



**Executive Board Meeting
AGENDA**
Friday, March 17, 2023 9:00 AM - 11:30 AM (PDT)
Orinda Watershed Headquarters
500 San Pablo Dam Rd, Orinda CA, 94563
To attend the meeting via Zoom or submit a comment please
[request access.](#)

<u>Agenda Item</u>	<u>Time</u>	<u>Pages</u>
ROLL CALL, INTRODUCTIONS, AND TELECONFERENCE ETIQUETTE	9:00 AM	
PUBLIC COMMENT Guidelines	9:05 AM	
CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER		
In Memoriam: David Williams	9:10 AM	3
CONSENT CALENDAR	9:20 AM	
1 February 17, 2023 BACWA Executive Board meeting minutes		4-9
2 January 2023 Treasurer's Report		10-20
POLICY/STRATEGIC	9:25 AM	
3 <u>Discussion:</u> Communications RFQ		
4 <u>Discussion:</u> Proposed WRAP Workshop - May 2023 WRAP Action 2.16 Final Report		
5 <u>Discussion:</u> Feb 9 BACWA/BAAQMD Reg 2 Workgroup next steps		21-25
6 <u>Discussion:</u> SSS WDR next steps		
7 <u>Discussion:</u> March 7 SFEP/TRUW Equity Workshop for Wastewater Debrief		26
8 <u>Discussion:</u> Risk reduction for 2022 Hg/PCB Watershed Permit BACWA's Risk Reduction Page		
9 <u>Discussion:</u> Nutrient Governance		
i. Feb 22 Planning Subcommittee minutes		27-34
ii. March 10 Draft NMS Steering Committee minutes		
10 <u>Informational:</u> PFAS data schedule		35
11 <u>Informational:</u> Air toxics testing update		36
12 <u>Informational:</u> BACWA/CASA Letter on CMSA Permit		37-40
13 <u>Discussion:</u> Request to fund Water Conservation and Indoor Use Project		41
5 MIN BREAK		
OPERATIONAL	10:30 AM	
14 <u>Discussion:</u> Annual Meeting Draft Program		42
15 <u>Discussion:</u> Draft FY24 Budget - review of proposed budget and discussion of collaboratives		43-58
16 <u>Discussion:</u> 5-year plan and target reserve levels		59-62
17 <u>Informational:</u> Form 700 reminder		
18 <u>Informational:</u> BACC Update and Bid results		63-69
REPORTS	11:20 PM	
19 Committee Reports		70-72
20 Member highlights		
21 Executive Director Report		73-74
22 Board Calendar and Action Items		75-76
23 Regulatory Program Manager Report		77
24 Other BACWA Representative Reports		
a. RMP Technical Review Committee	Mary Lou Esparza, Yuyun Shang, Samantha Engelage	
b. RMP Steering Committee	Karin North; Amanda Roa; Eric Dunlavey	
c. Summit Partners	Lorien Fono; Amit Mutsuddy	
d. ASC/SFEI	Lorien Fono; Amit Mutsuddy; Lori Schectel	
e. Nutrient Governance Steering Committee	Eric Dunlavey; alternates: Lori Schectel	
e.i Nutrient Planning Subgroup	Eric Dunlavey	
f. SWRCB Nutrient SAG	Lorien Fono	
h. BAIRWMP	Cheryl Munoz; Florence Wedington; Lorien Fono	
i. NACWA Emerging Contaminants	Karin North; Melody LaBella	
j. CASA State Legislative Committee	Lori Schectel	
k. CASA Regulatory Workgroup	Lorien Fono; Mary Cousins	
l. RMP Microplastics Liaison	Artem Dyachenko	

m. Bay Area Regional Reliability Project	Jackie Zipkin		
n. WateReuse Working Group	Cheryl Munoz		
o. San Francisco Estuary Partnership	Lorien Fono; Jackie Zipkin		
p. CPSC Policy Education Advisory Committee	Colleen Henry		
q. California Ocean Protection Council	Lorien Fono		
r. Countywide Water Reuse Master Plan	Karin North, Pedro Hernandez		
s. CHARG - Coastal Hazards Adaptation Resiliency Group	Jackie Zipkin		
t. California Water Quality Monitoring Council	Lorien Fono		
25 SUGGESTIONS FOR FUTURE AGENDA ITEMS		11:29 PM	
NEXT MEETING			
The next meeting of the Board is scheduled for April 21, 2023 at SFPUC			
ADJOURNMENT		11:30 PM	

IN MEMORIAM – DAVID WILLIAMS



It is with great sadness that BACWA shares the news of Dave Williams' passing on Wednesday, March 1. Dave served BACWA as our Executive Director from 2013 to 2020. Dave was deeply committed to public service and he was passionate about protecting the environment. Dave served as a friend and mentor to many of us in the BACWA community, and his loss is deeply felt on a personal as well as a professional level.

Dave served at our helm while BACWA achieved many milestones and accomplished significant objectives, including garnering support for practical science-based regulation, particularly related to nutrients and contaminants of emerging concern, fostering broad collaboration amongst the membership and regulatory bodies, and successfully managing BACWA's finances. During his tenure as BACWA's Executive Director, Dave ensured that the region's needs and concerns were clearly communicated at local, state, and national forums.

During his long career, Dave was the Director of Wastewater for the East Bay Municipal Utility District in Oakland, and served on the Board of Directors of the Central Contra Costa Sanitary District. Dave served as a Board Member of the San Francisco Estuary Institute/Aquatic Science Center and was a past President of both the National Association of Clean Water Agencies and the California Association of Sanitation Agencies. He was a registered Professional Engineer and held a Bachelor of Science Degree in Civil Engineering and a Master of Science Degree in Civil/Sanitary Engineering from Purdue University, as well as a Master of Science Degree in Business Administration from U.C. Berkeley.



Executive Board Meeting

Friday, February 17, 2023

ROLL CALL AND INTRODUCTIONS

Executive Board Representatives: Amy Chastain (San Francisco Public Utilities Commission); Eric Dunlavey (City of San Jose); Jackie Zipkin (East Bay Dischargers Authority); Lori Schectel (Central Contra Costa Sanitary District); Amit Mutsuddy (East Bay Municipal Utility District).

Other Attendees and Guests:

Name	Agency/Company
Amanda Roa	Delta Diablo
Azalea Mitch	City of San Mateo
Blake Brown	CCCSD
Brett Fergusson	Hazen & Sawyer
David Donovan	City of Hayward
Don Gray	EBMUD
Jared Voskuhl	CASA
Jeff Carson	DSRSD
Jennifer Dymant	BACWA
Jennie Pang	SFPUC
Lorien Fono	BACWA
Joe Neugebauer	West County Wastewater District
Jordan Damerel	FSSD
Mary Cousins	BACWA
Melody Tovar	City of Sunnyvale
Michael Connor	Consultant
Mike Falk	HDR
Ryujiro Tsuchihashi	Jacobs
Talyon Sortor	FSSD
Tom Hall	EOA

Amit started the meeting at **9:05**

ROLL CALL, INTRODUCTIONS, AND TELECONFERENCE ETIQUETTE

PUBLIC COMMENT

None

CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER

Item 18 moved

CONSENT CALENDAR

- 1 Resolution to continue teleconferencing Executive Board meetings (AB361)
- 2 January 17, 2023 BACWA Special Board Meeting minutes
- 3 January 20, 2023 BACWA Executive Board meeting minutes
- 4 Feb 3, 2023 BACWA NST Special Executive Board meeting minutes
- 5 December 2022 Treasurer's Report

Consent Calendar Items 1 thru 5: A motion to approve was made by Jackie Zipkin (East Bay Dischargers Authority) and seconded by Eric Dunlavey (City of San Jose). The motion was approved unanimously.

The resolution to continue teleconferencing (Item 1 on the Consent Calendar) will expire on February 28th due to the end of the California State of Emergency, upon which AB 361 (2021) relies to allow teleconferencing of public meetings.

