Reserves in the amount of \$1,000,000



BACWA BOARD POLICIES

POLICY NUMBER: BAP – 1.01

NAME OF POLICY: BACWA Representation

DATE APPROVED:

LAST REVISED:

PURPOSE: A policy outlining the selection, approval, and responsibilities of BACWA Members representing BACWA to other external Committees, Boards, Workgroups and Projects.

POLICY

BACWA members often serve as volunteers on external committees, boards, workgroups and projects. When opportunities arise to represent BACWA, interest on the part of the membership will be solicited. In some cases, the Board will formally select the representative (e.g. Nutrient Management Strategy Steering Committee, Aquatic Science Center) while in other cases a BACWA Committee will choose a representative. The Board will be notified of a change in representatives by the Executive Director and through the periodic review of the BACWA Succession Plan, will confirm all representatives.

BACWA representatives have the following responsibilities:

1. Keep abreast of key activities, events, and information on their particular issues
 2. Attend important meetings, hearings, seminars, etc. on the issue whenever held
 3. Keep the BACWA Board informed on needed input being sought on an issue
 4. Get direction from the Board on the BACWA input on an issue in advance of providing the input
 5. Report back to the Board after providing the input and/or participating in the activity on the issue
-



DRAFT

Executive Board Special Meeting Agenda

SF Bay Regional Water Board / BACWA Executive Board Joint Meeting

December 3, 2018 10:00 AM -12:00 PM

SF Bay Water Board, 1515 Clay Street, St. 1400 Oakland, CA

ROLL CALL AND INTRODUCTIONS – 10:00

PUBLIC COMMENT – 10:05

DISCUSSION/OTHER BUSINESS- 10:10

Topic	Goal	Time
1. Nutrients a. Optimization and Upgrade Studies b. 2 nd Watershed Permit	<ul style="list-style-type: none">• Feedback from 11/14 presentation to the Board• Agreement on key issues on 2nd WS Permit:<ul style="list-style-type: none">• How to calculate planning level targets• How to recognize early actors in permit• What constituents will be in MRP• Language about Regional Study	10:15
2. Toxicity Provisions	<ul style="list-style-type: none">• BACWA Comments to State Water Board	11:30
3. Wetlands	<ul style="list-style-type: none">• What are the next steps in the Wetlands Policy Update?	11:35
4. Risk Reduction	<ul style="list-style-type: none">• BACWA has signed a contract with CIEA and APA to perform risk reduction work• Will schedule presentation for RWB staff in 2019	11:45
5. CECs update	<ul style="list-style-type: none">• Finalize White Paper approach	11:50
6. Annual meeting	<ul style="list-style-type: none">• Regulator speakers at Annual Meeting	11:55

ADJOURNMENT

Sherry Hull

From: Sherry Hull
Sent: Monday, November 12, 2018 3:01 PM
To: Sherry Hull
Subject: dual track for lab certification
Attachments: V10_SCJ ELAP 11_08_18 Response.docx

From: Stephen Jepsen [<mailto:sjepsen@dudek.com>]
Sent: Thursday, November 8, 2018 3:58 PM
To: Adam Link (alink@casaweb.org) <alink@casaweb.org>; jvoskuhl@casaweb.org; eofficer@cvcwa.org; Josie Tellers <JTellers@cityofdavis.org>; David Williams <dwilliams@bacwa.org>; Lorien Fono <lfono@bacwa.org>; Arsem, Nirmela (nirmela.arsem@ebmud.com) (nirmela.arsem@ebmud.com) <nirmela.arsem@ebmud.com>; Elizabeth Allan (eallan@cwea.org) <eallan@cwea.org>; Sara Burke (sara@oroloma.org) <sara@oroloma.org>; abaylor@socwa.com
Subject: ELAP dual accreditation letter

Hello Summit Partners and ELAP team,

In support of our continued effort to influence ELAP to embrace a dual track lab accreditation system we have drafted the attached letter regarding workshops to create a California Quality Management System (QMS).

This is version 10.1 of the letter with many stakeholders contributing comments and suggestions. I expect there will be a few more iterations before we are done. Amber Baylor is the author with contributions from Sara Burke (CWEA Lab Committee), Josie Tellers (CWEA lab committee and CVCWA lab committee), Debbie Webster (CVCWA), Nirmela Arsem (BACWA lab committee) and Jared Voskuhl (CASA).

As many of you heard on the CASA RWG call today, full TNI compliance requires a .5 to 1.5 Full Time Employee (FTE). For a public agency, this is a fully burdened cost \$100,000 to \$300,000 every year.

One of the challenges is that it appears ELAP staff don't understand that the vast majority of the QMS they seek already exists within the Standard Methods and Title 22. This is part of the education process we are so desperately trying to achieve with ELAP staff. We think if we can actually have the opportunity for thorough dialogue and education with the ELAP team we can convince them that a dual system will function quite well and address their concerns.

At this point, as the risk of speaking out of turn, CWEA lab committee and CVCWA are in support. SCAP is in support.

Nirmela is bringing the letter to the BACWA lab committee.

Thanks for your consideration.

Please reach out to Amber Baylor or myself with questions,

Steve Jepsen

Executive Director

Southern California Alliance of POTWs

605 Third Street, Encinitas, CA 92024

T: (760) 479-4112

M: (760) 415-4332

F: (760) 479-4881



Sherry Hull

From: Sherry Hull
Sent: Tuesday, November 13, 2018 9:38 AM
To: Sherry Hull
Subject: dual track lab certification
Attachments: V10_SCJ ELAP 11_08_18 Response.docx

Importance: High

From: Stephen Jepsen [<mailto:sjepsen@dudek.com>]
Sent: Tuesday, November 13, 2018 9:11 AM
To: Elizabeth Allan (eallan@cwea.org) <eallan@cwea.org>; Adam Link (alink@casaweb.org) <alink@casaweb.org>; eofficer@cvcwa.org; Bobbi Larson (blarson@casaweb.org) <blarson@casaweb.org>; Sara Burke (sara@oroloma.org) <sara@oroloma.org>; Josie Tellers <JTellers@cityofdavis.org>; David Williams <dwilliams@bacwa.org>; Lorien Fono <lfono@bacwa.org>; Arsem, Nirmela (nirmela.arsem@ebmud.com) (nirmela.arsem@ebmud.com) <nirmela.arsem@ebmud.com>; abaylor@socwa.com
Subject: ELAP: CA QMS Workshops
Importance: High

Hi Summit Partners and Lab Committee leaders:

Regarding the draft letter (attached for reference) intended to encourage ELAP to embrace the concept of a dual accreditation system (TNI and CA QMS) and the message that we intend to host northern and southern California workshops, there have been some questions regarding the logistics of the workshops. My responses to the questions are below. Please let me know if my assumptions are correct.

- The workshops will be at no cost to our water/wastewater lab community, other California public accredited laboratories would also be welcome.
- The cost to the host (SCAP for SoCal) (CVCWA and/or BACWA for NorCal) would be food such as coffee and bagels followed by a box lunch.
- Workshops venues would be provided by one of our member agencies.
- The workshops are intended to provide greater clarity to what documents guide lab testing quality. We are hoping ELAP staff or maybe even a State Water Board member will attend the workshops. The first lesson is that TNI is only an administrative umbrella over the already existing and used lab quality control methods namely Title 22, Health and Safety Code and 40 CFR 136 & 141.

As we have seen ELAP seems to be committed to a TNI only system. The limited dialogue we have had with ELAP indicates they don't completely understand that lab quality is controlled by the methods that already exist and TNI does not alter or enhance these methods. Furthermore, TNI does not improve lab result quality, the quality of results is controlled by the methods that already exist. Based on feedback from our October 2 testimonies, the State Water Board members are not convinced a TNI only system is the right way to go. We have a small opening to alter the course of ELAP's TNI only approach.

SCAP is committed to working this opening for our lab members by hosting the planned SoCal workshops. Amber and SOCWA are committed to organizing speakers for both north and south workshops. Amber and I recommend that north workshop be in the Sacramento area so it is convenient for State Water Board and ELAP representatives to attend. Is CVCWA sharing this commitment for the NorCal workshops? What is BACWA's position on the workshops?

The target audience for the workshops are the upper level/exec managers. To date the TNI trainings have been focused on the lab staff and this is not our intent to focus training on those staff members.

The workshops will cover the following:

1. What is a Quality Management System?
2. What are the regulatory drivers associated with compliance that accredited laboratories must comply with?
3. How do laboratories meet the regulatory mandates they are charged with?
4. How many FTEs are needed to meet the requirements under the current CA QMS?
5. What are the other internal institutional needs for scientific personnel?
6. What are the new regulatory drivers that could require an increase in FTEs in the laboratory?
7. How many FTEs are needed to implement and maintain a TNI accreditation system?

The point here is that moving the knowledge into the hands of the people that will be charged with budgeting for more FTEs to handle the new requirements. Once those people understand the ramifications, it will be a hard press to accept the proposed regulations. Efficiency over administrative burden is key. The lab community is the only community actively engaged in the merits/challenges of a single TNI system and it is time that managers and general managers who have to justify a new position for regulations sake are apprised and educated.

Thanks,

Steve Jepsen

Executive Director

Southern California Alliance of POTWs

605 Third Street, Encinitas, CA 92024

T: (760) 479-4112

M: (760) 415-4332

F: (760) 479-4881



November 7, 2018

Felicia Marcus, Chair
State Water Resources Control Board (State Water Board)
1001 I Street, 25th Floor
Sacramento, CA 95814

Subject: October 2, 2018 State Water Board Meeting – Response to Informational ELAP Update & Proposal for California Quality Management System Training

Dear Chairwoman Marcus:

Thank you for the opportunity to speak on Agenda Item No.7 (ELAP Annual Update) at the October 2, 2018 State Water Board meeting. The coalition of speakers took your comments to heart as we petitioned the State Water Board for a dual-track laboratory accreditation system. A point you noted that resonated with the speakers was the absence of our proactive assistance in and communication about the work completed thus far in a Quality Management System (QMS) for the prospective dual-track system. With ELAP transitioning into the State Water Board from the Department of Public Health, we understand the tension you must feel between ensuring that professional conditions in laboratories across the state are standardized, while minimizing the potential adverse fiscal impact upon laboratories for the protection of public health and the environment. To that point, as Utility Managers, Laboratory Specialists, and Industry Group Representatives, we affirm our role in assisting you, your colleagues on the Board, and ELAP staff, in developing and improving laboratory data management.

Technical Management Workshops and California QMS Development

A dual-track accreditation system is envisioned under the Environmental Laboratory Accreditation Act, Health and Safety Code § 100829(a), and Assembly Bill 1438 (2016, Committee on Environmental Safety and Toxic Materials), which authorizes the State Water Board to "[o]ffer both state accreditation and TNI accreditation." A QMS is the management system that governs laboratory data quality for both laboratory personnel and ELAP. The majority of water laboratories in California are producing high quality data, as evidenced in their Annual Consumer Confidence Reports that provide transparency and accountability to the public. The current California QMS is based on what is already working in California, which is in adherence to the Federally approved methods published in 40 CFR Part 141 and Part 136. Professional leaders in our industries have established quality assurance and quality control procedures following these regulations, and California Title 22 Division 4, Chapter 19, currently in place, produces data of known quality from laboratories of varying sizes.

However, Utility Managers need to be apprised of the quality management systems that are created for production of high quality data. To support this, we are planning technical management workshops ~~to~~will be held in Southern California and Northern California over the next year. For all the workshops, we will extend invitations to State Water Board members, their staff, and to ELAP staff.

These workshops will provide the quality assurance management tool sets that laboratories of various sizes will need to strengthen and bolster their production of laboratory results of known data quality that are economically feasible without the high costs associated with the proposed regulations based on the 2016 TNI standard alone. It is our hope that as the California QMS is developed, this does not occur in a vacuum, but includes important and iterative communication between the laboratory community and ELAP, and that holistically, we can work in a collaborative manner.

Next Steps & Request

As always, we appreciate the continued dialogue on this very important matter. We have a shared goal of protecting the public's health and the environment, which we take seriously in achieving. We need your understanding and support for California's laboratory community to develop an improved QMS as part of the dual-track accreditation system. ~~As an example of Fe~~ ~~that point, SWRCB and stakeholder collaboration,~~ currently, the Clean Water Summit Partners' representatives are engaged in a unique collaborative approach with the State Water Board's Dianna Messina and staff leadership on the SSS WDR and MRP reopening. This process of sharing stakeholder concerns with regulatory requirements produces practical regulations that are both implementable and protective of water quality, and we are enthusiastic about forging a similar opportunity on QMSs with the ELAP team.

Formatted: Not Highlight

To conclude, we request the State Water Board provide us with additional time to achieve our goal of a dual track accreditation QMS prior to releasing to the public, the proposed draft regulations. We will be accountable for the training events and could provide a report back to the Board in the ~~summer of Fall~~ 2019, or upon your request for a status update.

Sincerely,

CC: State Water Board Members
Environmental Laboratory Accreditation Program Staff
Environmental Laboratory Accreditation Program, Technical Advisory Committee
Members



[Date]

Luisa Valiela
EPA Region 9, Watersheds Office
75 Hawthorne Street
San Francisco, CA 94105

RE: 2018 SF Bay Water Quality Improvement Fund - Transforming Shorelines Application

The Bay Area Clean Water Agencies (BACWA) is pleased to partner with the San Francisco Estuary Partnership and a diverse set of organizations on the Transforming Shorelines project, an ambitious multi-benefit venture linking water quality improvement, nature-based solutions (NBS), and shoreline resilience.

BACWA is a joint powers agency whose members own and operate publicly-owned wastewater treatment and sanitary sewer systems that collectively provide sanitary services to over 7.1 million people in the nine-county San Francisco Bay Area. BACWA members are dedicated to the protection and enhancement of San Francisco Bay.

Wastewater agencies sit at the literal intersection of rising sea levels and pressures to improve water quality. BACWA's members are being challenged to enhance shoreline resilience at their facilities, and at the same time to reduce discharges of nutrients and constituents of concern into San Francisco Bay. NBS have tremendous potential to simultaneously address these drivers, offering a potentially cost-effective solution to water quality challenges while also providing shoreline resilience and habitat. What is critically needed for BACWA's members to move forward on large-scale implementation of NBS is proof of concept and lessons learned on how to practically get projects done, from navigating complex permitting, to designing and maintaining natural systems in a way that ensures their long-term success.

The Transforming Shorelines project will provide our region with the necessary tools to face and solve complex challenges for the future linked with sea level rise, nutrient management and water quality, habitat creation, and the future of our shoreline and prepare BACWA members to take the next step toward NBS implementation.

Transforming Shorelines will (a) build regional capacity for nature-based shoreline infrastructure through technical support and analyses; (b) implement innovative solutions to achieve nutrient management and climate resiliency goals; and (c) advance a project of significant regional importance, the East Bay Dischargers Authority "First Mile" Horizontal Levee.