POLICY/STRATEGIC

6 Discussion: Communications RFQ – BACWA ED shared that BACWA will soon be releasing an RFQ for public outreach support in FY23. Statements of qualifications will be due March 10.

7 Discussion: BAPPG Professional Training Support RFQ - BACWA RPM shared that BAPPG will be releasing an RFQ for FY24. This contract supports professional outreach on topics like pesticides, pharmaceuticals, and dental mercury. Per BACWA's contracting policy, the current contract expires in June, which is the end of its fifth year.

8 Informational: Sustainable Pest Management Representation - BACWA RPM shared that the California Department of Pesticide Registration (CA-DPR) has released a [Sustainable Pest Management Roadmap](#). BAPPG is looking for a representative from a BACWA member agency to help encourage the state to implement the roadmap and increase funding for CA-DPR. Representatives from Central San and San Jose noted that they may have staff members who would be able to serve in this role. Attendees also encouraged coordination with stormwater agencies and NGOs. A CASA representative was present and supported the concept of a comment letter from CASA to CA-DPR in addition to BACWA's planned comment letter.

Action item: BACWA RPM to develop a draft comment letter to share with the Executive Board and CASA.

9 Discussion: Feb 9 BACWA/BAAQMD Reg 2 Workgroup meeting debrief - BACWA ED summarized meeting topics and discussions. BACWA will develop a draft Board item summarizing the tasks that have been undertaken by the joint Workgroup. This will also serve to bring the new BAAQMD Executive Officer up to date with the progress of the Workgroup. Other attendees shared points from the meeting. Attendees were pleased with the progress BACWA and BAAQMD are making together.

10 Discussion: SSS WDR next steps - BACWA RPM referred to document in the packet. This document will be revised slightly based on feedback from Collection Systems Committee chairs. The reissued SSS-WDR becomes effective on June 5th. There are items to be implemented before and after the effective date. Before June 5th, BACWA will be directing our members to training opportunities hosted by CASA and CWEA. Most agencies need to review & update their monitoring and reporting of spills and complete other administrative tasks, such as re-enrolling. After June 5th, BACWA will provide guidance on updating sewer system management plans, which must be updated to follow the reissued SSS-WDR beginning in 2025.

11 Discussion: SFEP/TRUW Equity Workshop for Wastewater - March 7 - BACWA ED reminded attendees that registration is open for the workshop. The [registration link](#) is on the BACWA website. BACWA ED encouraged attendance. BACWA was asked to pay for the catering for the lunch. The estimate was no more than \$1500. Board members expressed support for BACWA paying for lunch.

12 Informational: PFAS data schedule - BACWA ED shared that data from Phase 2 of the study are still not available.

13 Informational: Air toxics testing update - BACWA ED shared the CARB CTR Two-Step Process cost estimate by agency based on permitted dry weather flow capacity (MGD). CASA will likely administer this program. The group discussed how the invoicing may happen. BACWA may collect funds from its members and pass through to CASA. Agencies should budget for the study beginning in FY24.

OPERATIONAL

14 Discussion: Annual Meeting Draft Program - BACWA ED reviewed proposed program, reviewed speakers and layout of the day. The group suggested changes to the timing of the program and speakers \ topics but overall liked program. The group would like the upgraded AV package to include recording the speakers.

Action item: BACWA ED to bring an updated draft program on March 17, 2023 and add upgraded AV package to contract.

Break 10:45-11:00

15 Discussion: Draft FY24 Budget - BACWA ED and AED reviewed the draft FY24 budget line by line. The new lines are highlighted in yellow. Joe Neugebauer presented information about the BAPPG Committee, their consultants and work as well as their budget request. At the March meeting we will evaluate the various collaborative requests using the criteria developed in FY22.

Action items: BACWA ED and AED will update the draft FY24 budget and present a second version at the March 17, 2023 meeting.

16 Informational: BACC Update - BACWA ED shared that the bid will be opened on 2/23/2023 and preliminary bid tabulations will be posted on the BACC website on 2/24/2023. Submitted documents will be reviewed in the first couple weeks of March. We will make recommendations and bids will be awarded by the end of March.

NUTRIENTS

17 Discussion: Nutrients

a. Technical Work

i. Modeling Advisory Group update - BACWA ED shared the charge questions presented to the modeling advisory group members and summarized their recommendations for model improvement. The group is generally impressed with the status of the model and the pace of progress. The model is ready for investigating key science questions and management scenarios. The group discussed the inability of this model to predict initiation of a bloom or the bloom species, but it can describe the impacts to the Bay (such as dissolved oxygen impacts) if a bloom is initiated. Next steps need to be discussed before models are used to probe future scenarios.

Action item: BACWA ED to share slides from the Regional Water Board staff member's presentation at the February 1st NMS planning subcommittee committee meeting.

ii. SCCWRP Update - BACWA ED presented 3 draft charge questions for the independent review panel of ocean acidification and hypoxia modeling. BACWA ED was asked to be part of the steering committee guiding the effort.

b. Regulatory

i. 2022 GAR Submission Group Annual Report - BACWA ED asked how we can continue to improve the GAR. We have added sections of recycled water, the analysis of influent data, and identifying agencies that are reducing nutrients, all of which have significantly lengthened the summary section. The BACWA ED will provide recommendations to the consultant team to streamline the report for next year.

ii. 2023 Science Plan Update Submission - BACWA ED explained that the science plan update was submitted to the Regional Water Board by February 1st, as required by the Nutrient Watershed Permit.

iii. Debrief from 2/3 NST meeting - BACWA ED summarized BACWA's draft narrative position on the 3rd Nutrient Watershed Permit based on the most recent Nutrient Strategy Team meeting. One of the items on this list is that BACWA is developing a rough estimate of the load reduction that is expected in the next 5-10 years based on individual discussions with the largest dischargers in the region over the last two months. Attendees discussed the pros and cons of including affordability as part of the narrative position. The narrative will be turned into a presentation for the Regional Water Board in the coming months. The BACWA ED will provide a draft presentation at the next NST meeting on March 17th.

iv. Five year plan to draw down excess CBC reserves - BACWA ED presented two alternatives for drawing down reserves over the next two to five years, depending on the level of financial commitment to the NMS. Discussion was deferred to a future date.

c. Governance

i. Feb 1 Planning Subcommittee minutes - Minutes were provided in the packet.

REPORTS

18 Committee Reports - BACWA RPM shared that chlorine basin plan amendment will not be approved by EPA due to feedback received from the federal resource agencies such as USFWS. The Regional Water Board is investigating alternative methods for establishing water quality-based effluent limits. The group discussed options. The group will be meeting with Regional Water Board staff in April and will discuss possible next steps at that time.

19 Member highlights

20 Executive Director Report

21 Board Calendar and Action Items

22 Regulatory Program Manager Report

23 Other BACWA Representative Reports

a. RMP Technical Review Committee Mary Lou Esparza, Yuyun Shang, Samantha Engelage

b. RMP Steering Committee Karin North; Amanda Roa; Eric Dunlavey

c. Summit Partners Lorien Fono; Amit Mutsuddy

d. ASC/SFEI Lorien Fono; Amit Mutsuddy; Lori Schectel

e. Nutrient Governance Steering Committee Eric Dunlavey; alternates: Lori Schectel

e.i Nutrient Planning Subgroup Eric Dunlavey

f. SWRCB Nutrient SAG Lorien Fono

h. BAIRWMP Cheryl Munoz; Florence Wedington; Lorien Fono

i. NACWA Emerging Contaminants Karin North; Melody LaBella

j. CASA State Legislative Committee Lori Schectel

k. CASA Regulatory Workgroup Lorien Fono; Mary Cousins

l. RMP Microplastics Liaison Artem Dyachenko

m. Bay Area Regional Reliability Project Jackie Zipkin

n. WaterReuse Working Group Cheryl Munoz

o. San Francisco Estuary Partnership Lorien Fono; Jackie Zipkin

p. CPSC Policy Education Advisory Committee Colleen Henry

q. California Ocean Protection Council Lorien Fono

r. Countywide Water Reuse Master Plan Karin North, Pedro Hernandez

s. CHARG - Coastal Hazards Adaptation Resiliency Group Jackie Zipkin

t. California Water Quality Monitoring Council Lorien Fono

24 SUGGESTIONS FOR FUTURE AGENDA ITEMS

NEXT MEETING

The next meeting of the Board is scheduled for March 17, 2023

ADJOURNMENT at 12:31



Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

February 15, 2023

MEMO TO: Bay Area Clean Water Agencies Executive Board
MEMO FROM: Samuel Feldman-Crough, Treasurer, East Bay Municipal Utility District
SUBJECT: Seventh Month FY 2023 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, 2022 through January 31, 2023** (Seven months of Fiscal Year 2023). 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),
- Bay Area Biosolids Coalition (BABC),
- Bay Area Chemical Consortium (BACC),
- BACC Legal Reserve Fund (BACC Legal Rsrv),
- Water/Wastewater Operator Training (WOT),

Houck, Matt

From: Feldman, Samuel
Sent: Friday, February 17, 2023 1:00 PM
To: Houck, Matt
Subject: RE: January 2023 Treasurer's Report

Approved. Thank you!

Sam Feldman (he/him/his)
Manager of Budget
office: (510) 287-0441
mobile: (510) 882-6860

From: Houck, Matt <matt.houck@ebmud.com>
Sent: Wednesday, February 15, 2023 4:01 PM
To: Feldman, Samuel <samuel.feldman@ebmud.com>
Subject: January 2023 Treasurer's Report

Hi Samuel,

Please approve BACWA - January 2023 Treasurer's Report for distribution.

Thanks,

Matt Houck

Accountant II
East Bay Municipal Utility District
375 11TH St, MS 402, Oakland, CA 94607
P 510-287-0238



MONTHLY FINANCIAL SUMMARY REPORT

January 2023

Fund Balances

In FY23 BACWA has three operating funds (BACWA, Legal, and CBC) and three pass-through funds for which BACWA provides only contract administration services (WOT, BABC & BACC). As of October 31st, 2021, revenues are recognized when billed, not when payments are received.

BACWA Fund: This fund provides resources for BACWA staff, its committees, and other administrative needs. The ending fund balance on January 31, 2023, was \$743,489 which is significantly higher than the target reserve of \$229,098 which is intended to cover 3 months of normal operating expenses based on the BACWA FY22 budget. \$362,462 of the ending fund balance is shown on the BACWA Fund & Investments Balance Report January 31, 2023, as encumbered to meet ongoing 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 unencumbered reserve of \$154,929 (i.e., actual fund balance of \$381,027 less target reserves) as of January 31, 2023.

CBC Fund: This fund provides the resources for completing special investigations as well as meeting regulatory requirements. The ending fund balance on January 31, 2023, was \$3,071,599 which is higher than the target reserve of \$1,000,000. \$545,908 of the ending fund balance is encumbered to meet line-item expenses for completion of the Group Annual Report contract, completion of the NBS Study, Recycled Water Evaluation, and the PFAS Regional Study. This leaves an actual unencumbered reserve balance of \$1,525,691 (i.e., actual fund balance of \$2,525,691 less target reserves) as of January 31, 2023. As directed by the BACWA Executive Board, the CBC fund has diminished over time due to BACWA's ongoing funding of the NMS program to comply with the Nutrient Watershed Permit.

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 to maintain the BACWA and CBC Fund balances at the levels projected in the 5 Year Plan.

Revenues as of January 31, 2023 (58% of the FY) are at 99%

Expenses as of January 31, 2023 (58% of the FY) are at 45%

**FY 2023
BACWA BUDGET to ACTUAL**

							
BACWA FY23 BUDGET	Line Item Description	FY 2023 Budget	Projected Revenue as of Jan 2023 Changes from budget in blue	Actual Jan 2023	Actual % of Budget Jan 2023	Variance	NOTES
REVENUES & FUNDING							
Dues	Principals' Contributions	\$527,250	\$527,250	\$527,250	100%	\$0	FY23: 2% increase 5 @ \$105,450
	Associate & Affiliate Contributions	\$187,793	\$187,793	\$186,845	99%	-\$948	FY23: 2% increase. 12 Assoc: \$8702; 47 Affiliate: \$1743
Fees	Clean Bay Collaborative	\$675,000	\$675,000	\$674,250	100%	-\$750	Prin: \$450,000; Assoc/Affil: \$225,000
	Nutrient Surcharge	\$1,400,000	\$1,400,000	\$1,399,980	100%	-\$20	See Nutrient Surcharge Spreadsheet
	Voluntary Nutrient Contributions			\$0	0%	\$0	
Other Receipts	AIR Non-Member	\$7,217	\$7,217	\$7,217	100%	\$0	2% increase (Santa Rosa)
	BAPPG Non-Members	\$4,033	\$4,033	\$4,033	100%	\$0	2% increase (Sta Rosa, Sac Reg'l, Vacaville) \$1,344/each
	Other		\$18,489	\$2,653		\$2,653	reimbursement for four party funds
Fund Transfer	Special Program Admin Fees (WOT)	\$5,202	\$1,000	\$0	0%	-\$5,202	
	Special Program Admin Fees (BACC)	\$36,000	\$36,000	\$0	0%	-\$36,000	400 hours of AED support \$90/hr
	Special Program Admin Fees (BABC)	\$6,000	\$4,000	\$0	0%	-\$6,000	ED, AED and RPM support
Interest Income	LAIF	\$4,000	\$24,034	\$24,034	601%	\$20,034	BACWA, Legal, & CBC Funds invested in LAIF - higher rates than anticipated
	Higher Yield Investments						
	Total Revenue	\$2,852,495	\$2,884,816	\$2,826,262	99.08%	-\$26,233	
BACWA FY23 BUDGET							
BACWA FY23 BUDGET	Line Item Description	FY 2023 Budget	Projected Expense as of Jan 2023 Changes from budget in blue	Actual Jan 2023	Actual % of Budget Jan 2023	Variance	NOTES
EXPENSES							
Labor							
	Executive Director	\$204,250	\$204,250	\$102,128	50%	-\$102,122	7.5% increase (flat in FY22)
	Assistant Executive Director	\$86,004	\$86,004	\$42,368	49%	-\$43,636	7.5% over FY21; \$71.67/hour; Reflects 1200 hours
	BACC Administrator	\$36,000	\$36,000	\$17,820	50%	-\$18,180	400 hrs AED support at \$90 per hr
	Regulatory Program Manager	\$142,223	\$142,223	\$67,823	48%	-\$74,400	7.5% increase (flat in FY22); \$103.35/hour, Reflects 1350 hours
	Total	\$468,477	\$468,477	\$230,139	49%	-\$238,338	
Administration							
	EBMUD Financial Services	\$43,297	\$43,297	\$20,650	48%	-\$22,647	2% increase
	Auditing Services	\$5,452	\$5,452	\$0	0%	-\$5,452	Financial Auditors through EBMUD; per auditor rate schedule
	Administrative Expenses	\$8,118	\$8,118	\$0	0%	-\$8,118	2% increase over FY22
	Insurance	\$8,132	\$7,571	\$7,571	93%	-\$561	15% increase over FY22 actual
	Total	\$64,999	\$64,438	\$28,221	43%	-\$36,778	
Meetings							
	EB Meetings	\$2,706	\$2,706	\$404	15%	-\$2,302	2% increase from FY22
	Annual Meeting	\$14,369	\$14,369	\$0	0%	-\$14,369	2% increase from FY22
	Pardee	\$6,668	\$3,432	\$3,432	51%	-\$3,236	2% increase from FY22
	Misc. Meetings	\$5,412	\$5,412	\$3,525	65%	-\$1,887	2% increase from FY22
	Total	\$29,155	\$25,919	\$7,362	25%	-\$21,793	
Communication							
	Website Hosting	\$714	\$714	\$189	27%	-\$525	2% increase from FY22, Go Daddy website hosting and domain registration
	File Storage	\$780	\$780	\$0	0%	-\$780	2% increase from FY22, box.net
	Website Development/Maintenance	\$1,561	\$1,561	\$638	41%	-\$923	2% increase from FY22
	IT Support	\$2,705	\$2,705	\$0	0%	-\$2,705	2% increase from FY22
	Other Commun	\$1,821	\$1,821	\$404	22%	-\$1,417	2% increase from FY22; MS Exchange, Survey Monkey, PollEv, Zoom, Netfile
	Total	\$7,581	\$7,581	\$1,231	16%	13 -\$6,350	