Under the upcoming 2019 Nutrients Watershed Permit, BACWA anticipates providing funding, direction, and technical support to a regional study that will explore opportunities for NBS and other non-conventional approaches to nutrient load reduction. That regional study and the Transforming Shorelines project will be complementary and integrated to create a roadmap for implementing NBS at Bay Area wastewater treatment facilities.

The proposed project fulfills a critical need for BACWA. We urge your support of this timely and impactful proposal. If you have any questions, please do not hesitate to contact me at dwilliams@bacwa.org.

Sincerely,

David R. Williams
Executive Director

TRANSFORMING SHORELINES: ADVANCING NATURE-BASED SOLUTIONS AND BUILDING CAPACITY FOR INNOVATIVE APPROACHES LINKED TO WASTEWATER TREATMENT

2018 SF Bay Water Quality Improvement Fund Proposal

Transforming Shorelines is an ambitious multi-benefit venture linking water quality improvement, nature-based solutions (NBS), and shoreline resilience. This effort will foster state of the art solutions in collaboration with wastewater treatment facilities among a highly engaged community of practitioners. It will provide the region with necessary tools to face and solve complex challenges for the future linked with sea level rise, nutrient management and water quality, habitat creation, and the future of our shoreline.

Transforming Shorelines will (a) build regional capacity for nature-based shoreline infrastructure through technical support and analyses; (b) implement innovative solutions to achieve nutrient management and climate resiliency goals; and (c) advance a project of significant regional importance, the East Bay Dischargers Authority “First Mile” Horizontal Levee.

Background

Transforming communities and natural landscapes for resilience and protection requires innovative, boundary spanning approaches that provide multiple benefits. Nature-based solutions (NBS) are defined by the International Union for Conservation of Nature as “actions to protect, sustainably manage, and restore natural or modified ecosystem, that address societal challenges effectively and adaptively, simultaneously providing human well-being and biodiversity benefits.”

The Estuary Blueprint (or Comprehensive Conservation and Management Plan, CCMP) 2016 Revision includes Action 14, focused on technical support, capacity building and implementation of NBS pilot projects. The San Francisco Bay Area has led the way with NBS, including the successful design and implementation of the Oro Loma Experimental Horizontal Levee project, the Aramburu Island Beach Restoration project and the San Rafael Oyster/Eelgrass Living Shoreline project. These projects help scientists, engineers, and decision-makers to test and refine nature-based shoreline approaches, as well as for the public to more easily visualize ideas for future shorelines.

While these pilot projects represent important first steps, there is limited funding to study and monitor, or to engage in technology transfer and capacity building for decision-makers on best practices for design and construction of such projects at a regional scale. Cross-cutting collaboration is needed to allow lessons learned and overcome barriers common to NBS and climate adaptation projects. Identifying best practices across projects also allows project proponents to identify the best strategies for specific conditions. Finally, significant gaps in understanding have been identified to improve best practices for NBS, including economic benefits of NBS for flood protection, understanding co-benefits and tradeoffs, as well as appropriate strategies for engaging disadvantaged communities.

Significant climate resiliency opportunities exist using NBS approaches through flood risk reduction and habitat enhancement. The Baylands Goals Science Update provided specific habitat and landscape recommendations for the Hayward-area section of shoreline. These include designing and restoring

complete tidal wetland systems and creating transition zones. One of the major drivers of interest in Transforming Shorelines comes from the need to address increasing flood risks from sea level rise.

Linking NBS to wastewater infrastructure is of high priority to POTWs because it provides a suite of benefits including beneficially reusing wastewater effluent to grow vegetated habitat at the margins of the Bay, enhance flood protection capacities from sea level rise; reduce nutrient discharges in accordance with the Nutrient Watershed Permit (NWP) through the SF Bay Regional Water Quality Control Board, and reduce discharge of constituents of emerging concern such as pharmaceuticals to the Bay. The second NWP, which will become effective in 2019, will require major Dischargers (including the East Bay Dischargers Authority) to evaluate potential nutrient discharge reduction through non-traditional approaches including NBS and greater water recycling, in addition to continued support for modeling and embayment studies to address the potential adverse impacts of nutrients on beneficial uses in the San Francisco Bay. A recently completed study focused on nutrient reduction benefits of NBS opportunities via treatment wetlands. The natural treatment potential at the East Bay Dischargers Authority site is especially high. The Transforming Shorelines project, in coordination with the 2019 regional nutrient reduction study, will move this potential closer to practice by working to identify and overcome barriers to NBS projects, implementing a key demonstration project, and sharing lessons learned around the Bay.

Project Scope and Approach

Project partners will engage a cross-functional and interdisciplinary team working on existing and prospective NBS projects associated with the publicly owned treatment works (POTWs) at City of San Leandro, City of Hayward, and City of Palo Alto to move beyond the single-project approach to one that builds capacity for the region. The project team includes researchers from UC Berkeley already involved with monitoring the Oro Loma Experimental Horizontal Levee, Save The Bay and Peter Baye as plant palette specialists, Oro Loma management and maintenance personnel, local governments, and POTWs.

This ambitious regional project is threefold:

A. Regional capacity building, coordination and technical assistance

Through a series of collaborative workshops, practitioners working on multi-benefit NBS strategies and opportunities around the Bay will share ideas and lessons learned to build capacity for future project implementation. Transforming Shorelines will leverage the work of multiple NBS projects championed by POTWs as pilot case studies, including but not limited to: San Leandro Treatment Wetland (San Leandro Water Pollution Control Plant), Palo Alto Horizontal Levee (Palo Alto Regional Water Quality Control Plant), Oro Loma Experimental Horizontal Levee (Oro Loma Sanitary District Wastewater Treatment Plant), Hayward Wetland Pilot (Hayward Water Pollution Control Facility), and the EBDA “First Mile” project. Transforming Shorelines interacts with ongoing efforts, including the San Francisco Estuary Institute Operational Landscape Units Project focusing shoreline strategies for sea level rise resilience, as well as the NWP regional nutrient reduction study funded by the Bay Area Clean Water Agencies. In addition to the core team described above, Transforming Shorelines will further engage a diverse set of partners to inform and guide this work, including but not limited to East Bay Regional Parks District, SF Bay Regional Water Quality Control Board, SF Bay Conservation and Development

Commission, Hayward Shoreline Planning Agency, Union Sanitary District, and the Novato Sanitary District.

The project core team will engage experts, synthesize lessons learned and best practices for these projects, and provide technical analyses on economic cost-benefit analysis, social equity, strategies for overcoming regulatory hurdles, and other considerations. Learning from the multifaceted design options and maintenance challenges at the Oro Loma Experimental Levee site, Transforming Shorelines will explore solutions for replicability and cost effectiveness through the choices of soils and plant combinations, matching them with existing conditions at the case study sites.

A Best Management Practices Manual on Designing and Implementing NBS Strategies will be compiled and promoted.

B. Design & Implementation of Innovative Solutions to Achieve Nutrient Management and Climate Resiliency at the Oro Loma Horizontal Levee

Placement of RO Concentrate: Since construction of the Oro Loma Experimental Horizontal Levee, the project team, including several researchers from UC Berkeley, have conducted ongoing monitoring. Removal of nitrates and trace organic materials occur successfully within the subsurface layers, and researchers have also seen positive results with removal of Contaminants of emerging concern (CECs), and pharmaceuticals in particular. Vegetation establishment has exceeded expectations. An emerging question for future horizontal levee design is if NBS can treat high salinity reverse osmosis concentrate. The project team will explore the use of reverse osmosis concentrate to determine the potential for employing the higher concentrations of nutrients, contaminants and salts in the horizontal levee.

Nutrient Optimization: The Oro Loma Sanitary District will achieve nutrient management goals in part through implementation of a new treatment process to convert incoming ammonia to nitrogen gas to reduce nutrient load and improve water quality in the San Francisco Bay.

C. Advance the East Bay Dischargers Authority “First Mile” Horizontal Levee

EBDA “First Mile”: Working from the success of the Oro Loma Experimental Horizontal Levee, this “First Mile” goes beyond the demonstration scale to the first full fledged application of this concept at an operational scale. Transforming Shoreline will include 80% design and permitting of a mile long horizontal levee along the Hayward Shoreline between Bachman Canal and Sulphur Creek OR between San Lorenzo Creek and Estudillo Creek. The proposed alignment makes use of an existing railway corridor and an existing recycled water pipeline that will provide treated wastewater to the horizontal levee. This project will also build on the Oro Loma Horizontal Levee project by developing new experimental methods and monitoring results in order to improve future design.



BACWA
BAY AREA
CLEAN WATER
AGENCIES

BAY AREA CLEAN WATER AGENCIES
Draft ANNUAL MEETING PROGRAM
JANUARY 19, 2018

Open your browser

ENTER: pollev.com/bacwa

For Ranking questions: use the lines to the right to arrange your answers

<u>TIME</u>	<u>SUBJECT</u>	<u>DESCRIPTION</u>	<u>SPEAKER</u>
QUESTION 0	Rank your favorite Winer Olympic sports		
8:30 am - 9:00 am	Coffee and Refreshments		
9:00 am - 9:15 am	Welcome	Introduction and Year in Review	Jim Ervin, Chair
9:15 am - 10:00 am	EPA/SWRCB/RWQCB/ Priorities	<u>Moderator</u> BAAQMD APCO EPA Region IX, Manager, NPDES Permits Office SWRCB Board Member RWQCB Executive Officer	<u>Lori Schectel</u> Jack Broadbent David Smith Steve Moore Bruce Wolfe
10:00 am - 10:15 am	Nutrients - Overview	Progress on 1st WS Permit/Governance Update	Mike Connor
10:15 am - 10:30 am	Break		
10:30 am - 11:45 am	Nutrients - Regulatory Update (cont'd)	<u>Moderator</u> Optimization/Upgrade Studies Annual Reporting Q & A Next Steps	<u>Eileen White</u> JB Neethling, HDR JB Neethling, HDR JB Neethling, HDR JB Neethling, HDR
QUESTION 1	Would you or your staff be interested in attending an all-day workshop to review all 37 individual POTW Opt/Upgrade reports?		
11:45 am - noon	Arleen Navarret Award presentation and BACWA Leadership Recognition	presentation of award followed by Committee Recognition (scrolling screen with Committee Accomplishments)	Jim Ervin, Chair
Noon - 12:35 pm	Lunch		
12:35 pm - 12:45 pm	BACWA Business Meeting	Financial/Organizational Outlook	David Williams
QUESTION 2	What are the most important (or relevant) indicators of Bay health with respect to nutrient loads? Rank from most relevant (1) to least relevant (6)		
12:45 pm - 1:30 pm	Nutrients - Technical Update	<u>Moderator</u> SFEI Study Findings/Assessment Framework/Future Efforts	<u>Eileen White</u> David Senn, SFEI

1:30 pm - 1:45 pm	Nutrient - Regulatory	Preview of the 2nd Watershed Permit	David Williams
QUESTION 3	Rank these topics from most to least interest for an innovative technology workshop. 1 = most interest; 6 = least interest		
1:45 pm - 2:45 pm	BACWA Hot Topics	<u>Moderator</u>	<u>Laura Pagano</u>
	(pick 4-6 topics for high level overview)	Biosolids	Alicia Chakrabarti
	QUESTION 4	What will you do to comply with the phase-out of biosolid's use as ADC? Pick one that most closely represents your situation	
		Recycled Water Policy	Rhodora Biagtan
	QUESTION 5	Rank the barriers to increasing water reuse at your agency. Most important (1) to least important (5)	
		TNI Lab Standards	Nirmela Arsem
	QUESTION 6	How will your agency respond to the new TNI standards? Choose One	
		Chlorine Residual BPA	Tom Hall (EOA)
	QUESTION 7	Given the instantaneous chlorine residual limit of 0.0 mg/l, how much do you estimate your agency would save	
		Enhancing Service to the Membership (key survey results)	David Williams
QUESTION 8	How would you rank this venue vs previous venues for BACWA's Annual Meeting? (1 - best to 5 - worse)		
2:45 pm - 2:50 pm	Annual Meeting Wrap-Up		Jim Ervin, Chair

Topics for Annual Meeting

Potential Topics

EPA Update

SWRCB Update

SF Water Board Update

Science Update

Op/Upgrade Study

Group Annual Report

2nd Watershed Permit

Toxicity Provisions

Pesticides

CEC's

Potential Speakers

David Smith

Steve Moore's replacement or Dee Dee D'Adamo

Bruce's replacement

David Senn

HDR

HDR

BACWA ED

BACWA RPM

Kelly Moran

Becky Sutton

X-Media Issues

?

Chlorine Residual BPA

Tom Hall

ELAP/TNI Implementation

Nirmela Arsem

SSS WDR

Erin Smith

Recycled Water Policy

Leah Walker

AIR Issues

Sarah Deslauriers

Possible Dates for Pardee Technical Seminar in 2019

September 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Available Dates

9/20/18: BACWA Executive Board Meeting/Pre-Pardee Seminar

WEFTEC: 9/21-25/2019 (Chicago)

October 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	

Not available

Not available

Preferred Dates. Waiting to hear from EBMUD

Conflict with SFEI Microplastics Symposium

Halloween

All other days of the week are available in both September and October, 2019.

Sherry Hull

From: Sherry Hull
Sent: Monday, November 12, 2018 9:07 PM
To: Sherry Hull
Subject: Exfiltration Workshop
Attachments: 9-14-18 Draft Exfiltration Workshop Agenda.docx; 6-19-18 Final CASA SCAP SD TIO Letter.pdf

From: Regulatory [<mailto:regulatory-bounces@lists.casaweb.org>] **On Behalf Of** Adam Link via Regulatory
Sent: Monday, September 17, 2018 1:03 PM
To: regulatory@lists.casaweb.org
Cc: Adam Link <alink@casaweb.org>
Subject: [Regulatory] October 1 Exfiltration Workshop in San Diego - RSVP

CASA Regulatory Workgroup,

As mentioned on our last call, CASA and SCAP are hosting a workshop focusing on exfiltration issues on **Monday, October 1 from 10:00 am – 2:30 pm in San Diego at 2392 Kincaid Rd.** The intent of the workshop is to raise awareness of potential exfiltration issues and provide a forum for information sharing within the wastewater community. Both CASA and SCAP member agencies are invited, and if you are interested in exfiltration issues, I encourage you to RSVP and attend! A preliminary agenda is attached.

For background, the San Diego Regional Water Quality Control Board recently issued a Draft Tentative Order directing collection system operators in the San Diego River Watershed to identify and quantify the sources and transport pathways of human fecal materials to the San Diego Watershed. Specifically, specified agencies are directed to provide the San Diego Water Board with an estimation regarding the exfiltration of wastewater from the sanitary sewer collection system to the San Diego River Watershed. A link to the webpage for the order is here: https://www.waterboards.ca.gov/sandiego/water_issues/programs/san_diego_river_io/index.html. In response to this order CASA and SCAP prepared a joint comment letter (also attached).