FY 2023
BACWA BUDGET to ACTUAL

EXPENSES							
Legal							
Regulatory Support	\$2,871	\$2,871	\$320	11%	-\$2,551	2% increase from FY22, Downey Brand LLP	
Executive Board Support	\$2,309	\$2,309	\$0	0%	-\$2,309	2% increase from FY22, Day Carter & Murphy LLP	
Total	\$5,181	\$5,181	\$320	6%	-\$4,861		
Committees							
AIR	\$96,000	\$96,000	\$43,901		-\$52,099	\$75k consulting support, \$20k support for ACE, \$1k misc expenses. Carollo Engineers	
BAPPG	\$130,600	\$130,600	\$62,571	48%	-\$68,029	Includes CPSC @ \$10,000, OWOW @ \$10,000, and Pest. Reg Spt. @ \$60,000	
Biosolids Committee	\$0	\$0	\$0		\$0		
Collections System	\$1,000	\$1,000	\$0	0%	-\$1,000	Same as FY23	
InfoShare Groups	\$1,000	\$1,000	\$492	49%	-\$508		
Laboratory Committee	\$6,400	\$6,400	\$2,454	38%	-\$3,946	TNI standard training and meetings	
Permits Committee	\$1,000	\$1,000	\$80	8%	-\$920		
Pretreatment	\$1,000	\$1,000	\$0	0%	-\$1,000		
Recycled Water Committee	\$20,000	\$20,000	\$2,475	12%	-\$17,525		
Misc Committee Support	\$45,000	\$45,000	\$210	0%	-\$44,790		
Manager's Roundtable	\$1,000	\$0	\$0	0%	-\$1,000		
Total	\$303,000	\$302,000	\$112,183	37%	-\$190,817		
Collaboratives							
Collaboratives							
State of the Estuary (SFEP-biennial)	\$20,000	\$20,000	\$0	0%	-\$20,000	Biennial in Odd Fiscal Years. (Paid biennially in odd years for even year conference)	
Arleen Navarret Award	\$2,500	\$2,500	\$2,500	0%	\$0	Biennial in Even Fiscal Years. Increase in FY20. 2022 Award to be paid in FY23	
BayCAN	\$5,000	\$5,000	\$0	0%	-\$5,000		
Bay Area One Water Network	\$5,000	\$5,000	\$0	0%		New for FY23	
Bruce Wolf Scholarship	\$4,000	\$4,000	\$0	0%		FY22, FY23, FY24, FY25 FY26	
Misc	\$1,500	\$1,500	\$0	0%	-\$1,500	NBWA	
Total	\$38,000	\$38,000	\$2,500	7%	-\$35,500		
Other							
Unbudgeted Items							
Other	\$0	\$0	\$0	0%	\$0		
	\$0		\$0	0%	\$0		
Tech Support							
Technical Support							
Nutrients							
Watershed	\$1,800,000	\$1,800,000	\$1,000,000	56%	-\$800,000	Advance funding for 2nd Watershed Permit Sciece Studies; Final \$ TBD	
NMS Voluntary Contributions	\$0	\$0	\$0	0%	\$0		
Additional work under permit	\$100,000	\$100,000	\$83,040	83%	-\$16,960	Includes HDR PO for \$225k spread out over FY20-24.	
Regional Study on Nature based systems	\$248,811	\$168,811	\$16,721	7%	-\$232,090	SFEI \$500K, expires 06/30/2023	
Regional Recycling Evaluation	\$63,525	\$63,525	\$6,500	10%	-\$57,025	HDR \$154K, expires 12/31/2023	
Nutrient Workshop(s)	\$0	\$0	\$0	0%	\$0	Pilot Studies/Plant Review/InDecative Technologies	
NMS Reviewer	\$50,000	\$50,000	\$7,680	15%	-\$42,320	M. Connor Contract	
General Tech Support	\$100,000	\$100,000	\$0	0%	-\$100,000	AB617 emissions factors, PFAS, other nutrient support	
CEC Investigations	\$140,000	\$80,000	\$24,341	17%	-\$115,660	PFAS Study Phase II, schedule running later than anticipated	
Risk Reduction	\$12,500	\$12,500	\$0	0%	-\$12,500	APA FSS completed \$12,500 contract in FY20, CIEA will complete \$12,500 contract in FY23	
Total	\$2,514,836	\$2,374,836	\$1,138,282	45%	-\$1,376,554		
TOTAL EXPENSES	\$3,431,228	\$3,286,432	\$1,520,237	44.31%	-\$1,910,992		
PROJECTED EXPENSE DEVIATION FROM BUDGET		-\$144,797					
NET INCOME BEFORE TRANSFERS	-\$578,733						
TRANSFERS FROM RESERVES	\$578,733					aligns with strategy of drawing down reserves to lessen impact of Nutrient Surcharge	
NET INCOME AFTER TRANSFERS	\$0						
TOTAL OPERATING BUDGET	\$916,392						

FY 2023
BACWA BUDGET to ACTUAL

<u>EXPENSES</u>							
	OPERATING RESERVE	\$229,098					

BACWA Fund Report as of January 31, 2023

BACWA FUND BALANCES - DATA PROVIDED BY ACCOUNTING DEPT.							
DEPTID	DESCRIPTION	FISCAL YEAR BEGINNING FUND BALANCE	TOTAL BILLED REVENUE TO-DATE	TOTAL DISBURSEMENTS TO-DATE	MONTH-ENDING FUND BALANCE	OUTSTANDING ENCUMBRANCES	MONTH-END UNOBLIGATED FUND BALANCE
600	BACWA	376,500	731,121	364,132	743,489	362,462	381,027
604	LEGAL RSRV	300,000	-	-	300,000	-	300,000
605	CBC	2,114,741	2,095,140	1,138,282	3,071,599	545,908	2,525,691
	SUBTOTAL 1	2,791,241	2,826,261	1,502,414	4,115,088	908,370	3,206,718
602	BABC	176,260	176,600	87,758	265,102	57,532	207,570
606	BACC	29,810	-	52,802	(22,992)	18,180	(41,172)
607	BACC LEGAL RSRV	30,000	30,000	-	60,000	-	60,000
610	WOT	270,974	-	-	270,974	-	270,974
	SUBTOTAL 2	507,044	206,600	140,560	573,084	75,712	497,372
	GRAND TOTAL	3,298,285	3,032,861	1,642,974	4,688,172	984,082	3,704,090

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 BILLED REVENUE TO-DATE	TOTAL DISBURSEMENTS TO-DATE	MONTH-ENDING FUND BALANCE	RECONCILIATION TO FINANCIAL STATEMENTS A/R	RECONCILIATION TO FINANCIAL STATEMENTS A/P	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	376,500	731,121	364,132	743,489	(48,375)	73,570	768,684	768,684	-	0%	-		priority # 3 for allocation
804	LEGAL RSRV	300,000	-	-	300,000	-	-	300,000	-	300,000	13%	-		priority # 1 for allocation
805	CBC	2,114,741	2,095,140	1,138,282	3,071,599	-	-	3,071,599	1,084,965	1,986,634	87%	-		priority # 2 for allocation
	SUBTOTAL 1	2,791,241	2,826,261	1,502,414	4,115,088	(48,375)	73,570	4,140,283	1,853,649	2,286,634	100%	-		
802	BABC	176,260	176,600	87,758	265,102	-	-	265,102	265,102	-	0%	-		pass-through funds, no allocation
806	BACC	29,810	-	52,802	(22,992)	-	-	(22,992)	(22,992)	-	0%	-		
807	BACC LEGAL RSRV	30,000	30,000	-	60,000	-	-	60,000	60,000	-	0%	-		
810	WOT	270,974	-	-	270,974	-	-	270,974	270,974	-	0%	-		pass-through funds, no allocation
	SUBTOTAL 2	507,044	206,600	140,560	573,084	-	-	573,084	573,084	-	0%	-		
	GRAND TOTAL	3,298,285	3,032,861	1,642,974	4,688,172	(48,375)	73,570	4,713,367	2,426,733	2,286,634	-	-		

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

Reconciliation to Trial Balance

Per Report above:		STB	14930	2,286,634	
General	2,826,261	STB	15050	2,426,733	
WOT, BABC, & BACC	206,600			4,713,367	-
PROP	-	STB	16300	48,375	
subtotal	3,032,861	STB	21350	(73,570)	
				4,688,172	-

Trial Balance Revenue Accounts

40100	Interest	(24,034)
40101	Mem Contrib	(1,378,100)
40102	Transfer	(30,000)
40103	Assoc Contrib	(186,845)
40104	Other	(1,413,882)
47310	State Grant	-
47320	Grant Retention	-
subtotal		(3,032,861)
Difference		-

BACWA Revenue Report as of January 31, 2023

Cost Center Code	Cost Center Description	Program Segment Description	Program Segment Value	Amended Budget	Current Period	FY23 - Year to Date	Unobligated
600	Bay Area Clean Water Agencies	BABC - AED and RPM Support	6200	(6,000.00)	-	-	6,000.00
		BACC - AED Support	6199	(36,000.00)	-	-	36,000.00
		BDO Affil/CS/Assoc Dues	6104	-	-	(38,846.00)	(38,846.00)
		BDO Affiliate/Associate Dues	6103	-	-	(43,575.00)	(43,575.00)
		BDO Assoc.&Affiliate Contr	6102	(187,793.00)	-	(104,424.00)	83,369.00
		BDO Fund Transfers	6141	(5,202.00)	-	-	5,202.00
		BDO Member Contributions	6101	(527,250.00)	-	(527,250.00)	-
		BDO Non-Member Contr AIR	6136	(7,217.00)	-	(7,217.00)	-
		BDO Non-Member Contr BAPPG	6135	(4,033.00)	-	(4,032.00)	1.00
		BDO Other Receipts	6105	-	-	-	-
		BDO Other Receipts (Misc)	6140	-	-	(2,653.00)	(2,653.00)
		BDO- Interest Income from LAIF	6142	(4,000.00)	(1,544.85)	(3,124.45)	875.55
		BDO-Alternative Investment Inc	6143	-	-	-	-
600 Total				(777,495.00)	(1,544.85)	(731,121.45)	46,373.55
602	Bay Area Biosolids Coalition	BDO Fund Transfers	6141	-	-	-	-
		BDO Member Contributions	6101	-	-	(176,600.00)	(176,600.00)
602 Total				-	-	(176,600.00)	(176,600.00)
605	Clean Bay Collaborative	BDO Fund Transfers	6141	-	-	-	-
		BDO Member Contributions	6101	(675,000.00)	-	(674,250.00)	750.00
		BDO Other Receipts	6105	(1,400,000.00)	-	(1,399,980.00)	20.00
		BDO- Interest Income from LAIF	6142	-	(10,338.65)	(20,909.82)	(20,909.82)
605 Total				(2,075,000.00)	(10,338.65)	(2,095,139.82)	(20,139.82)
606	Bay Area Chemical Consortium	BDO Member Contributions	6101	-	-	-	-
606 Total				-	-	-	-
607	BACC Legal RSRV	BDO Fund Transfers	6141	-	-	(30,000.00)	(30,000.00)
607 Total				-	-	(30,000.00)	(30,000.00)
Grand Total				(2,852,495.00)	(11,883.50)	(3,032,861.27)	(180,366.27)

BACWA Expense Detail Report for January 31, 2023

Cost Center Code	Program Segment Description	Program Segment Value	Balance Type	Current Period Activity	FY23 - Year to Date
600	AIR-Air Issues&Regulation Grp	6153	Actual	3,825.00	43,901.00
			Encumbrance	(3,825.00)	51,174.00
			Obligated	-	95,075.00
	AS-Assistant Executive Directo	6175	Actual	-	42,367.72
			Encumbrance	-	43,636.28
			Obligated	-	86,004.00
	AS-Audit Services	6180	Actual	-	-
			Encumbrance	-	-
			Obligated	-	-
	AS-BACWA Admin Expense	6173	Actual	-	-
			Obligated	-	-
	AS-EBMUD Financial Services	6176	Actual	7,310.58	20,649.61
			Encumbrance	(7,310.58)	22,647.39
			Obligated	-	43,297.00
	AS-Executive Director	6174	Actual	17,020.83	102,124.98
			Encumbrance	(17,020.83)	102,125.02
			Obligated	-	204,250.00
	AS-Insurance	6177	Actual	-	7,571.20
			Obligated	-	7,571.20
	AS-Regulatory Program Manager	6179	Actual	9,198.15	67,823.44
			Encumbrance	(9,198.15)	74,399.56
			Obligated	-	142,223.00
	Administrative Support	6178	Actual	-	-
			Obligated	-	-
	BC-BAPPG	6152	Actual	5,724.30	62,571.22
			Encumbrance	(5,724.30)	53,698.36
			Obligated	-	116,269.58
	BC-InfoShare Groups	6148	Actual	-	491.73
			Obligated	-	491.73
	BC-Laboratory Committee	6149	Actual	942.50	2,453.75
			Encumbrance	(942.50)	2,746.25
			Obligated	-	5,200.00
	BC-Manager's Roundtable	6154	Actual	-	-
			Obligated	-	-
	BC-Miscellaneous Committee Sup	6150	Actual	210.00	210.00
			Encumbrance	-	-
			Obligated	210.00	210.00
	BC-Permit Committee	6145	Actual	80.00	80.00
			Obligated	80.00	80.00
	BC-Pretreatment Committee	6151	Actual	-	-
			Obligated	-	-
	BC-Water Recycling Committee	6146	Actual	2,475.00	2,475.00
			Encumbrance	(2,475.00)	7,175.00
			Obligated	-	9,650.00
	CAR-BACWA File Storage	6165	Actual	-	-
			Obligated	-	-
	CAR-BACWA IT Software	6167	Actual	-	403.64
			Obligated	-	403.64
	CAR-BACWA IT Support	6166	Actual	-	-
			Encumbrance	-	-
			Obligated	-	-
	CAR-BACWA Website Dev/Maint	6163	Actual	562.50	637.50
			Obligated	562.50	637.50
	CAR-BACWA Website Hosting	6164	Actual	-	189.49
			Obligated	-	189.49
	CAS-Arleen Navaret Award	6160	Actual	2,500.00	2,500.00