In subsequent discussions, we felt the need to explore some of the technical underpinnings of exfiltration theories with our members. We have a panel of subject matter experts to help guide the discussions, and this workshop is free to all CASA and SCAP members. Coffee, snacks and lunch will be provided. **Please RSVP to Pam Merriam at pmerriam@scap1.org by September 26 to reserve your spot**, and feel free to email me directly at alink@casaweb.org if you have any questions.

Looking forward to seeing you there!

- Adam

Adam D. Link
Director of Operations
California Association of Sanitation Agencies
916.446.0388, ext 102 (office)
916.947.2900 (mobile)
Ensuring Clean Water for California
www.casaweb.org

CASA/SCAP EXFILTRATION WORKSHOP (INTERNAL)

DRAFT AGENDA (9/14/18)

Monday, October 1 - 10:00 a.m. to 2:30 p.m.

San Diego

Conference Room at City MTS Facility (Near Airport) - 2392 Kincaid Rd. San Diego 92111

Speakers and Panelists:

Melissa Thorme, Downey Brand

Paul Causey, Causey Consulting

Michael Flores, HDR

Brandon Steets, GeoSyntec

Michael Trapp PhD, Michael Baker Int.

Steve Stuart PE, Dudek

Don Marrin PhD, Dudek

Yiping Cao PhD, Source Molecular

Bryn Evans, Dudek

1. Introductions and Workshop Goals– 10 a.m. – 10:15 a.m. (Link, Jepsen)
 - a. Establish state of knowledge and resources on sewer exfiltration
 - b. Develop presentations, ideas and messages for potential future workshop(s)
2. Current sewer exfiltration issues and papers – 10:15 a.m. 10:30 a.m. (Jepsen)
 - a. Introduction to exfiltration theory
 - b. A brief summary of previous papers and tests
 - c. A description of the R9 Tentative Investigative Order
3. Types of Sewer Pipe / Construction Methods / Bedding Materials – 10:30 a.m. – 11:00 a.m. (Causey, Flores)
 - a. Collection system basics (e.g. upper lateral, lower lateral, connection, main, trunk, forcemain)
 - b. Pipe materials, joint types, potential for leakage, construction methods, bedding materials
4. Soil Types and Exfiltration Migration / Microbial Treatment That Occurs in Soil – 11:00 a.m. – 11:45 a.m. (Trapp, Stuart, Marrin)
5. Lunch – 11:45 a.m. – 12:15 p.m.
6. GIS Based Desktop Exfiltration Potential Analysis – 12:15 p.m. – 12:35 p.m. (Evans)
7. Types of Human Fecal Matter Indicators – 12:35 p.m. – 1:00 p.m. (Trapp, Cao)
 - a. Indicators used to date – Trapp
 - b. HF 183 – Cao
 - c. Microbial Communities
8. Santa Barbara Study, State of Knowledge on Sources of HFM 1:00 p.m. – 1:30 p.m. (Steets)
9. Legal Considerations Related to Exfiltration – 1:30 p.m. – 2:00 p.m. (Thorme)
10. Final Question and Answer Session, Next Steps, and Wrap Up – 2:00 p.m. – 2:30 p.m. (Link, Jepsen, All)



June 20, 2018

Submitted via Email to SanDiego@waterboards.ca.gov

Mr. Roger Mitchell
San Diego Regional Water Quality Control Board
2375 Northside Dr., Ste. 100
San Diego, CA 92108-2700

Subject: Comment - Tentative Order No. R9-2018-0021

Dear Mr. Mitchell:

The California Association of Sanitation Agencies (CASA) and Southern California Alliance of POTWs (SCAP) appreciate the opportunity to comment on **Tentative Investigative Order No. R9-2018-0021**, *An Investigative Order Requiring the Submittal of Technical and Monitoring Reports to Quantify the Sources and Transport Pathways of Human Fecal Material to the San Diego River Watershed*.

For 60 years, CASA has been the leading voice for public wastewater agencies on regulatory, legislative and legal issues. CASA is an association of local agencies, engaged in advancing the recycling of wastewater into usable water, generation of renewable energy, and other valuable resources. Through these efforts CASA's members help create a clean and sustainable environment for Californians. SCAP represents and advocates for over 80 public agencies providing water and wastewater service for 19 million people in 7 counties of southern California. Both CASA and SCAP have member agencies listed in the Tentative Order and in the San Diego region.

CASA does not routinely comment on matters within individual regions, except in circumstances such as this, where the proposed regional action could have significant statewide implications. To the extent that the San Diego Regional Water Quality Control Board (Regional Board) actions related to this Tentative Investigative Order (Tentative Order) could affect how other regions approach issues pertaining to obligations of wastewater collection and treatment facilities to investigate or take actions related to quantifying sources and transport of Human Fecal Material (HFM) in a given watershed, all of CASA's members statewide have a significant interest the development and implementation of the Tentative Order. We are highly concerned about the scope and approach contained in the Tentative Order for the following reasons:

The Tentative Order Seems to be Addressing A Water Contact Recreational Issue Currently In Conformance with USEPA Guidance

To be valid under the Administrative Procedures Act, Regional Board regulations must be necessary and derived from the agency's authority. Currently, the San Diego Basin Plan has no water quality objective for HFM, only for total and fecal coliform, enterococci, and E. Coli. The Basin Plan incorporates a chart containing the USEPA Bacteriological Criteria for Water Contact Recreation, but no criteria for HFM, raising the question of authority for the Tentative Order.

In addition, the Tentative Order specifies that the Region's number of illnesses following ocean exposure (25 illnesses/1000 swimmers) is slightly greater than the number of illnesses of those not entering the water (18 illnesses/1000 swimmers). See Tentative Order at pg. 5, para. 11. The Tentative Order also

states that, during wet weather, the illness rate inches up to 30 illnesses/1000 swimmers. All of these values are well below the 2012 USEPA Guidance for recreational beaches (32-36 illnesses/1000 swimmers). Therefore, the Regional Board has not demonstrated the proposed Tentative Order is necessary.

The Likelihood of Sewer System Exfiltration Being a Significant Contributor to Illness in the Watershed as a Result of Wet Weather Events is Exceptionally Low

The Tentative Order mandates agencies (including wastewater collection and treatment agencies) develop technical and monitoring reports to identify and quantify the sources and transport pathways of HFM to the San Diego River Watershed. The justification for requiring these activities is the 5 illness/1000 swimmer increase following ocean exposure after a rain/storm event, as described in the Surfer Health Study (SHS). However, attributing the entire illness rate (or even a significant portion thereof) to human derived pathogens as a result of sewer system exfiltration is not supported by evidence. A whole host of alternative sources are far more likely to be responsible for any increase in illness rates during wet weather events, including but not limited to nearby avian nesting areas, homeless encampments, and other wildlife activity. In addition, questions exist about the accuracy of human epidemiological studies on illness through surveys, such as the SHS.

Even if focused exclusively on HFM, it is highly unlikely that illnesses are caused by human pathogens present as a result of exfiltration from wastewater systems. Although it is possible that small amounts of wastewater exfiltration may occur in some areas, this process would primarily occur during dry weather when groundwater levels are low. Studies have shown that microbes in the soil consume much of the bacteria and viruses that may be present, and engineering texts have consistently demonstrated that few if any viruses exist even three feet below a leachfield trench. (Metcalf & Eddy, 3d Edition, pg. 1040, Table 14-7.)

During wet weather events, sewer systems primarily experience inflow and infiltration, with water entering the pipes, not water leaving or exfiltration. The odds that a storm drain or water body more than three feet away from an exfiltrating sewer pipe has virulent pathogen contributions as a result of a wet weather event are slim to none. SCAP is willing to provide technical data to demonstrate this removal as the Regional Board considers the Tentative Order.

Finally, some of the systems identified in the Investigative Order are located significant distances from the areas of concern. According to SCCRWP scientists, human markers for pathogens have a short life, and in the case of potential sewer exfiltration, pathogens would be contained in soil matrix and would take months, if not years, to reach surface water. These facts weigh against exfiltration being a primary or even a significant contributor to the slight increase in the number of illnesses by recreational beneficial users as described in the Tentative Order.

The Scope of Investigation Contemplated Under the Tentative Order is Unreasonable and Unnecessary in the Absence of Illnesses Above Guidance Criteria or a Demonstrated Nexus to Exfiltration

Given the absence of illnesses in amounts exceeding the USEPA criteria of 32-36 illnesses/1000 swimmers, and the absence of a nexus between the slight increase of illness rates following ocean exposure after a rain/storm event and alleged wastewater exfiltration, no demonstrated reasonable relationship exists between the burden (including costs) of performing many of the investigation and monitoring activities required under the Tentative Order and the potential value of the information gathered.

Even if illness rates identified in the Surfer Health Study (SHS) could be directly tied to HFM, which is not demonstrated in the Tentative Order or in the SHS, these illness rates are within acceptable established criteria. As a result, the limited impacts to beneficial uses fail to justify the scope of investigation contemplated by this Tentative Order. In fact, SCCWRP's own cost-benefit analysis demonstrates that the costs of the investigations contemplated under the Tentative Order outweigh any potential benefits.

The Tentative Order Requires Limited Purpose Agencies to Investigate and Potentially Address HFM Sources Outside of Their Control

Even if the entities listed in the Tentative Order have some control over sources of HFM, such as homeless encampments, the proper mechanism to minimize the effects of human bacteria from homeless individuals is certainly not through a Regional Water Quality Control Board order targeting sewer collection systems. Homelessness is a much larger societal issue that goes far beyond agencies responsible for managing and maintaining sanitary sewer and storm drain systems. The nexus is simply insufficient to justify the scope of this investigative order as drafted.

Moreover, the burden placed on the dischargers identified in the Tentative Order should be proportional to their contribution to the problem. As specified in Water Code sections 13267(b) and 13225(c), the burden of complying with the Tentative Order, including cost, must bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. Collectively, the monitoring and reporting actions outline in the Tentative Order would cost the identified agencies millions of dollars, an amount that is clearly unreasonable without any HFM objectives, illnesses exceeding USEPA criteria, or a direct nexus to wastewater exfiltration inputs. The quantities of pathogens found at the beach are reasonably expected to be comparatively low compared to other likely sources of HFM, including homeless encampments and possible direct inputs from swimmers themselves or boaters.

Additionally, the Tentative Order directs public agencies to investigate private laterals as source of human bacteria in the watershed. In most, if not all cases, sewer laterals are privately owned and outside of the control of the local public agency.

The Tentative Investigative Order is Premature

The proposed Tentative Order is premature until the Regional Board and collaborating agencies have developed the necessary statistically viable methodologies and proved technologies to accurately assess the HFM loading from the different sources of human bacteria. Methods for analyzing and sampling to determine exfiltration rates and loading contributions have not yet been developed, and no verified and broadly accepted approach is yet available. Research to quantify volumetric losses from sanitary sewer collection systems is ongoing but is not likely to be completed for another several years.

Moreover, the studies relied upon in the Tentative Order have not quantified HFM levels for public health exposure or risk comparisons. And as previously stated, there is no established HFM objective in the Basin Plan (only fecal and total coliform, E. Coli, and enterococcus). We reiterate our concern that the basis for the Tentative Order is a non-adopted water quality objective, and that where the Basin Plan has no objectives for human fecal material, the Regional Board lacks the authority to regulate in this manner.

Finally, the Tentative Order lacks specific findings that state the purpose of the Order, the clear nexus between those entities tasked with and their relative contribution to (and ability to manage) HFM sources in the San Diego Watershed, and how the Regional Board intends to use the information and

data gathered under the Tentative Order to determine compliance or other actions. Supportable findings of this nature are necessary if the Regional Board is to proceed with a final Order.

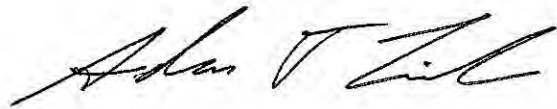
This item is of significant importance to both CASA and SCAP member agencies within the San Diego region and our larger statewide membership. Given this, prior to issuance of a final Investigative Order, we request that the Board hold a public workshop, including an adequate opportunity for public comment.

We appreciate the opportunity to provide comments on the Tentative Investigative Order and look forward to addressing these issues. If there are any questions or if additional correspondence is desired, please reach us at 760.479.4112 / sjepson@scap1.org or 916.446.0388 / alink@casaweb.org.

Sincerely,



Steve Jepsen, Executive Director
Southern California Alliance of POTWs



Adam D. Link, Director of Government Affairs
California Association of Sanitation Agencies

Services and FAQs Regarding BACWA Providing Administrative Services to the Bay Area Biosolids Coalition (BABC)

Introduction

The BABC is a group of 19 public agencies formed in 2006 to develop options for sustainable solutions for biosolids management, including beneficial reuse and use as a renewable energy resource. It operates under a Joint Exercise of Powers Agreement. Delta Diablo (DD), one of the members of the coalition, had served as the administrator of the coalition's business for several years. Currently BABC has 19 members, 18 of which are also BACWA members with Santa Rosa not being a BACWA member although it participates in BACWA activities on a fee basis. As part of the BABC's mission, contracts for professional services have been executed over the years to conduct studies on options for sustainable management, the feasibility of producing energy from biosolids as well for lobbying efforts. DD had provided administrative services to the BABC coalition at little or no costs for several years but for the last few years the JPA has contracted with a consultant to provide program management.

BACWA operates under a Joint Powers Agreement (JPA) established in 1983 as a separate public entity from its members and providing services that benefits its members including but not limited to: collecting, interpreting, and managing data; coordinating work efforts; assessing effects of pollution on the Bay; development and dissemination of information about the Bay; conducting programs of mutual interest of its members, and representing its members on regulatory issues. BACWA has many powers including ability to enter into contracts, employing agents as well as employees, incurring debt, accepting grants, conducting studies, and to sue and be sued.

With respect to providing administrative support to BABC, there are two primary approaches typically used by BACWA for this purpose. The first is the JPA's Programs of Special Benefit. These are programs whose benefits are significantly greater for some BACWA member agencies than for others and whose costs are allocated to agencies in accordance with the program's benefits. The second approach is to use BACWA's contracting authority to provide the needed administrative services.

FAQs

Q: How would BACWA provide administrative services to BABC?

A: Given that the BABC itself is a Joint Exercise of Powers Agreement and the fact that currently the membership consists of some non-BACWA members and that more non-

BACWA members may be added, it appears that the best approach is to provide the services through a contract.

Q: Would BACWA be interested in providing services to BABC?

A: The decision would be up to the BACWA Board however, given the alignment of the mission with BACWA's purpose, the Board may be favorably inclined, as it has been in the past, to provide administrative support when there is close alignment with the contracted entity.

Q: What types of services could BACWA offer to BABC?