Cost Center Code	Program Segment Description	Program Segment Value	Balance Type	Current Period Activity	FY23 - Year to Date
			Obligated	2,500.00	2,500.00
	CAS-BayCAN	6204	Actual	-	-
			Obligated	-	-
	CAS-Misc Collaborative Sup	6162	Actual	-	-
			Obligated	-	-
	CAS-Stanford ERC	6159	Actual	-	-
			Obligated	-	-
	GBS-Meeting Support-Annual	6170	Actual	-	-
			Obligated	-	-
	GBS-Meeting Support-Exec Bd	6169	Actual	-	404.45
			Obligated	-	404.45
	GBS-Meeting Support-Misc	6172	Actual	885.96	3,525.11
			Obligated	885.96	3,525.11
	GBS-Meeting Support-Pardee	6171	Actual	-	3,432.19
			Obligated	-	3,432.19
	LS-Executive Board Support	6156	Actual	-	-
			Encumbrance	-	2,309.00
			Obligated	-	2,309.00
	LS-Regulatory Support	6155	Actual	320.00	320.00
			Encumbrance	(320.00)	2,551.00
			Obligated	-	2,871.00
	WQA-CE-Nature Based Solutions	6196	Actual	-	-
			Obligated	-	-
	Write-Off Doubtful Accounts	6208	Actual	-	-
			Obligated	-	-
600 Total			Actual	51,054.82	364,132.03
600 Total			Encumbrance	(46,816.36)	362,461.86
600 Total			Obligated	4,238.46	726,593.89
602	AS-Assistant Executive Directo	6175	Actual	-	-
			Obligated	-	-
	AS-Regulatory Program Manager	6179	Actual	-	-
			Obligated	-	-
	Academia Research & Development	6203	Actual	-	25,000.00
			Obligated	-	25,000.00
	Administrative Support	6178	Actual	-	289.88
			Obligated	-	289.88
	BDO Contract Expenses	6186	Actual	-	-
			Obligated	-	-
	Collateral Development	6197	Actual	-	-
			Obligated	-	-
	Program Manager Expense	6202	Actual	6,391.00	62,468.54
			Encumbrance	(6,391.00)	57,531.46
			Obligated	-	120,000.00
	Technology Research & Development	6206	Actual	-	-
			Obligated	-	-
602 Total			Actual	6,391.00	87,758.42
602 Total			Encumbrance	(6,391.00)	57,531.46
602 Total			Obligated	-	145,289.88
605	Recycled Water Evaluation	6198	Actual	6,500.00	6,500.00
			Encumbrance	(6,500.00)	17,492.35
			Obligated	-	23,992.35
	WQA - CEC Investigations	6201	Actual	14,888.20	24,340.50
			Encumbrance	(14,888.20)	236,285.50
			Obligated	-	260,626.00
	WQA-CE Addl Work Under Permit	6191	Actual	35,000.00	83,040.00
			Encumbrance	(35,000.00)	8,398.00
			Obligated	-	91,438.00
	WQA-CE Risk Reduction	6190	Actual	-	-
			Encumbrance	-	-

Cost Center Code	Program Segment Description	Program Segment Value	Balance Type	Current Period Activity	FY23 - Year to Date
			Obligated	-	-
	WQA-CE Voluntary Nutr Contrib	6193	Actual	-	-
			Obligated	-	-
	WQA-CE-Nature Based Solutions	6196	Actual	-	16,721.17
			Encumbrance	-	241,412.33
			Obligated	-	258,133.50
	WQA-CE-Nutrient WS Permit Comm	6188	Actual	-	1,000,000.00
			Obligated	-	1,000,000.00
	WQA-CE-Technical Support	6181	Actual	-	-
			Obligated	-	-
	WQA-NMSReviewer	6205	Actual	3,680.00	7,680.00
			Encumbrance	(3,680.00)	42,320.00
			Obligated	-	50,000.00
605 Total			Actual	60,068.20	1,138,281.67
605 Total			Encumbrance	(60,068.20)	545,908.18
605 Total			Obligated	-	1,684,189.85
606	Administrative Support	6178	Actual	685.82	22,802.34
			Encumbrance	-	18,180.00
			Obligated	685.82	40,982.34
	BDO Fund Transfers	6141	Actual	-	30,000.00
			Obligated	-	30,000.00
	GBS-Meeting Support-Misc	6172	Actual	(37.50)	-
			Obligated	(37.50)	-
606 Total			Actual	685.82	52,802.34
606 Total			Encumbrance	-	18,180.00
606 Total			Obligated	648.32	70,982.34
610	Administrative Support	6178	Actual	-	-
			Obligated	-	-
	BDO Contract Expenses	6186	Actual	-	-
			Obligated	-	-
610 Total			Actual	-	-
610 Total			Encumbrance	-	-
610 Total			Obligated	-	-
Grand Total Actual				118,199.84	1,642,974.46
Grand Total Encumbrance				(113,275.56)	984,081.50
Grand Total Obligated				4,886.78	2,627,055.96

Lorien Fono

From: Courtney Mizutani <cmizutani@sbcglobal.net>
Sent: Friday, March 10, 2023 3:13 PM
To: Lorien Fono; Jason Nettleton; Nohemy Revilla
Cc: Sarah A. Deslauriers; Mary Cousins
Subject: BAAQMD Stationary Source Committee Update (3/8/23 meeting)

Greetings all,

The BAAQMD Stationary Source and Climate Impacts Committee met on Wednesday 3/8. February 15 was the last remote Board meeting; the BAAQMD Board and its committees are meeting in person now. For now, the public can log in to comment but it is unclear how long that will continue.

Topics were wide ranging and included the following:

- **Revised Particulate Limits:** BAAQMD staff will write a comment letter to EPA regarding the proposed PM 2.5 National Ambient Air Quality Standards (NAAQS) revision. The current PM2.5 annual limit is 12 µg/m³. EPA has proposed a limit between 9-10 µg/m³ and is soliciting comments regarding the range 8-11 µg/m³. CARB is recommending that EPA select a more protective limit than EPA is proposing. CARB states that science demonstrates health impacts down to 8.0 µg/m³ (annual) and as low as 25 µg/m³ (24 hour). CAPCOA supports a standard set based on the "most protective level consistent with science". After much discussion around compliance status changing not because of "bad behavior" but because of tightening standards, "exceptional events" like wildfires, and prescribed burns, most of the Board indicated they preferred CARB's position. It sounded like staff concluded the BAAQMD letter will include language supporting for both positions.
- **Workplan for 2023:** Deputy APCO Greg Nudd presented the proposed Workplan for 2023 which included BAAQMD's Statutory Authorities, Fugitive Dust, State Implementation Plan update, new/updated rules (refinery wastewater, refinery heavy liquid leaks, metal recycling and shredding operations), Wood Smoke, and AB617's Richmond-North Richmond- San Pablo Community Health Protection Program.
- Board member Goia asked about **Rule 11-18**, Reduction of Risk from Air Toxics at Existing Facilities. Greg Nudd indicated that there has been some amount of litigation around Rule 11-18, and that an update could be "slotted in" in the fall. It seemed to me that the litigation was from the communities who felt that Rule 11-18 was not being implemented quickly enough. It was not clear to me what "slotted in" meant -- it could be an update, or it could mean a proposed revision to the rule. The schedule has slipped several times, past dates initially established in the rule. The timing for POTWs now looks like it will more favorably align with the statewide 2-Step Process that CASA is developing to respond to AB617/AB2588 requirements.
- Board member Haubert asked about **permit application review times**. He expressed concern about the length of time that permit applications are taking to process. And he asked about what can be done to speed up the processing. Sharon Landers noted that the Board had authorized additional funding for positions. On April 5, the Finance and Administration Committee (which as of March 1 is the combined Administration Committee and the Budget & Finance Committee) will consider where to allocate positions. She indicated that Engineering was a "high risk" area and would likely be one of the areas considered for "additional efficiencies", which I took to mean more staff. This is the time for BACWA and member agencies to comment. Board member Haubert (Alameda County) appears to be quite concerned about this issue, so I would think it appropriate for member agencies in Alameda County to contact him directly with their experiences. And, of course, BACWA should submit a comment letter to

the Committee, as well as comment live during the meeting. <https://www.baaqmd.gov/about-the-air-district/board-of-directors/committees>

Other bits of news: Sharon Landers has been retained through the end of 2023 as the BAAQMD's Interim CEO. Philip Fine has taken his position as Air Pollution Control Officer. Jack Broadbent used to serve as both the CEO and APCO.

If you have any questions, please let us know.