A: With limited staff, BACWA does not have the band width to provide in-depth technical support to BABC however BACWA could provide administrative support thereby lessening the cost to the JPA for what it pays for administrative support through its consultant contract. Typical administrative services would include the following:

- Invoicing BABC's membership based on invoice amounts provided by BABC, collecting revenues and paying bills;
- Contracting on behalf of BABC;
- Communicating and coordinating with EBMUD Accounting, who provides accounting services to BACWA to ensure proper and timely processing of BABC contracts and invoice from contractors;
- Acting as an intermediary between BABC project managers and EBMUD Accounting to track revenues and expenditures for BABC specific projects and/or special programs;
- Assisting with the coordination and facilitation of BABC meetings and logistics;
- Managing retention, organization, maintenance and storage of BABC electronic files;
- Maintaining BAB2E contact and distribution lists;
- Other administrative support as defined in a scope of work between BACWA and BABC.

Q: What role would BACWA play in the governance of BABC?

A: Under an administrative services contract, BABC would continue to govern itself as it currently does.

Q: If BABC participates in lobbying activities and legislative review, would this change under an agreement with BACWA?

A: Under an administrative services contract, BABC would continue its lobbying and legislative activities.

Q: Would there be any restrictions on the membership of BABC?

A: Under an administrative services contract, BABC would have no restrictions on its membership.

Q: What would be the term of a contract?

A: That is negotiable. Typically, BACWA contracts for services are for one year, however for when BACWA is providing a service, the contract could be longer or be for one year and have annual extensions.

Q: What does it cost for BACWA to provide administrative services?

A: That is negotiable depending on the services needed however the BACWA Board has established a 5% administrative fee for non-aligned, non-member entities that simply need contracting services or the administration of funds from their members. When the mission is aligned and there are mutual members involved the fee could be lower deepening on the size of the service contract or the amount of funds administered.

Given that the BABC may desire more robust administrative support beyond simply contracting services (i.e. meeting logistics, meeting minutes, electronic documentation filing, member communication, etc.) one approach would be for BACWA to track staff billable hours for a year or part of a year on a pilot basis in order to hone in on what an on-going annual fee would be for future years of providing service.

Q: Down the road could the BABC coalition become a committee of BACWA funded by BACWA dues?

A: BABC members can already participate in BACWA and specifically in the BACWA Biosolids Committee which is funded by BACWA dues. The answer is not clear at this time if and how the BABC could participate in BACWA as a stand-alone Program of General Benefit (i.e. funded by BACWA dues) or a Program of Specific Benefit funded by its members. The answer may take some input from the BACWA legal counsel regarding the interpretation of the BACWA JPA.

Bay Area Biosolids Coalition

2018 Guidance Budget

Coalition Management	Actual	In Kind
Program Manager (Strategic Plan Support)	\$120,000	\$0
Executive Board Oversight	\$0	\$100,000
Subtotal	\$120,000	\$100,000
Community Engagement	Actual	In Kind
Web Master Contract	\$5,000	\$0
Collateral Development	\$10,000	\$0
Public Relations	\$0	\$30,000
Subtotal	\$15,000	\$30,000
Discretionary	Actual	In Kind
Academia Research & Development Program	\$25,000	\$0
Technology Research & Development	\$25,000	\$0
Project Development & Support	\$25,000	\$0
Subtotal	\$75,000	\$0
Total Expenses	\$210,000	\$130,000
JEPA Administration (5% of budget or \$10,000,	\$10,500	
	Actual	In Kind
Total Expenses + JEPA Administration	\$220,500	\$130,000

In Recognition of
BRUCE WOLFE

FOR

Over 41 Years of Dedicated Public Service to the
San Francisco Water Board



Executive Officer

2003 – 2018

Presented by

Bay Area Clean Water Agencies



Committee Request for Board Action: None

20 attendees, including 8 on phone, representing 11 member agencies

1. Greenhouse Gas Updates

- a. [SB 1383 Short Lived Climate Pollutant \(SLCP\) Reduction Strategy](#) Implementation - The release of the Economic Analysis is expected in October. The first draft of the formal regulation is expected to be released 30-60 days following the release of the Economic Analysis (by December). The regulation is scheduled for adoption within one year of the release of the formal draft language (by end of 2019), becoming effective in 2022, and enforceable in 2024.
- b. BAAQMD continues to work on its Basin-Wide Methane Strategy, using proposed [Regulation 13](#) (Climate Pollutants). BAAQMD is holding workshops on the suite of regulations under development beginning November 1st. [Draft Rule 13-1](#) (Significant Methane Releases) has been released for comment. Comments are due November 13th. Methane releases related to digester cleaning need to be considered under this rule, particularly in the context of how long the release of biogas takes associated with cleaning relative to the proposed fix times for release abatement.

BAAQMD has added a NEW proposed rule to the series under the Basin-Wide Methane Strategy - Rule 13-4 "Wastewater Treatment Operations." BAAQMD intends to hold stakeholder workshops (separate from those beginning November 1st) for this rule to collect stakeholder-specific input.

2. [AB 617](#) requires each Air District that is a nonattainment area for one or more air pollutants to develop a [Community Health Protection Program](#), as well as adopt an expedited schedule for implementation of best available retrofit control technology (BARCT) for specified facilities (i.e., within selected communities) by the earliest feasible date and no later than December 31, 2023. Local Air Districts are required to adopt this schedule by December 31, 2018. The overall purpose of BARCT implementation is to reduce criteria pollutant and toxic air contaminant emissions from significant industrial sources not including internal combustion engines. BARCT for internal combustion engines may be set at a future date.

We expect to see the release of staff documents and the final proposed regulation in November 2018. We will have a 45-day period to review and submit comments, if needed.

3. Portable Engine Registration Program (PERP) amendments will become effective November 30th. A key provision includes the phase-out of older portable diesel engines.

4. BAAQMD Rule Updates

- a. BAAQMD is developing a [Rule 11-18](#) Implementation Procedure document that will provide guidance to BAAQMD staff, as well as the regulated community. We recommend BACWA agencies take time to update emission inventories (i.e., update influent flow and concentration data) as you pay BAAQMD invoices. We have a subcommittee that has been meeting to develop an approach that could be used by BACWA member agencies. Members of that subcommittee (representing Sunnyvale and Palo Alto) presented the initial efforts for feedback. The subcommittee plans to circulate a draft outline of the proposed approach for review in the next few weeks.
- b. Proposed Non-Refinery Flare Rule Development
 - i. SCAQMD is developing [Rule 1118.1](#) which includes biogas flares. The intent is to reduce emissions (specifically, NOx and VOCs), minimize routine flare use, and phase out older flares. The proposed emissions limits were so low that no existing flare could meet them. As of October 31st, the [proposed rule language](#) shows the current minor (0.06 lb/MMBtu) and major (0.025 lb/MMBtu) source BACT levels for digester gas flares. One significant change is a requirement for existing flares to operate at less than 70% of the flare's capacity. If a flare exceeds this threshold for a period of two years, then the flare might need to be replaced.

The remaining issue to be addressed is whether major and minor source levels should be modified for thermophilic digestion and food waste co-digestion. SCAQMD concurs that with SB 1383 requiring diversion of food waste from landfills there could be unintended consequences for flares. SCAQMD staff has agreed to include a Board resolution that would commit to an assessment of the potential problem and to reassess BACT limits, if needed.

4. [Permit Handbook](#) Revisions: During the Annual BAAQMD-BACWA meeting held in August, BACWA was invited to review and revise the Permit Handbook. EBMUD has volunteered to host a subcommittee to work on this process where BACWA members can edit and develop proposed language for standard permit conditions, etc.

The next BACWA AIR Committee meeting is scheduled for Wednesday, January 16th

Committee Notes are available [online](#).

Regional Water Board Update

Debbie Phan announced the retirement of Executive Officer Bruce Wolfe. Patrick Karinja has been transferred to the division of drinking water. She also shared the [slides](#) from the presentation of the Dr. Teng-Chung Wu Award to Annie Joseph (OWOW) on September 12.

Toilets aren't Trashcans Campaign Update

O'Rorke ran a regional online advertising campaign with Division D to educate residents throughout the Bay Area about the importance of never flushing wipes or drugs down the toilet as part of BAPPG's FY 2018/19 Task 1 - Toilets Aren't Trashcans outreach. This campaign utilized online ad artwork developed by CCCSD and O'Rorke developed in FY 2016/17.

TIMING - September 17 – 23, 2018 – Online ads ran for one week

RESULTS – DIVISION D ONLINE & MOBILE ADS

- 1,113,737 impressions, including 106,008 bonus impressions
- 2,540 clicks
- 0.23% CTR

Screenshots of the Division D ads are provided as a separate attachment.

WEBSITE TRAFFIC - Visits to Baywise.org from September 17 – 23, 2018:

- 1,639 visits from 1,632 unique users
- 2,240 unique page views

When the regional online campaign was not running, website traffic to Baywise.org was significantly lower.

Pesticides Update

Dr. Kelly Moran gave a [presentation](#) on regulatory activity pertaining to pesticides. She urged **committee members to refer to "flea/tick control", not just fipronil, when discussing this issue**, since we want to avoid regrettable alternative pesticides. DPR has improved product registration, with consideration of the path of pesticides to POTWs. DPR is now putting the burden of proof on **manufacturers on aquatic toxicity, and is developing a "down the drain" model. EPA has not been** active on this front, and we may need legislation to give DPR more authority on pesticide regulation.

Stephanie Hughes gave a [presentation](#) on flea control messaging, including effective alternatives to topical treatments. There was a discussion about the relative effectiveness and cost of oral versus topical treatments. Baywise.org now has a series of pages dedicated to flea and tick control messaging to pet owners and vets.

Budget

The FY19 committee budget was approximately 22%, spent.

Next BAPPG Meeting

BAPPG General Meeting

December 5, 2018: 9:00am-1:00pm
 1515 Clay Street, Second Floor, Room 11
 Oakland, CA

Biosolids Committee – Report to BACWA Board

Biosolids Committee meeting on: September 20, 2018
Executive Board Meeting Date: November 16,, 2018
Committee Chair: Alicia Chakrabarti and Ravi Krishnaiah

Committee Request for Board Action: None.

Tour of Santa Rosa Composting Facility

- Zachary Kay gave a [presentation](#) describing Santa Rosa’s composting facility. The City of Santa Rosa reuses its biosolids via a combination of compost, land application, and landfill. Their land application operations are limited by surrounding land that is tiger salamander habitat.



BACWA Biosolids Survey Preliminary Results

- Lorien Fono gave a preliminary presentation summarizing the 22 responses to the 2018 BACWA Biosolids Survey
- Biosolids production (in wet tons) remained comparable to previous years since 2014.
- There were no significant changes in the issues identified as the top challenges to biosolids programs.
- The majority of agencies are developing plans for the phase out of biosolids reuse in landfills, per SB 1383.

BABC Update

- Sarah Deslauriers gave an update on the Bay Area Biosolids Coalition.
- BABC is looking the feasibility of ten different potential host sites.
- Considerations are who can leverage stranded infrastructure, what is the local geography.
- Private companies developing projects on new greenfield sites are at a disadvantage compared to POTWs who can develop facilities onsite.

Anaerobic Digestion Capacity Survey

- CASA is getting a good response to their survey, whose purpose is to estimate the anaerobic digestion capacity at POTWs that could help the State meeting its climate change goals.
- The survey report will be available by June 2019.

Next BACWA Biosolids Committee Meeting: TBD

Committee Request for Board Action: None

29 attendees, representing 15 member agencies.

SSS WDR Reissuance

The committee briefly discussed CASA's redlines on the [WDR](#) and [MRP](#) that were delivered to the State Water Board.

Regional Water Board

At the November meeting, the committee would like to ask Regional Water Board staff about the Region 2 audit schedule moving forward.

Planning for Climate Change

Enrique Lopezcalva of Woodard & Curran gave a [presentation](#) on Planning for Climate Change. California's forecast for sea level rise is based on IPCC projections. Temperature and precipitation changes are also key considerations. Temperatures are set to rise, but total precipitation is more uncertain, although it will likely arrive in fewer, larger, storms. EPA maintains an adaptation Case Studies page. Planning for climate change involves identifying critical scenarios for your agency, then looking at models that predict the likelihood of those scenarios. There was a discussion about potential liability from choosing the "wrong" design storm. The committee also discussed the difference between "adaptation" – building and bolstering your system against extreme events; and "resiliency" – the ability to recover from extreme events.

Next Collection System Committee Meeting

Our next committee meeting will be held on November 29.

Laboratory Committee – Report to BACWA Board

Laboratory committee meeting on: September 12, 2018 and
October 10, 2018

Executive Board Meeting Date: November 16, 2018

Committee Chair : Nirmela Arsem

Committee Request for Board Action: none

9 attendees representing member 5 agencies

13 attendees representing member 8 agencies

TNI Transition:

9/12 NEMC Conference

Nirmela gave an update from State Water Board staff presentation at the [NEMC conference](#). Staff feel that the problem with TNI is largely one of perception and if this can be overcome, there will be a smooth transition to the new accreditation scheme.

9/12 Focus Topic: Section 5.3 Accommodations and Environmental Conditions

This section covers the impact of conditions such as lighting and ventilation. It also addresses tests performed outside the lab. It sets boundary limits for environmental conditions that would disallow analysis if exceeded. This section mostly pertains to good housekeeping and prevention of cross contamination.

10/10 State Agency Partners Presentation

Nirmela reviewed the [presentation](#) from the State Agency Partner committee. The State Labs are supportive of TNI but do not plan to transition themselves.

Discussion of Strategy 10/10

The committee gave feedback that they appreciate the monthly discussions about the TNI standards. There was a discussion about the feasibility of getting an estimate of statewide costs to implement TNI that could be used in future discussions with State Water Board members. There was a discussion of the [Summit Partners letter](#) on dual accreditation, and that some Board members may be supportive of the strategy.

New methods, 9/12

There was a discussion of the difficulties in getting approval for new methods from ELAP. All communication should be done in writing since auditors and ELAP may have different view on what is permissible.

Certification, 9/12 and 10/10

There was a discussion about lag time in getting certification, and Catch-22 type situations where certification can't be made permanent in a timely manner. Agencies that are having issues with ELAP notresponsiveness should bring documentation to an ELTAC meeting

Future meeting topics

VM5 Findings

Lab Cleaning

Conferences

There will be a lab meeting at the P3S conference in Monterey from Feb 11-13, 2019

The CWEA Annual Conference in April will have a Laboratory section with two full days of Laboratory Topics.

CWEA is looking for new cochairs for the State Committee.

Next meeting: November 14 2018

Operations and Maintenance
 Infoshare Group Report to
 BACWA Board

Committee Meeting on: 08/29/18
 Executive Board Meeting Date: 11/16/18
 Committee Chair: Kevin Dickison and Joaquin
 Gonzales

Committee Request for Board Action: None

13 attendees representing 6 member agencies

Highlights of New Items Discussed and Action Items
<p>Installing and optimizing process automation using emerging sensor technologies (i.e. scan, ZAPS, etc.) - Round Table Discussion</p> <ul style="list-style-type: none"> • Improvements in online/real-time monitoring allows for enhanced process control and asset management. This discussion centered on the steps plants have taken in improving online monitoring. • One agency is looking at online surrogate monitoring and is considering the relationship between TOC and BOD, working with Isle Technologies. • Some agencies are doing both COD and BOD via online analyzers. Others reported they have been having problems with hydrogen sulfide, as well as low levels of ammonia with online analyzers. • A participant asked if there is an accurate way to measure WAS and RAS. • A participant discussed a tour he recently took in Raleigh/Dorham, and highlighted their use of online analyzers, and the need to keep software up to date. • The group discussed issues with staff receptiveness to new instrumentation, and security risks inherent in wireless controls. • Often, vendors have high staff turnover, leading to lack of continuity and expertise.
<p>Staff scheduling</p> <ul style="list-style-type: none"> • Long commutes are an ongoing concern for operator staff. There was a discussion about how to best manage schedules to reduce the commute burden on their staff. • Sunnyvale has developed a report they will share with the group.
<p>Training and retaining expertise</p> <ul style="list-style-type: none"> • San Jose is redoing their OIT test and wants to reach out to other agencies for input. • There was a discussion about experience gaps between new and retiring staff, as well as the relative importance of breadth vs. depth of knowledge in different parts of a system
<p>Future meeting topics Future meetings will look at food waste programs, and air regulations. The committee will plan plant tours as part of future meetings, starting with the construction at Sunnyvale in Spring 2019.</p>
<p>Next Meeting: Delta Diablo, January 23</p>

Committee Request for Board Action: None

9/11 meeting: 22 attendees, representing 10 member agencies

10/9 meeting: 17 attendees, representing 14 member agencies

11/13 meeting: 27 attendees, representing 14 member agencies.

Regional Water Board Report-out

A new staffperson has been hired to replace Patrick Karinja as a permit writer. Other positions at the Water Board are also being filled and will be announced soon.

The State adopted new bacteria limits as follows: *The bacteria water quality objective for all waters where the salinity is greater than 10 ppt more than 5 percent 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.* Once the new limits are in effect, Regional Water Board staff will develop draft language to incorporate this requirement into permit, and circulate the language among the permits committee. West County may be the first agency with the new limits in the permit. The Regional Water Board is considering calculating limits for deep water dischargers using 10:1 dilution.

Upcoming Permits

December – Port Costa – No known issues.

January – West County – Could be first permit with new bacteria limits, see above.

March – Millbrae

April – SFPUC Oceanside – The planned RO facility is complicating the permitting, especially since there is no sampling point for the combined effluent and RO concentrate. They will be doing their toxicity testing analysis via the TST.

Chlorine Residual Basin Plan Amendment

At the November meeting, Tom Hall gave a [presentation](#) on the progress on the chlorine residual Basin Plan amendment. His proposal will replace the 0.0 mg/L instantaneous effluent limit with a 13 µg/L water quality objective, which will be applied as an effluent limit with dilution, and as a 1-hour average. He is still working on criteria for potential magnitude and duration of chlorine spikes, since different online chlorine analyzers collect data at different frequencies. He will have proposed Basin Plan language prepared in a couple of months, and CEQA documentation after that. For shallow water dischargers, a reporting limit will be established such that readings below that limit will not be considered violations.

Nutrients

- a. *2nd Watershed Permit* – The Nutrient Strategy Team met on 8/17, 9/21, and 10/25. The current thinking is that the Fact sheet will list current nutrient loads, plus an appropriate buffer as “planning level targets” for the 2024 permit. The Regional Water Board has calculated these “planning level targets” by taking the 95th percentile of loads for each agency and escalating by 15%. However, because of high variability in some agencies’ effluent data, these targets are close to or below some agencies current loads. The permit will include a discussion of future load caps, the importance of subembayments, as well as a description of the need for a trading scheme in the future. The permit will also recognize agencies that have begun capital projects to reduce nutrient loads.
- b. *Optimization/Upgrade Presentation to Regional Water Board* – HDR provided a [presentation](#) of the Optimization and upgrade studies to Regional Water Board staff on 9/17. HDR has worked with Regional Water Board staff to provide a presentation to the Water Board members at the 11/14 hearing.
- c. *NMS has won the NACWA Environmental Achievement Award.* The award will be presented in February.

Toxicity

- a. The State Water Board [posted](#) new draft Toxicity Provisions on October 19, as well as a Staff Report, and Response to Comments on the 2012 draft Toxicity Plan. Lorien Fono gave a [presentation](#) covering how the Provisions will change toxicity testing in Region 2, how reasonable potential will be determined, compliance limits, testing frequency, and laboratory scheduling. The committee recommended that BACWA comment on Reasonable Potential, how to qualify for reduced monitoring, and the timeline for scheduling MMEL testing.
- b. *Regional Water Board implementation* – The Regional Water Board does not plan to require Reasonable Potential Analyses, and will grant full dilution when determining Instream Waste Concentration.
- c. *Comments to the State Water Board* - Nov 28 hearing, and written comments are due Dec 7. Adoption is planned for April 2019.

Recycled Water Policy Amendment

The Recycled Water committee held a conference call with State Water Board staff on 10/2. Staff are committed to the termination of Regional Recycled Water permits, such as 96-011, but internally they are proposing extending the deadlines. They believe that transitioning agencies with pre-2001 Title 22 engineering reports will be more effort than those with newer engineering reports, and are considering a longer deadline for the older projects. The questions of recycled water production was also addressed on the call. The State Water Board does not believe that a separate permit would be required to cover production of recycled water at facilities not already covered by NPDES permits. Facilities such as satellite/scalping plants could simply apply for coverage under the State General Order. After the Recycled Water Policy is adopted, the State Water board will consider whether the General Order needs to be clarified.

Blair Allen, Regional Water Board, distributed a [spreadsheet](#) of the projects that are permitted under 96-011, and what information the Regional Water Board already has. He is considering a 'group enrollment' process that would effectively enroll all of our current inventory '96-011' cases into the new State General Order with one regulatory action (most likely, an authorization letter signed by RWQCB Executive Officer). To make this happen he will need good scanned copies of the following documents from each project:

- Technical Report (CCR title 22 Engineering Report)
- Report of Waste Discharge / NOI
- DDW/ CDPH /DOHS review /approval comment letter
- RWQCB Enrollment Authorization (in CIWQS, "Effective Date")

Some of the engineering reports may need updating. Melissa Gunter has a list of changes to Title 22 in 2001 that could be used to do the updates. We will discuss providing updates at our next meeting.

Leah Walker reported on meetings with State Water Board staff pertaining to the Section 1211 Wastewater Change Petition. Every recycled water project must be evaluated to determine whether a change petition is necessary. The Division of Water Rights is considering procedures to use and the supporting material that needs to be submitted to support a determination.

CECs

Diana Lin, SFEI, attended the October meeting and gave a [presentation](#) the results of the pharmaceuticals in wastewater study conducted in 2017. Based on the results of the pharmaceuticals study, 17 pharmaceuticals were prioritized for future monitoring. She also discussed the CEC multi-year plan, which will focus on the following areas:

- Pharmaceuticals
- Non-targeted analysis
- Moderate Concern CECs
 - PFAS
 - Fipronil
- Possible Concerns
 - Bisphenols
 - Phosphate flame retardants
 - Sunscreen
 - Agriculture pesticides

Triennial Review

The Regional Water Board approved the [2018 Triennial Review](#) at their September 12 meeting. The projects that were identified as high priority for the next three years are:

- Climate Change and Wetland Policy Update
- Review and Update of Policy 94-086 - Using Wastewater to Create, Restore, and Enhance Wetlands
- Review and Refine Dissolved Oxygen Objectives for San Francisco Bay
- Review and Implement Biological Assessment Tools
- Develop Numeric Nutrient Endpoints (NNEs) in Freshwater Streams and Estuaries
- Incorporate Revised U.S. EPA Recreational Water Quality Criteria for Bacteria
- Designate Tribal Tradition and Culture, Tribal Subsistence Fishing, and Subsistence Fishing Beneficial Uses in the San Francisco Bay Region

It was noted that it is unlikely that the final item, the designation of the new Beneficial Uses, is unlikely to be completed in the next three years due to limited staff resources. BACWA representatives attended the hearing and gave oral comments in support of the Triennial Review priorities.

PCB Petition Abeyance

When the Mercury/PCB Watershed Permit was adopted in 2012, BACWA filed a petition to the State Board protesting the use of Method 1668C for measuring PCB congeners as it has not been promulgated by EPA.

However, in the past 6 year, Method 1668C has not been required for compliance purposes. The committee supported continuing to hold the petition in abeyance.

BACWA Workshop on unintended consequences of conservation

On 9/24, BACWA hosted a workshop to provide insight into the technical challenges of designing, managing and operating wastewater treatment plants with rapidly changing conditions as a result of water conservation. The discussion at the workshop examined the linkages between impacts to treatment systems and recycled water programs from biological activity in collection systems related to reduced flows. Presentations from the Workshop are posted [online](#).

Announcements

- a. BACWA Annual Members Meeting Jan 11, 2019
- b. Regulatory Issues Matrix [Updated](#)
- c. RMP Annual Meeting was October 11
- d. BACWA [comments](#) on Wetlands Policy
- e. Risk reduction contracts approved to comply with Hg/PCB Watershed Permit

Next BACWA Permits Committee Meeting: Thursday, December 13, 2018 10:30am to 12:30 PM (With CASA RWG - Holiday Luncheon and White Elephant at downtown EBMUD.

The committee will begin meeting in even months in 2019.

Pretreatment Committee – Report to BACWA Board

Pretreatment Committee Meeting on: 6/14/2018
Executive Board Meeting Date: 11/16/18
Committee Chairs: Tim Potter, Michael Dunning

Committee Request for Board Action: None

6/14/18 Pretreatment Committee Meeting – 22 in-person attendees and 4 phone attendees representing 17 agencies

1. BACWA Updates
<ul style="list-style-type: none"> Nutrient reports finalized under the Nutrient Watershed Permit.
2. Discussion on Committee Projects
<ul style="list-style-type: none"> Mobile surface cleaners – Tim plans to contact targeted agencies for contact information to restart project. Resource template – work ongoing
3. Debrief PCA/PCI Experiences
<ul style="list-style-type: none"> Multiple agencies reported they received reports on their last PCA or PCI. Discussed findings and responses by agencies. One issue arising from several reports were findings not related to pretreatment program implementation (e.g. safety issues, hazardous waste standards). Plan to discuss this trend with Amelia Whitson to have such findings excluded from future PCI/PCA reports which she previously supported.
4. Experiences Categorizing IU Operations
<ul style="list-style-type: none">
5. Review NACWA Annual Workshop
<ul style="list-style-type: none"> Committee projects (Dental amalgam, Metal Finishers/TTO) Electronic submittals from IUs
6. Discuss Training Program/Resources for New Inspectors
<ul style="list-style-type: none"> Central San and USD reviewed their training programs for new inspectors including training resources and venues used (e.g. Cal EPA Basic Inspector Academy). Committee project identified to create a resource sheet identifying relevant training venues and resources for both new and journey level inspection staff.
7. Investigating Conductivity Discharges
<ul style="list-style-type: none"> Group discussion about likely sources of wastewater with high conductivity to target investigation into increased conductivity coming into headworks. Industries with RO systems and satellite recycling systems identified.
8. Discuss Resources for Bay Area Pretreatment Programs - Developing a website
<ul style="list-style-type: none"> Surveyed interest of members to pursue development of a committee webpage. Support for this project identified. Will contact Lorian to discuss options to develop under BACWA website. Will discuss format and content at a future meeting.
9. Sampling Training Planning for next fiscal year
<ul style="list-style-type: none"> Discussed targeted audience for this training to be field staff responsible for conducting sampling with a “nuts and bolts” emphasis. Identified options for delivery of training. Plan is to hold two sessions, one in the north and one in the south, to improve accessibility for member agencies’ staff.

<p>10. Cal EPA Sponsored Inspector Safety Training 7/26 & 27/18 at Central San</p> <ul style="list-style-type: none"> Announced training. Identified that number of participants from individual agencies is limited to make space available for different agencies to participate.
<p>11. State Water Board Staff Attending Future Meetings</p> <ul style="list-style-type: none"> SWRCB staff expressed interest in attending committee meetings. Consensus was to invite her to participate in the annual meeting (currently in January) when we invite Amelia Whitson and Michael Chee to participate.
<p>12. Committee leadership</p> <ul style="list-style-type: none"> Members endorsed maintaining current leadership for fiscal year 18-19. Members were encouraged to consider assuming one of the co-chair positions for the following year to promote leadership succession.
<p>13. Review meeting – Pros/Cons</p> <ul style="list-style-type: none"> Good space and turnout. Traffic was problematic for some agencies coming from north.
<p>14. General Discussion Topics</p>
<p>15. Next meeting: Fall 2018 at DSRSD in Pleasanton</p>

Committee Request for Board Action: None

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

9/18 - 19 attendees (including 11 on phone) representing 8 member agencies

10/30 - 28 attendees (including 9 on phone) representing 13 member agencies

AWWA Advance Treatment Operator Certification Update – Steven Garner, AWWA Certification Manager

A committee to develop an Advanced Treatment Operator certification was formed in 2015, in response to a need indicated by a 2014 survey of the industry. The program was developed and MOUs were recently signed by Cal/NV AWWA Boards. The first exams will be held in Spring, 2019. All Grades 3 to 5 operators that are qualified can start by taking the Grade 3 Advanced Treatment Operator exam. Having certified operators will not be mandatory for advanced treatment facilities. WRF is in the process of producing modules for DPR operators.

Recycled Water Policy Update

The committee held a conference call with State Water Board staff on 10/2. Staff are committed to the termination of Regional Recycled Water permits, such as 96-011, but internally they are proposing extending the deadlines. They believe that transitioning agencies with pre-2001 Title 22 engineering reports will be more effort than those with newer engineering reports, and are considering a longer deadline for the older projects. The questions of recycled water production was also addressed on the call. The State Water Board does not believe that a separate permit would be required to cover production of recycled water at facilities not already covered by NPDES permits. Facilities such as satellite/scalping plants could simply apply for coverage under the State General Order. After the Recycled Water Policy is adopted, the State Water board will consider whether the General Order needs to be clarified.

Blair Allen, Regional Water Board, distributed a [spreadsheet](#) of the projects that are permitted under 96-011, and what information the Regional Water Board already has. **He is considering a 'group enrollment' process that would effectively enroll all of our current inventory '96-011' cases into the new State General Order with one regulatory action (most likely, an authorization letter signed by RWQCB Executive Officer).** To make this happen he will need good scanned copies of the following documents from each project:

- Technical Report (CCR title 22 Engineering Report)
- Report of Waste Discharge / NOI
- DDW/ CDPH /DOHS review /approval comment letter
- **RWQCB Enrollment Authorization (in CIWQS, "Effective Date")**

Some of the engineering reports may need updating. Melissa Gunter has a list of changes to Title 22 in 2001 that could be used to do the updates. We will discuss providing updates at our next meeting.