Thanks,

Courtney and Sarah

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BACWA-BAAQMD Implementation Workgroup Meeting Summary

Date: February 9, 2023

Time: 1-3 pm

Location: Zoom

Attendees: Greg Nudd, Carol Allen, Pamela Leong, Sanjeev Kamboj, and Elaine Ko (BAAQMD); Lorien Fono (BACWA ED); Amit Mutsuddy (EBMUD, BACWA Chair); Jason Nettleton (San Jose, BACWA AIR Committee Co-Chair); Nohemy Revilla (San Francisco PUC, BACWA AIR Committee Co-Chair); Lori Schectel (Central San); Chris Dembiczak (EBMUD); Courtney Mizutani (Mizutani Environmental); Sarah Deslauriers (Carollo)

Notes provided below are based on the discussion by agenda item.

1) Introductions

2) Overview of October 17th Meeting: Decisions, Action Items, and Next Steps

Action item	Discussion	New action items
a) Engage in strategic planning (SP) with new Executive Officer and/or go to Budget and Finance Committee to request more staff be assigned to permitting	BAAQMD hiring <10 staff agency-wide this year. Engineering trying to fill existing positions plus 4 new ones in FY 22-23. Board retreat scheduled for March. BAAQMD is bringing in a SP consultant; process expected to take a year.	BACWA to follow up on SP process in a few months. BACWA to engage with Budget and Finance Committee on staffing allocation
b) BACWA to remind AIR Committee members that they should ask for extensions on source testing from Enforcement staff and source testing staff (<i>BACWA AIR Committee Meetings</i>)	Confirmation of authority for granting extensions. Facilities having difficulty getting source test companies to come do testing. Jason suggested standard permit conditions could be modified to reflect hours of operation vs. calendar operation, which could alleviate some testing issues.	Pam to identify lead in Compliance and Enforcement Division to engage with BACWA.
c) Send standard permit conditions (SPC) markups to Sanjeev (<i>BACWA</i>)	Sanjeev recommended working directly with Brenda Cabral on SPCs and others going forward. Copy Sanjeev on emails to keep him informed.	Sanjeev to review SPCs. Brenda and Sanjeev to respond to edits and propose additional SPCs for BACWA review. Sanjeev forwarded to Brenda on 2/10/2023

d) BACWA to work with Jerry on standard formatting for source test results to improve reporting quality and efficiency (<i>BACWA/ BAAQMD</i>)	Get input on what methods could be approved. Both BAAQMD and source test specialists are under-resourced. Standardization would be helpful and save both source test specialists and facilities time and effort.	Elaine will confer with Jerry and Marco on next steps, then follow up with BACWA.
e) BAAQMD / CASA Air Toxics coordination meeting (<i>BACWA</i>)	First meeting with BAAQMD 12/7/22. Discussed alignment between CARB two-step process and BAAQMD Rule 11-18 implementation. Additional meetings to take place between CASA and CARB in the near future.	Lorien to send out a doodle for the next air toxics meeting to review compound list and facilities list. Mid-March looks likely. Sanjeev and Brenda would like to provide input on Bay Area facility selection for source testing. Continue to coordinate with CASA.
f) Review PM 2.5 Local Risk Method document (<i>BACWA AIR Committee</i>)	Discussed next steps.	BACWA will monitor Stationary Source, Advisory Council and Community Advisory Council meeting agendas, because different aspects of this will be heard at each over the course of the year.
New items: 1. BACWA Annual meeting May 5, 2023 2. BACWA to begin draft of report to Board		Lorien to send invite to Greg Nudd and the new Executive Officer, Philip Fine. Greg to identify meeting for status report to Board. BACWA to prepare draft for review at next meeting (April 24?).

3) Outlook for 2023

- a) BACWA would like to meet and participate in strategic planning with the new Executive Officer (EO). Greg Nudd noted that the report out to the Board (item 5 below) would be a good opportunity to work with EO Philip Fine. This would also be an opportunity to engage with him and get him up to speed on the work group and wastewater sector specific considerations/concerns.

b) Greg noted that he expects regulatory work for the upcoming year to focus on dust, likely in the areas of construction and concrete batch plants. To revisit Regulation 13 in the future as well.

4) **Other Opportunities for Collaboration between BACWA and BAAQMD**

There was discussion around Strategic Planning. BAAQMD consultant to work on this. There could be opportunities for collaboration as the process evolves.

5) **Report-out to BAAQMD Board on Workgroup Items**

Board action approving Regulation 2 amendments December 15, 2021 requires a report back to the Board regarding Implementation Workgroup activities. BACWA proposed drafting the report and supporting BAAQMD staff in its preparation. This would also provide an opportunity for BACWA to connect with new EO prior to report to the Board.

6) **Action Item Summary**

See summary table under item 2.

7) **Schedule Next Quarterly Meeting:** Monday, April 24th, 1-3 pm.

8) **Adjourn**

Prepwork for Transforming Shorelines Racial Equity Workshop

1. Understanding Individual, Institutional, and Structural Racism

Review page 1-2 of [Understanding the Dismantling of Structural Racism](#)

2. Developing an Internal and External Equity Lens

Review pages 6-10 of [Collaborative Governance](#). As you review the document, ask yourself the following. This is a reflection exercise. As you read the questions, consider how they fit with your current work and approach, but do not feel the need to answer each question.

- How can I apply this to the way my organization engages with the community?
- How can I apply this to active projects and future projects?

3. Becoming an Inclusive Organization

Review the one page [Continuum on Becoming an Anti Racist Multicultural Organization](#). As you review the continuum begin to ask yourself the following questions:

- Where do you fall on the continuum as an individual?
- Where does your organization fall on the continuum?
- Where would you like to be one year from now and why?

4. Benefits of Implementing an Equity Lens

Review case studies found on pages 28-33 in [Governing for Equity](#). As you review the case studies ask yourself the following:

- After seeing the success of other government agencies in developing an equity lens, what changes would you like to make within your organization?

5. Wastewater/Regional Related Examples

- Review for local opportunities and trends related to regulations, planning, policy and best practices. Consider which strategies might align with your own organization's journey.
- Compliance: State Water Board Racial Equity Action Plan¹ - Briefly review actions for questions during the panel.
- Planning: BCDC - [Adapting to Rising Tides Equity Paper](#) - Review pages 6, 12-13 (definitions); pages 23-24 and 29-32, (equity concerns and metrics)
- Case Studies: [Opportunities for Municipal Clean Water Utilities to Advance Environmental Justice & Community Service](#) - case studies, SFPUC (pages 30-33)
- Strategic Planning: [EB MUD DEI Plan](#): pages 16-21

Note: These are optional readings, but highly encouraged to prepare participants for the March 7th workshop. The material will be covered in more detail at the workshop with additional opportunities for discussion.

¹ https://www.waterboards.ca.gov/racial_equity/

Planning Subcommittee (PSC) Meeting No. 75
February 22, 2023
9:30 am – 12 pm
Teleconference
Chair: Tom Mumley
Meeting Notes

Attendees: Eric Dunlavey, Dave Senn, Ian Wren, Richard Looker, Lorien Fono, Amit Mutsuddy, Tom Mumley, Ariella Chelsky.

1. Previous Action items from the planning subcommittee:

- Water Board to synthesize Lake Merritt Monitoring data - ongoing
- BACWA to deliver short term scenarios to the NMS for testing by the end of March – on track
- Restart steering committee action item table – Ian will complete by steering committee
- Agendize planning for HAB response plan in terms of enhanced monitoring, communications protocol, and mitigation – on today's agenda
- Plan Water Board item on the HAB and management actions – targeting late spring

2. Science Program Update

There is the opportunity to submit a proposal to the Lawrence-Berkeley Labs/ Joint Genome Institute to study the role of viruses in controlling HABs.

The MAG meeting took place on Feb 15/16.

Dave proposed an approach for program management in the short term. Ari will work on the field sampling work. Ian will focus on synthesis activities, including updating the website. Ian's efforts will cost approximately \$30K.