Leah Walker reported on meetings with State Water Board staff pertaining to the Section 1211 Wastewater Change Petition. Every recycled water project must be evaluated to determine whether a change petition is necessary. The Division of Water Rights is considering procedures to use and the supporting material that needs to be submitted to support a determination.

[SB 966 - Onsite treated nonpotable water systems](#)

This bill passed, and will direct the State to work with the Building Standard and Housing and Community Development to develop recycled water for onsite systems by December 1, 2013.

BAIRWMP Update

- Draft 2018 IRWM Guidelines and Proposal Solicitation Package were released on 10/5/18
- Major changes from previous rounds include:
 - Funding Pre-application Workshop
 - Solicitation Schedule will be determined by Funding Area Need and Readiness
 - Available Funding based on Funding Area Need and Readiness
 - Standardized application
 - Changes made to CEQA and Labor Compliance requirements
- Comments are due on 11/20/18
- The divisions in functional areas and geographical area is not yet determined for the Bay Area
- Information from each funding area regarding by close of public comment date
 - Point of Contact (POC) – required to have one POC
 - Determine amount of funding for Round 1 by 11/20/18
 - Determine Workshop Date and Location – respond by 2/1/19
- Available Funds
 - Round 1 – General Implementation is \$22,750,000, with \$2,275,000 for DAC projects.
 - Split between for functional areas (Water Supply/Water Quality, WW/RW, Flood protection/Stormwater, Watershed Management/Habitat Protection) and regions (north, south, east, west).
- Prop 1 Grant Implementation Funds Project Concept Submittals
 - Sent out request on 10/1/18, and they are due by 11/16/18
 - Go to website at <http://bayareairwmp.org/> and submit online
 - Purpose is to give the CC and Process and Planning (PnP) an idea of the interest, provide an opportunity for feedback, and facilitate increased regional collaboration.

Clean Water SRF Policy Amendment

BACWA submitted [comments](#) to the State Water Board on the proposed amendments to their Clean Water State Revolving Fund (SRF) Policy. BACWA recommended changes to the primary scoring criteria to avoid penalizing recycled water projects. BACWA also recommended that loan allocations should be structured to ensure that some funding reaches smaller projects, and not just a small number of larger projects, as has happened in the past.

Next Meeting – Tuesday, January 15, 2018, 10:30 am to 12:30 pm, EBMUD Small Admin Training Room



Executive Director's September 2018 Report

NUTRIENTS:

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

- Coordinated with the OP/Upgrade consulting team on administrative issues in wrapping up the final tasks on their initial contract.
- Organized and participated in the monthly Contract Management Group conference call.
- Coordinated with the NMS Science Manager on presentations, meetings, and key issues on nutrients.
- Held the Pre-Pardee Nutrient Strategy Team meeting, with the Water Board invited to discuss approaches on watershed permit language to incentivize early actions to reduce nutrients.
- Worked with SFEI to plan for the 18th meeting of the NMS Steering Committee
- Coordinated with the HDR Project Manager on the schedule and budget for the additional tasks for preparation of the Op/Upgrade Report brochure and summary presentation to the Water Board.

BACWA BOARD MEETING AND CONFERENCES:

- Worked with staff in preparing for the September Board Meeting including review of the final agenda with the BACWA Chair and coordination with presenters.
- Organized and participated in the September Board Meeting and Pre-Pardee meeting.
- Continued to track all action items to completion.
- Planned for and conducted the Water Board briefing on the Op/Upgrade Report.



ASC/SFEI:

- As the Chair of the Governance Committee, coordinated with the SFEI Executive Director on committee activities.
- Participated in discussions to finalize the updating of the organization's strategic plan.
- Attended the quarterly ASC/SFEI Board of Directors meeting

COLLECTION SYSTEM COMMITTEE:

- Coordinated with the RPM on planning for the next Collection System Committee meeting and attended the September meeting.
- Coordinated with BACWA staff on the collaborative effort amongst CASA, SCAP and BACWA on review and commenting on the proposed revisions to the SWRCB's SSO WRD.

FINANCE:

- Reviewed the monthly BACWA financial reports with the AED.
- Coordinated with the AED in addressing issues and questions associated with the FY 19 annual invoices to the BACWA membership.

PERMIT COMMITTEE:

- Coordinated with the RPM for items to agendaize for the next Permit Committee meeting.
- Attended the September Permit Committee meeting which included Water Board staff and presented updates on BACWA issues.
- Attended the Water Board meeting where the Triennial Review of the priorities for updating the Basin Plan were discussed and adopted.



COLLABORATIONS:

- Coordinated with CASA Regulatory Program Manager and Executive Director on regulatory issues of mutual concern.
- Coordinated with the Bay Area Biosolids Coalition to discuss a potential role for BACWA in assisting with the administration of the Coalition's activities. Continued serving as contract administrator for a research effort with UC Merced.
- Coordinated with SCAP and their legal team on the next steps on the toxicity lawsuit against EPA
- Attended the annual WEFTEC conference (not as the BACWA rep) and attended sessions on nutrient technical and regulatory issues.

AIR COMMITTEE:

- Coordinated with the AIR Committee leadership on current regulatory issues.

WOT:

- Coordinated with Solano Community College in kicking-off the Fall 2018 BACWWE classes.
- Participated in a conference call with the BayWork group to continue discussing collaboration between BayWork and BACWWE.
- Represented BACWA/BACWWE on the newly formed EPA Workforce Convening effort to foster collaboration among public agencies in preparing to meet the workforce challenges of the future.
- Participated in conference calls to plan for the EPA hosted Workforce Convening event in Washington DC in November.

MANAGER'S ROUNDTABLE

- Planned for and participated in the September Bay Area Manager's Roundtable.



ADMINISTRATION:

- Planned for and conducted the monthly BACWA staff meetings to coordinate and prioritize activities.
- Held the monthly BACWA staff meeting to help coordinate future activities and plan for the next Board meeting.
- Signed off on invoices, reviewed correspondence, prepared for upcoming Board meetings, 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:

- 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



Executive Director's October 2018 Report

NUTRIENTS:

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

- Coordinated with the OP/Upgrade consulting team on administrative issues in wrapping up the final tasks on their initial contract.
- Negotiating with HDR on a contract to complete future Group Annual Reports.
- Communicated with the Contract Management Group on the next scheduled conference call.
- Coordinated with the NMS Science Manager on presentations, meetings, and key issues on nutrients.
- Held the Pardee Technical Seminar with the Water Board invited to discuss approaches on watershed permit language to incentivize early actions to reduce nutrients.
- Worked with SFEI to plan for the 19th meeting of the NMS Steering Committee
- Coordinated with the HDR Project Manager on the schedule and budget for the additional tasks for preparation of the Op/Upgrade Report brochure and summary presentation to the Water Board.

BACWA BOARD MEETING AND CONFERENCES:

- Worked with staff in preparing for the Pardee Technical Seminar including preparation of the final agenda and coordination with presenters.
- Continued to track all action items to completion.
- Planned for and conducted the Water Board briefing on the Group Annual Report



ASC/SFEI:

- As the Chair of the Governance Committee, coordinated with the SFEI Executive Director on committee activities.
- Arranged for the BACWA Board to find a replacement for a vacated seat on the ASC Board.

COLLECTION SYSTEM COMMITTEE:

- Coordinated with the RPM on planning for the next Collection System Committee meeting.
- Coordinated with BACWA staff on the collaborative effort amongst CASA, SCAP and BACWA on continuing to inform the SWRCB on issues with the proposed SSS WRD.

FINANCE:

- Reviewed the monthly BACWA financial reports with the AED.
- Updated the Five Year Plan in support of informing the Board on options for changing the Reserve Policy

PERMIT COMMITTEE:

- Coordinated with the RPM for items to agendaize for the next Permit Committee meeting.

LAB COMMITTEE:

- Coordinated with the Summit Partners on the next steps in finding a workable solution for all labs on meeting the challenges of implementing the TNI standards.



COLLABORATIONS:

- Coordinated with CASA Regulatory Program Manager and Executive Director on regulatory issues of mutual concern.
- Coordinated with the Bay Area Biosolids Coalition to discuss a potential role for BACWA in assisting with the administration of the Coalition's activities. Continued serving as contract administrator for a research effort with UC Merced.
- Coordinated with SCAP and their legal team on the next steps on the toxicity lawsuit against EPA
- Attended the annual WEFTEC conference (not as the BACWA rep) and attended sessions on nutrient technical and regulatory issues.

AIR COMMITTEE:

- Coordinated with the AIR Committee leadership on current regulatory issues.

WOT:

- Coordinated with Solano Community College in monitoring the Fall 2018 BACWWE classes.
- Participated in a conference call with the BayWork group to continue discussing collaboration between BayWork and BACWWE.
- Represented BACWA/BACWWE on the newly formed EPA Workforce Convening effort to foster collaboration among public agencies in preparing to meet the workforce challenges of the future.
- Participated in conference calls to plan for the EPA hosted Workforce Convening event in Washington DC in November.
- Participated in a conference call with Solano on changing the BACWWE funding model from contracting for credit hour classes to a student tuition based model.



MANAGER'S ROUNDTABLE

-Planned for and participated in the October Bay Area Manager's Roundtable.

ADMINISTRATION:

- Planned for and conducted the monthly BACWA staff meetings to coordinate and prioritize activities.
- Signed off on invoices, reviewed correspondence, prepared for upcoming Board meetings, 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.
- Provided comments to the Water Board on BACWA's interest in the selection of the new Executive Officer
- 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:

- 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 September 21, 2018 BACWA Executive Board Meeting & Pre-Pardee Seminar				
2018.9-40pp	SRF Score	check with Recycle Water Committee and let Tom M. know if we need support to change (RPM)	10/24/2018	Completed
2018.9-39pp	HDR Contract	develop contract with HDR for next GARs and omnibus work (ED)	10/24/2018	Completed
2018.9-38pp	2nd WS Permit	revise draft language to reflect discussion of naming individual plants in Fact Sheet (ED/RPM)	10/24/2018	Completed
2018.9-37pp	2nd WS Permit	assemble information on who is conducting pilot studies on nutrient reductions (ED/RPM)	10/24/2018	Completed
2018.9-36pp	2nd WS Permit	account for recycling in calculation of planning level targets (ED/RPM)	10/24/2018	Completed
2018.9-35pp	Classes of Membership	develop Resolution for conforming existing classes to JPA, no need to address other class issues, will handle case-by-case (AED)	10/24/2018	Completed
2018.9-34pp	BACWA staff	develop policy on role of ED, AED and RPM (AED)	10/24/2018	Completed
2018.9-33pp	Other Reps	add Board Policy on representing BACWA (ED)	10/24/2018	Completed
2018.9-32pp	2nd WS Permit	Get information (survey) about growth projections and early actions for 2nd WS permit (RPM/ED)	10/15/2018	Completed
2018.9-31pp	Executive Board Meeting Agenda	Agendize strategy to work with BAAQMD for November EB meeting (RPM/AED)	10/15/2018	Completed
2018.9-30pp	Nutrient Removal Costs vs Existing CIPs	Develop a plan for comparing nutrient removal cost estimates to existing CIPs (ED/RPM)	10/15/2018	Completed
2018.9-29pp	Water Board Staff	Schedule a meeting with Robert Schlipf to discuss averaging periods (ED and HDR)	10/15/2018	Completed
2018.9-28pp	Pardee Agenda	Agendize a discussion about nitrogen species (TIN) to be used as a frame of reference (ED)	10/15/2018	Completed
2018.9-27pp	Policies & Procedures	Discuss the policy for inviting 3rd party vendors to speak to the EB (ED/AED)	10/15/2018	Completed
2018.9-26	Policies & Procedures	Develop for Pardee Seminar	10/24/2018	Completed
2018.9-25	Add Board suggestions to future Agendas	Bay Area Chemical Consortium and BayCAN	11/16/2018	Completed
Action Items Remaining from Previous BACWA Executive Board Meetings				
2018.7-02	State level AIR & Water Regulatory conflicts	Take to next meeting of Summit Partners (ED)	9/30/2018	Pending
2018.7-01	BACWA Rep to RMP Tech Comm	Identify additional rep (Nirmela) and request Board approval (ED) put on Nov Agenda	11/30/2018	Completed

FY19 39 of 40 Action Items completed
 FY18 66 of 66 Action Items completed
 FY17: 90 of 90 Action Items completed
 FY16: 96 of 97 Action Items completed



DATE	AGENDA
12/3/2018	
Joint Meeting - Water Board Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono	<u>Other Business: Discussions</u>
12/21/2018	<u>Consent</u> Previous Board Meeting Minutes (AED) Monthly Financial Report <u>Authorizations & Approvals</u> <u>Other Business - POLICY/STRATEGIC</u> Discussion: WB Joint Meeting Debrief Discussion: Update on CASA Climate Change Program <u>Other Business - OPERATIONAL</u> Discussion: Annual Meeting Agenda Discussion: Budget Schedule & Key Issues <u>Reports</u> Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM) Other BACWA Representative Reports
Monthly Board Mtg Items due: 12/14 Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono; Hull HOLIDAY LUNCH COMMITTEE APPRECIATION LUNCH	
1/25/2019	
Annual Members Mtg Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono; Hull	Service & Leadership Recognition RMP & NMS Update EPA, CWRCB, RWCB, Air Dist,
2/15/2019	<u>Consent</u> Previous Board Meeting Minutes (AED) Monthly Financial Report <u>Authorizations & Approvals</u> Approval: <u>Other Business - POLICY/STRATEGIC</u> Discussion: Draft Agenda Joint Meeting with WB <u>Other Business - OPERATIONAL</u> Discussion: FY2019 Budget Planning - 1st Draft of FY19 Budget Discussion: Annual Meeting Debrief <u>Reports</u> Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED)
Monthly Board Mtg Items due: 2/8 Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono; Hull	

RPM Report (RPM) Other BACWA Representative Reports	
3/?/2019	
Joint Meeting - Water Board Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono	<u>Other Business: Discussions</u>
3/15/2019	
Monthly Board Mtg Items due: 3/8 Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono; Hull	<u>Consent</u> Previous Board Meeting Minutes (AED) Monthly Financial Report <u>Authorizations & Approvals</u> <u>Other Business - POLICY/STRATEGIC</u> Discussion: WB Joint Meeting Debrief <u>Other Business - OPERATIONAL</u> Discussion: Second Draft of FY20 Budget <u>Reports</u> Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM) Other BACWA Representative Reports
4/19/2019	
Monthly Board Mtg Items due: 4/12 Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono; Hull	<u>Consent</u> Previous Board Meeting Minutes (AED) Monthly Financial Report <u>Authorizations & Approvals</u> Approval: FY20 Budget <u>Other Business - POLICY/STRATEGIC</u> Discussion: Draft Agenda Joint Meeting with WB <u>Other Business - OPERATIONAL</u> Discussion: Update on BAAQMD Regulations Discussion: Update on regional and statewide biosolids issues Discussion: NBWA Conference Debrief <u>Reports</u> Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM) Other BACWA Representative Reports
5/?/2019	
Joint Meeting - Water Board Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono	<u>Other Business: Discussions</u>
5/17/2019	
Monthly Board Mtg Items due: 5/10	<u>Consent</u> Previous Board Meeting Minutes (AED) Monthly Financial Report

Schectel, Mitsuddy, White, Zipkin, Henderson
Williams; Fono; Hull

Authorizations & Approvals

Approval: FY19 Staff Consulting Amendments/Agreements

Approval: Officers: Chair & Vice-Chair FY19

Authorization (ED): Legal & IT Support Amendments FY19

Other Business - POLICY/STRATEGIC

Discussion: Water Board Jt Mtg Debrief

Discussion: CEC Update

Discussion: Update on regional and statewide biosolids issues

Other Business - OPERATIONAL

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

Other BACWA Representative Reports

6/21/2019 **Consent**

Monthly Board Mtg

Items due: 6/14

Schectel, Mitsuddy, White, Zipkin, Henderson
Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Financial Report

Authorizations & Approvals

Approval: FY19 Agreements

Approval: Confirm BACWA Rep to ASC/SFEI Jt Board

Other Business - POLICY/STRATEGIC

Discussion: WB Joint Meeting Debrief

Discussion: Update on CASA Climate Change Program

Other Business - OPERATIONAL

Discussion: BAAQMD Annual Meeting Draft Agenda

Discussion: CPSC Update

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)

ED Report (ED)

RPM Report (RPM)

Other BACWA Representative Reports

7/19/2019 **Consent**

Monthly Board Mtg

Items due: 7/12

Schectel, Mitsuddy, White, Zipkin, Henderson
Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Financial Report

Authorizations & Approvals

Approval: Annual Nutrient WS Payment

Approval: FY20 Agreements

Other Business - POLICY/STRATEGIC

Discussion: Water Board Jt Mtg Draft Agenda

Discussion: Draft Agenda Pre-Pardee Technical Seminar

Discussion: Risk Reduction Update

Other Business - OPERATIONAL

Discussion:

Reports

		Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM) Other BACWA Representative Reports
8/16/2019 Monthly Board Mtg Items due: 8/9 Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono; Hull	Consent Previous Board Meeting Minutes (AED) Monthly Financial Report Authorizations & Approvals Approval: BACWA Biennial Conflict of Interest Code Review Other Business - POLICY/STRATEGIC Discussion: Water Board Jt Mtg Draft Agenda Discussion: Draft Agenda & Schedule Pre & Pardee Technical Seminar Discussion: Membrane Aerated Biofilm Reactor (MABR) Research Discussion: RMP & NMS Update (Phil Trowbridge/David Senn) Other Business - OPERATIONAL Discussion: Options for Supporting the Bay Area Biosolids Coalition Reports Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM) Other BACWA Representative Reports	
8/?/2019 Joint Meeting - Water Board Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono	Other Business: Discussions	
9/20/2019 Monthly Board Mtg Items due: 9/13 Schectel, Mitsuddy, White, Zipkin, Henderson Williams; Fono; Hull	Consent Previous Board Meeting Minutes (AED) Monthly Financial Report Authorizations & Approvals Approval: Other Business - POLICY/STRATEGIC Discussion: Draft Agenda Pardee Technical Seminar Discussion: Regional 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	
9/20/2019 Pre-Pardee Seminar Schectel, Mitsuddy, White, Zipkin, Henderson	No Board Actions Permitted	

Williams; Fono; Hull

TENTATIVE: 10/17-18/2019 No Board Actions Permitted

Pardee Technical Seminar

Schectel, Mitsuddy, White, Zipkin, Henderson

Williams; Fono; Hull

11/15/2019 Consent

Monthly Board Mtg

Items due: 11/8

Schectel, Mitsuddy, White, Zipkin, Henderson

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)

Monthly Financial Report

Authorizations & Approvals

Approval: Adoption of FY19 Annual Reports

Other Business - POLICY/STRATEGIC

Discussion: Pardee Debrief & Survey

Discussion: Draft Agenda Joint Meeting with WB

Discussion: ReNEWIt Industrial Advisory Board Meeting Debrief

Other Business - OPERATIONAL

Discussion: Annual Meeting Planning

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

September 2018

NUTRIENTS: Participated in CMG call to review Optimization/Upgrade presentation to Regional Water Board and Group Annual Report (GAR). Reviewed GAR document. Reviewed potential permit language for second Watershed Permit. Updated Nutrient Surcharge spreadsheet data and calculations for second Watershed Permit term.

BACWA BULLETIN: Distributed September Bulletin. Drafted October Bulletin.

HG/PCBs: Drafted BAR for contract with CIEA.

WETLANDS: Drafted and submitted BACWA comments on Wetlands Policy.

TRIENNIAL REVIEW: Reviewed final 2018 Triennial Review Projects and drafted BACWA talking points for Regional Water Board adoption hearing.

CECs: Collected data for BACWA White Paper on POTW participation in RMP CEC studies. Reviewed POTW pharmaceutical report from the RMP.

LOW FLOWS WORKSHOP: Planned Low Flows Workshop logistics, and facilitated meeting.

COLLABORATIONS: Participated in CASA RWG conference call.

COMMITTEE SUPPORT:

Biosolids – Solicited responses to Biosolids Survey and developed presentation on preliminary results. Worked with chairs to prepare for meeting and attended meeting.

Collection Systems – Drafted agenda, and attended committee meeting.

Laboratory – Attended meeting. Finalized survey for committee support of signing onto SCAP letter on dual accreditation, and discussed letter with members.

Permits – Developed agenda, and participated in meeting. Planned October meeting presentation by RMP staff.

Recycled Water – Discussed satellite facility permitting with RWB staff. Attended meeting. Contacted State Water Board staff about planning a conference call to discuss Recycled Water Policy.

Executive Board – Prepared for and attended Executive Board and Pre-Pardee meetings. Worked with member agencies to describe air permitting issues to discuss with Executive Board. Edited action items and meeting minutes. Drafted notes from 8/23 joint meeting with Regional Water Board.

ADMINISTRATION/STAFF MEETING – Managed committee Google Groups. Updated documents on website. Met with BACWA staff for planning and BACWA operations.

MEETINGS ATTENDED:

Permits Committee (9/11), Lab Committee (9/10), CASA RWG call (9/13), Staff meeting (9/13), CMG call (9/14), Optimization and Upgrade review with RWB (9/17), Recycled Water Committee (9/18), Biosolids Committee (9/20), Executive Board and Prepardee meetings (9/21), Low Flows Workshop (9/24), Collection Systems Committee (9/27).



Regulatory Program Manager's Report to the Board

October 2018

NUTRIENTS: Developed survey on growth and nutrient planning. Analyzed survey results and developed presentation.

BACWA BULLETIN: Distributed October Bulletin.

CECs: Collected data for and started drafting BACWA White Paper on POTW participation in RMP CEC studies. Reviewed POTW pharmaceutical report from the RMP.

COLLABORATIONS: Participated in CASA call on SSS WDR. Participated in Summit Partners conference calls on proposed State Water Board Climate Change survey. Participated in POTW conference call on OPC Ocean Litter Strategy action items. Attended RMP Annual Meeting.

TOXICITY: Reviewed State Water Board draft toxicity provisions. Attended State Water Board Workshop.

COMMITTEE SUPPORT:

AIR – Reviewed materials, planned, and attended meeting. Discussed strategy for meeting with BAAQMD staff with committee leadership and BACWA Board.

BAPPG – Attended committee meeting. Discussed updates to baywise.org. Reviewed dichlobenil registration comment letter.

Biosolids – Solicited responses to Biosolids Survey and developed presentation on preliminary results.

Collection Systems – Planned November meeting.

Laboratory – Attended meeting.

Permits – Developed agenda, and participated in meeting.

Recycled Water – Drafted notes from September meeting. Drafted CWSRF Policy comment letter. Discussed 96-011 transition with RWB staff. Arranged and participated in call on Recycled Water Policy with committee and State Water Board staff. Reviewed agenda, attended October meeting.

Executive Board – Prepared for and attended Pardee Technical Seminar. Developed Regulatory Hot Topics presentation for Pardee, and updated Regulatory Issues Matrix.

ADMINISTRATION/STAFF MEETING – Managed committee Google Groups. Updated documents on website. Met with BACWA staff for planning and BACWA operations.

MEETINGS ATTENDED:

Recycled Water Policy Call with SWB Staff (10/2), BAPPG (10/3), CASA SSS WDR Conference Call (10/5), Summit Partners Climate Change Survey Call (10/6), OPC Ocean Litter Prevention conference call (10/9), Permits Committee (10/9), Lab Committee (10/10), RMP Annual Meeting (10/11), Summit Partners Climate Change Survey Call (10/12), Staff meeting (10/15), AIR Committee (10/17), Pardee Technical Seminar (10/25-26), Recycled Water Committee (10/30), staff meeting (10/30), SWB Toxicity Workshop (10/31).

Sherry Hull

From: Sherry Hull
Sent: Tuesday, October 2, 2018 7:27 PM
To: Sherry Hull
Subject: SFEI Board packet and Final Draft of SFEI Strategic Plan
Attachments: Final Board Packet for Sept 2018 SFEI-ASC Board Meeting.pdf; Draft SFEI Strategic Plan 2018-2025 v3.1 - PDF.pdf

From: Warner Chabot [<mailto:warnerc@sfei.org>]
Sent: Tuesday, September 25, 2018 7:08 PM
To: Warner Chabot <warnerc@sfei.org>
Subject: [board of directors + alter] SFEI Board packet and Final Draft of SFEI Strategic Plan

Dear Board members and Alternates –

Attached are two PDF documents for this Friday's (Sept. 28), SFEI-ASC Board meeting:

- 1) The Agenda and Background materials (minus the Draft Strategic Plan),
- 2) The Final Draft SFEI Strategic Plan.

The primary goals for this meeting are to:

- Discuss our Development Program progress and strategy
- Review and hopefully approve this Draft Strategic Plan
- Review and Approve new SFEI & ASC contracts

This **Final Draft SFEI Strategic Plan** builds on previous versions and attempts to incorporate a wide range of Board comments and suggested edits. If you are unable to attend the meeting, I welcome any comments by email.

Respectfully,

Warner Chabot

San Francisco Estuary Institute
W: 510 746-7396 Cell: 510 375-2141 E-mail: warnerc@sfei.org

DRAFT

San Francisco Bay Area IRWM Prop 1 Implementation Round Project Summary

Background Information

1. Agency Name
2. Contact Information (Name, title, agency/organization, phone number and email)

Project Summary

3. Project Title
4. Brief project description (3 paragraph maximum) including scope and location
5. Functional Area (Water Supply-Water Quality, Wastewater-Recycled Water, Flood Protection-Stormwater, Watershed, DAC)
6. Sub-region (North, West, East, South)

Project Schedule and Budget

7. Project schedule, including schedule for environmental review documentation and permitting, and construction
8. Project budget – please break out by major task (e.g. Environmental Review, Design, Construction, etc.)
9. Can the 50% cost share requirement be met? Cost share requirement for project benefiting a DAC of EDA may be waived or reduced.

Project Benefits

10. For construction projects, will the project have a lifecycle benefit of at least 15 years?
11. Does the project address critical water resource needs in the Bay Area Region (meet the intent of most critical statewide needs)?
12. Does the project address one or more of the Statewide Priorities as identified in CA Water Action Plan and DWR Prop1 IRWM Grant Program Guidelines? If so, identify which priorities are addressed.
13. Does the project benefit DACs and/or Tribes? If so, identify how.

See Table 1 on page 8

https://water.ca.gov/LegacyFiles/irwm/grants/docs/p1Guidelines/2016Prop1IRWMGuidelines_FINAL_07192016.pdf

DACIP project tracking spreadsheet for CC

EJCW/DWR Contract # 4600011979 - BA DACTIP															
Quarterly Status:															
Payments:															
Amendments:															
Grant Term: September, 2020															
Project # and title	Outreach Partner/Project Sponsor	Description of Project	DACs served / area of influence	Contract status/start date (most groups conducted pre-contract work)	First invoice submitted ? (Y/N)	Budget	Amount of budget spent (%)	Data/Mapping	Outreach	Admin/Outreach Partner Integration	Needs assessment	Needs Assessment Findings	Capacity building and TA	Outcomes to date	Next intended future outcomes/upcoming milestones
1. Coyote Creek Walkable Watershed Project	Keep Coyote Creek Beautiful (KCCB)	Developing a Walkable Watershed plan for Coyote Creek to outline green infrastructure development opportunities. Project elements include: <ul style="list-style-type: none">Partner Kickoff Meeting & Coalition Development (Months 1-3)Site Assessment/Existing Conditions (Months 2-5)Coalition Training & Capacity Building (Months 3-7)Community Outreach Plan & Toolkit Development (Months 7-10)	S. Jose along Coyote Creek	Contract – signed 7/31/18	Y	\$71,776	50% of total budget spent/received (requested \$35k of advanced payment)	- In-person meeting with Maddie to discuss data/mapping needs - Data/mapping phone call with SFEI to discuss: mapping data layers KCCB has requested; "gap" data they've requested that SFEI does not have, and subsequent strategy for collecting; options for mapping platform with shared editing capabilities	Using map layers/data to develop targeted outreach strategy	Attended DACIP full-day orientation; finalized workplan	In-person meeting with Maddie to 1) understand OP capacity, 2) tailor overarching needs assessment strategy to local context/finalize needs assessment portion of workplan	EJCW putting together training/skillshare curriculum for cohort to address identified needs and support engagement/needs assessment work	Attended Engagement with CC/Communications/Tribal Involvement Webinar	N/A	- Outreach strategy developed based on mapping data; tailored map of project area developed; first round of Needs Assessment conversations this fall; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October
2. Bay Area IRWM DAC Involvement Program	Friends of Sausal Creek (FOSC)	Project goals are to: <ul style="list-style-type: none">Expand community awareness of the relationship of the health of the creek and its watershedto enhance public access and enjoyment of the creek for the natural and cultural benefits it can providecatalyze projects that enhance water quality and habitat values in the creek corridor FOSC Proposes to do this through a community engagement process through tabling at community events, communicating with community members online, leading natural and cultural history walks, storytelling events, neighborhood meetings, community workdays, and environmental education field trips for students, developing a watershed map.	Oakland, (Fruitvale Neighborhood)	Contract – signed 8/20/18	Y	\$42,311	7.0%	- In-person meeting with Maddie to discuss data/mapping needs	Reaching out to other groups working in community to create coordinated outreach strategy; attending & tabling at community events in the Fruitvale	"	"	"	"	"	- Outreach and needs assessment strategy developed; tailored map of project area developed; first round of Needs Assessment conversations this fall; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October
3. Pt. Reyes & Dillon Beach Outreach Program	Marin County Community Development Agency (MCCDA)	1. Establish a public process that identifies and reaches out to stakeholders in 2 communities: Dillon Beach and Point Reyes Station. 2. Summarize available data on the scope of the water-related problems specific to each community. 3. Convene stakeholders in a series of workshops, trainings, and meetings to gain input and seek consensus on projects. 4. Summarize community input and direction. Identify next steps and project development, including the roles of participants. 5. Assist each community in obtaining necessary resources for the next step, e.g. provide technical assistance for feasibility studies.	Dillon Beach, Point Reyes Station	Contract – signed 8/7/18	N	\$49,076	Haven't yet submitted first invoice	"	Reaching out to community groups, refining project scope, communications, and outreach strategy	"	"	"	"	"	- Outreach and needs assessment strategy developed; tailored map of project area developed; first round of Needs Assessment conversations this fall; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October
4. Marin City & Canal District Outreach	Shore Up Marin (SUM)	Focus is on community outreach and education related to flooding, sea level rise, and water contamination. Project goals include 1. Determine what the key water issues are from the community perspective 2. Determine how government and experts see the issues to assure the community members are asked about all known issues as well as asked questions designed to elicit other concerns. 3. Conduct culturally competent outreach and education to support diverse disadvantaged community participation in identifying their priorities and understanding how to participate in DWR and other relevant processes to advocate for their needs. 4. Convene community members and government staff to identify and pursue remedies.	Marin City, San Rafael (Canal District)	Pending - 9/28/18 estimated signing date	N	\$54,956	Haven't yet submitted first invoice	"	On-boarding new community engagement specialist and finalizing outreach strategy	"	"	"	"	"	- Outreach and needs assessment strategy developed; tailored map of project area developed; first round of Needs Assessment conversations this fall; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October
5. W. Contra Costa Co. DAC Outreach	The Watershed Project (TWP)	Host community meetings and design charrettes: <ul style="list-style-type: none">inform the public about urban greening elements that can be implemented in their communitychoose among possible green infrastructure alternativesdesign interpretive features around greening infrastructureidentify potential projects to reduce stormwater flooding Outreach activities focused on public education: <ul style="list-style-type: none">hands-on service learning and volunteer work days at active restoration sites; talks, workshops, and interpretive walks and bike ridesParticipate in local fairs and festivals with our interactive displays; Student programs at local high schools using Rains to Roots curriculumHire local youth from local community colleges and local community members as local "block ambassadors"	Richmond, El Sobrante	Contract – signed 6/28/18	Y	\$79,980	11.7%	" + coordinating with regional efforts and agencies	Green Collar Corps member recruiting families for in-depth survey	"	" + began community-based groundtruthing on water needs at a community event in Richmond	"	"	"	Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October; preparing for community events where they will begin using surveys to get visual feedback on community's water priorities

DACIP project tracking spreadsheet for CC

EJCW/DWR Contract # 4600011979 - BA DACTIP															
Quarterly Status:															
Payments:															
Amendments:															
Grant Term: September, 2020															
Project # and title	Outreach Partner/Project Sponsor	Description of Project	DACs served / area of influence	Contract status/start date (most groups conducted pre-contract work)	First invoice submitted ? (Y/N)	Budget	Amount of budget spent (%)	Data/Mapping	Outreach	Admin/Outreach Partner Integration	Needs assessment	Needs Assessment Findings	Capacity building and TA	Outcomes to date	Next intended future outcomes/upcoming milestones
6. S. Sonoma Co DAC Outreach	Sonoma Ecology Center & Daily Acts (SEC & DA)	Conduct outreach, education, needs assessments, site assessments, and education, and technical assistance. <ul style="list-style-type: none">• GIS analysis on key water issues and produce maps to support public outreach efforts• Develop outreach materials on pollution prevention, flooding, water conservation, stormwater, green infrastructure, and other water-related topics,• Meet with residents in small groups or one-on-one, door-to-door outreach in key neighborhoods, presentations at community meetings.• Identify DAC water needs through site assessments• Write report on findings.	Petaluma, Penngrove, Cotati, Rohnert Park, Rodgers Creek (Creekside Village / Temelec / Chanterelle), The Springs	Contract – signed 7/12/2018	Y	\$50,050	14.6%	" + phone call with City of Hayward to understand how they can create a storymap similar to Tennyson Thrives storymap; analysis of existing data	- Translated existing Tribal outreach document; creating outreach postcard; adding programmatic elements to their website; planning outreach event(s) for November	"	"	"	"	"	- Outreach and needs assessment strategy developed; tailored map of project area developed; first round of Needs Assessment conversations this fall; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October
7. Hayward Water Management	Hayward Water Management (Hayward)	Work in collaboration with the Rising Sun Energy Center and Chabot Community College, focusing on the Tennyson Corridor in South Hayward to: <ul style="list-style-type: none">• Conduct a water needs assessment through post-program survey data collection and interviews.• Conduct focus groups and follow-up outreach throughout the fall of 2018	Tennyson Corridor	Contract – signed 7/31/18	N	\$50,000	Haven't yet submitted first invoice	" + phone call with SEC/DA to provide information about creation of Tennyson Thrives Storymap	Tabling; Palma Ciea Fest community event; Rising Sun Energy Center door-to-door outreach (canvassed 250 low income apartment units in Tennyson Corridor, got permission from property managers to go through higher density low income areas in Tennyson Corridor)	"	" + Rising Sun Energy Center implemented survey successfully: reached over 100 homes, installed water saving devices	"	"	- Rising Sun Energy Center Surveys; Data handoff to Chabot College	- Analysis of survey data; follow-up focus groups; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October
8. Water Management & Greeway Access Community Involvement Plan for Deep E. Oakland	Brower, Dellums Institute for Sustainable Policy Studies and Action (ISPS)	Goals are to: (1) Support an existing project that seeks to engage community members in the restoration of a channelized riparian zone, (2) Develop a design that assures safety and resilience in storm water management and (3) Proactive adaptive management-level design solutions in advance of sea level rise, (4) Enable equity and EJ principles applied to the engagement effort. Propose to do this through: public education, community-based research, collaboratively developing water needs and infrastructure plan, and report writing.	Oakland: Sobrante Park, Columbia Gardens, Brookfield Village	Pending - 9/28/18 estimated signing date	N	\$52,990	Haven't yet submitted first invoice	"	Reviewing information collected from past community meetings/work to create outreach and needs assessment strategy to build on previous work. Developing specific needs assessment questions from findings	"	"	"	"	N/A	- Outreach and needs assessment strategy developed; tailored map of project area developed; first round of Needs Assessment conversations this fall; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October
9. Disadvantaged Community Involvement Program Outreach	Greenaction for Health & Environmental Justice / Resilient Communities Initiative (Greenaction)	"Identify DACs/URCs, work with the DACs/URCs to investigate, understand, and describe water needs, and come up with a range of possible solutions arising out of community-based processes." <ul style="list-style-type: none">• Multilingual community outreach effort• Conduct 200+ surveys of community members• Organize 3+ community meetings• Compiling a database with information gathered from surveys, interviews and other public input• Analyze this information	Bayview, Hunters Point	Contract – signed 6/27/18	Y	\$67,463	3.0%	"	" + ongoing conversations with the BV Task Force, IVAN Network; participating in neighborhood meetings; developing community advisory group	"	"	"	"	"	Conducting community survey to understand, prioritize, and figure out what to do about identified issues; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October

DACIP project tracking spreadsheet for CC

EJCW/DWR Contract # 4600011979 - BA DACTIP															
Quarterly Status:															
Payments:															
Amendments:															
Grant Term: September, 2020															
Project # and title	Outreach Partner/Project Sponsor	Description of Project	DACs served / area of influence	Contract status/start date (most groups conducted pre-contract work)	First invoice submitted ? (Y/N)	Budget	Amount of budget spent (%)	Data/Mapping	Outreach	Admin/Outreach Partner Integration	Needs assessment	Needs Assessment Findings	Capacity building and TA	Outcomes to date	Next intended future outcomes/upcoming milestones
10. Funder's Needs Assessment	Resilient Communities Initiative (RCI)	Developing a Needs Assessment for Funders: to understand barriers to accessing funding for low-resource groups and communities, as well as Funders' barriers to addressing these needs	Bay Area-wide	Pending - 9/28/18 estimated signing date	N	\$32,223 - Pending	Haven't yet submitted first invoice	"	Beginning outreach through RCI	"	" + started process of Needs Assessment for Funder's and low-resource organizations at CAF	"	"	"	- Engaging more groups in process to create Funder's Needs Assessment; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October
11. South Vallejo Water Project	All Positives Possible (APP)	APP has been and will continue to gather data on So Vallejo's water quality that includes fish health, getting input from impacted South Vallejo community/neighbors/neighborhoods, agencies and elected officials, documents and research related to Vallejo's water quality in South Vallejo. - Working to address So Vallejo residents' reports of raw sewage around homes and in their yards, discolored water with foul odors, compromised water concerns, as well as the lack of supportive responses from water and health authorities whose responsibilities it is to address these concerns. - Have conducted surveys and will continue to conduct Community info sessions, research past and current needs and concerns from individual and communities' interviews and neighborhood canvassing to identify the needs, concerns and issues affecting South Vallejo residents and neighborhoods who continue to be the most neglected and least supported part of the City of Vallejo. - Working on collecting water samples when reports arise and to try and identify the sources of their drinking water contaminates and their sources. - Working on drafting outreach and engagement materials postcards, flyers, newspaper, radio, social media and tv interviews to help inform, educate and increase participation of South Vallejo residents. - Host South Vallejo neighborhood and community tours. Program Activities: • Engagement of local advisors in developing future water needs assessment. Three meetings with local leaders e.g. City of East Palo staff, Envision, Transform, Build (ETB) Coalition, and others identified by YUCA. • Learning sessions. Four two-hour learning sessions with BC/GTC staff to help the youth develop a general understanding of water resources management. These sessions will provide the youth with a framework for evaluating EPA's water needs. Sessions will cover various topics, including: Importance of water to EPA (defining the problem), Water systems (e.g., storage, treatment, distribution); supply sources and the importance of diversification, Governance/institutional considerations (e.g., the relationship between local, regional, and statewide water management); legal and regulatory drivers (e.g., California Assembly Bill 685 ("AB 685"), also known as the Human Right to Water Bill), and Possible solutions • Written Summary, PowerPoint, and Brochure of Research Findings. Development of a written summary (of the report that is already done...), PowerPoint and a brochure (i.e., a condensed version of the report) to summarize the story of EPA's water, highlight future concerns and considerations, and recommend solutions. YUCA members will develop the written summary and PowerPoint with technical assistance from the BC/GTC team. Depending on YUCA's desires, this work product could be published on their website, submitted to elected officials, and/or presented as a workshop to various members of their community. • Video. Partnership with BAYCAT to learn video production skills and collaboratively develop a short film on water equity. • Community Education Events; In partnership with Nuestra Casa, we will: o Forums and/or workshops done throughout the community to □ educate residents on water issues □ disseminate water report findings □ gather feedback on increasing EPA water shares to be presented at the SFPUC □ encourage residents to get involved in local and regional water conversations and work	Vallejo	Contract – signed 8/1/18	Y	63790 - Pending	50% of total budget spent/received (requested \$9k of advanced payment)	" + Data for Derr St and Marina Fish Survey - Observation of Fishing Habits; Raw sewage work not completed on going, 3 Community meetings Raw Sewage, 2 Drinking Water Quality	2 So Vallejo Community Canvassing; 4 Community meetings; Design No VMT ORCEM Postcards; 4 Community Meetings Water Quality Concerns related to Cement Plant activities; 3 Meetings for the Design of Barbershop Outreach Materials on going	"	" + 1 Orientation workshop completed more needed; 3 community hosted Agency Meeting; 5 South Vallejo Community Tours; Individual water company doing tap water quality testing	"	"	"	Needs assessment strategy developed; tailored map of project area developed; first round of Needs Assessment community conversations this fall; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October
12. East Palo Alto Water Equity Program	Nuestra Casa & Youth United for Community Action (YUCA)		East Palo Alto	Contract (Nuestra Casa)- signed 9/7/18	N	\$40,685 /\$34,950	Haven't yet submitted first invoice	- In-person meeting with Maddie to discuss data/mapping needs	- Creating training for promotoras	"	"	"	"	"	- Training promotoras; tailored map of project area developed; refined needs assessment strategy; first round of Needs Assessment community conversations this fall; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October

DACIP project tracking spreadsheet for CC

EJCW/DWR Contract # 4600011979 - BA DACTIP															
Quarterly Status:															
Payments:															
Amendments:															
Grant Term: September, 2020															
Project # and title	Outreach Partner/Project Sponsor	Description of Project	DACs served / area of influence	Contract status/start date (most groups conducted pre-contract work)	First invoice submitted ? (Y/N)	Budget	Amount of budget spent (%)	Data/Mapping	Outreach	Admin/Outreach Partner Integration	Needs assessment	Needs Assessment Findings	Capacity building and TA	Outcomes to date	Next intended future outcomes/upcoming milestones
13. DAC Public Outreach and Potential GI Projects Identification for Bay Point	Contra Costa Resource Conservation District (CCRCD)	<p>This project proposes to engage and educate the disadvantaged communities of Bay Point, Pittsburg, and Antioch regarding local water quality, flooding, and climate resilience, as well as to identify potential green infrastructure (GI) projects to improve water quality and reduce flooding potential within this unincorporated community</p> <ul style="list-style-type: none"> - Coordinate with regional efforts in order to gather information and develop relationships in neighborhoods; compile maps and community contact information; train community members in community planning processes - Identify areas of high needs based on technical assessment and community-based ground-truthing. - Design and facilitate 1 to 2 capacity building and technical assistance workshops/meetings to foster meaningful connections between equity and conservation in this community, and develop stakeholders list to invite to workshops. These include HOA's, environmental and community service clubs and governmental entities. The first one or two workshops will be focused on capacity building and technical assistance for water needs/assessment - Support watershed education opportunities and training in Bay Point and surrounding communities focused on water literacy for high school and young adults 	Antioch, Pittsburg, Bay Point	Pending - 9/28/18 estimated signing date	N	\$64,999 (\$43,333 for Pittsburg/Antioch, \$21,666 for Bay Point)	Haven't yet submitted first invoice	"	Developing needs assessment strategy to use findings to create outreach strategy	"	"	"	"	"	- Outreach and needs assessment strategy developed; tailored map of project area developed; first round of Needs Assessment community conversations this fall; Attending in-person Engagement/Needs Assessment Workshop/Skillshare in October; coordinating DACIP with GI Plan Update
14. Tribal Outreach	California Indian Environmental Alliance (CIEA)		Bay Area-wide	Pending - 9/28/18 estimated signing date	N	\$497,000	16.0%								