There was a HAB alert on February 7 and 8 that turned out to be a false alarm. Remote sensing showed this was not in fact a HAB event. The team will explore what can be done in terms of automating this effort. This effort isn't yet funded. There is a pending \$250K SEP that will be settled within the next few months that could be used to fund unanticipated expenses. There was a discussion about who's responsible for responding to reports of HABs or fish kills.

3. Priority Updates

HAB Response

Dave asked questions about the lines of responsibility for responding to a report of a HAB or fish kill. If SFEI is on point, they would need to make sure all staff are present to do immediate response. They can design a response plan with USGS assuming no other agencies are involved. Dave asked for feedback about who the lead is based on their regulatory role. Tom differentiated between authority/policy response and having capacity to do direct sampling. Kevin will be tasked with developing a plan for coordination. The legislature is also interested in the State Water Board's HAB response and asked what resources the Water Board needs. Eric brought up incident response planning as an analog for this effort, and recommended we aim for a guidance document. Agencies have contingency plans that are NPDES requirements. Eric will provide San Jose's plan as an example. There is a fresh and estuarine ocean HAB effort existing within the State framework into which we will need to integrate our efforts. Some of these efforts could get support if the MERHAB proposal gets funded.

Next steps are to have an initial Water Board/SFEI meeting to develop a framework for this effort. Then, we will schedule a meeting with interested/relevant regulatory entities, with the goal to come out with potential roles and responsibilities. We could schedule this item for a subsequent Steering Committee meeting once we have a tentative plan. Wastewater agencies don't need to be involved in this initial step, but will ultimately be part of the communication response.

MAG meeting feedback

The MAG made suggestions for validation improvement. They suggested that the team pursue the model applications, and assess uncertainty. Overall, they were impressed with the status of model progress. The model does a good job of representing the physics of the system, as well as the seasonal and spatial patterns of nutrient concentrations, chlorophyll-a, and dissolved oxygen. Dave noted that nitrogen removal is probably underestimated in the lower South Bay. The MAG recommended looking at percent saturation rather than concentration for DO. They were instructed to validate sediment fluxes in sediment C/N pools, source of overprediction in Chl-a events, and the rate and magnitude of oxygen depletion in HAB application. They suggested a sensitivity analysis to tell us what factors need more investments. The MAG also recommended focusing on communication to managers, as well as the impact of climate change. There was a discussion about the importance of ocean impacts, and the role of the managers in specifying outcomes that are of management interest.

Dave would like to improve the modeling of the HAB event, especially the sequence of events. This will increase confidence in the mechanisms at work. They would also like to produce a validation manuscript, with a focus on the nitrogen budget. Dave suggested convening a small group to help inform management applications.

4. Discussion/Planning Topics

The next Steering Committee meeting is March 10. One goal will be technical updates, and the second will be FY24 priorities. The meeting will include POTW management strategies.

Dave shared a list of reports that are complete or almost complete that can be shared at the meeting:

- Modeling report and MAG
- HAB event update
- HAB synthesis
- shoal synthesis (v1...2021)
- chl-a in LSB
- trends (chl, GPP, DO)
- DO in LSB sloughs/creeks

Dave will send out a list of discussion topics, and we'll finalize the agenda and meeting type (hybrid vs. virtual) by email.

5. Action items :

- Water Board to synthesize Lake Merritt Monitoring data (approx. 1 months)
- BACWA to deliver short term scenarios to the NMS for testing by the end of March
- Restart steering committee action item table
- Plan Water Board item on the HAB and management actions
- SFEI will gather emergency response/contingency plans as an example to plan HABs
- Richard to schedule meetings and develop framework for emergency response plan
- Dave will send out a list of discussion topics, and we'll finalize the agenda and meeting type (hybrid vs. virtual) by email.



San Francisco Bay Nutrient Management Strategy (NMS) Steering Committee Meeting Draft Minutes

Date/Time: December 9, 2022, 9:00 AM to 1:00 PM

Location: WEBCONFERENCE

Chair: Thomas Mumley

Steering Committee Attendees

Organization	First	Last	Role	Present	Comments
BASMAA	Adam	Olivieri	Member		
	Tom	Hall	Alternate	x	
	Matt	Fabry	Alternate		
	Geoff	Brosseau	Alternate		
BACWA	Amit	Mutsuddy	Member	x	
	Jackie	Zipkin	Alternate	x	
	Lori	Schectel	Alternate		
	Eric	Dunlavey	Member	x	
Cal DFW	Becky	Ota	Member		
U.S. Geological Survey	Mike	Chotkowski	Member		
NOAA Fisheries	Joe	Dillon	Member	x	
	Brian	Meux	Alternate	x	
Regional San	Lisa	Thompson	Member	x	
San Francisco Baykeeper	Ian	Wren	Member	x	
South Bay Salt Pond Restoration Project	David	Halsing	Member	x	
Interagency Ecological Program	Steve	Culberson	Member		
SFCWA	Lynda	Smith	Member		
	Frances	Brewster	Alternate		
U.S. EPA	Terry	Fleming	Member		
	Luisa	Valiela	Alternate	x	
U.S. FWS	Leanna	Zweig	Member		
WSPA	Kevin	Buchan	Member	x	
Ocean Protection Council	Kaitlyn	Kalua	Member	x	
Central Valley Water Board	Adam	Laputz	Member		
	Janis	Cooke	Alternate	x	

	Christine	Joab	Alternate		
SF Bay Water Board	Tom	Mumley	Member	x	
	Richard	Looker	Alternate	x	

Additional Attendees

David Senn, SFEI, Science Manager, Program Coordinator Team

Robert Schlipf, Water Board

Don Grey, EBMUD

Lilia Mourier, SFEI

Farid Karimpour, SFEI

Dan Killam, SFEI

Allie King, SFEI

Ariella Chelsky, SFEI

Dana Michaels, EPA

Martin Volaric, SFEI

Mike Connor

Pradeep Mugunthan

Mary Lou Esparza, CCCSD

Mike Falk, HDR

Keven Lunde, Water Board

Rob Whitson, Freshwater Trust

Ann Balis, City of San Jose

Jaylin Babitch, City of San Jose

Emily Corwin, FSSD

Bryan Frueh, City of San Jose

Lorien Fono, BACWA

Mary Cousins, BACWA

1. Welcome, Introductions and Agenda Review

The Chair proposed skipping introductions. It was noted that today's meeting will omit some of the usual administrative items, and we will have a motion to approve the December and today's meeting minutes at our May Steering Committee meeting.

2. Meeting Overview and Upcoming Priorities

Dave gave an overview of the technical updates that will be discussed at today's meeting. He also shared a list of deliverables, some which are ready and some which will be ready within the next week. We will be qualitatively discussing program priorities, and give an overview of recent successful as well as pending funding proposals. Dave queued up the program needs and monetary shortfalls, which will frame the discussions from the rest of the meeting. Many of the proposed projects for FY24 are new priorities in response to the summer 2022 algal bloom. He outlined how the WQIF funds will supplement NMS funds for the modeling program. Also, if successful, a proposal to NPAA MERHAB would fund work on HAB monitoring.

3. Technical Update: Multi-benefit Nutrient Management & POTW Group Annual Report

Lorien Fono gave an overview of the Nutrient Watershed Permit which requires regional monitoring and reporting, support for the science, and regional studies on nutrient reduction opportunities. Mike Falk (HDR) gave an overview of the group annual report, and the first regional study, on

optimization, upgrade and sidestream opportunities, that was submitted in 2018. He gave a preview of the recycled water study which shows that nitrogen reduction by recycled water will likely double by 2040. He also identified many of the hurdles to implementing recycled water, that are related to the certainty of having customers, interagency challenges, and cost.

Ian gave an overview of the Nature Based Solutions study. The key drivers for implementing NBS projects are shoreline adaptation and effluent polishing. The barriers are cost, land availability, competing issues and regulatory hurdles. The study identifies higher priority facilities for NBS along with preliminary plans. One of the goals of the study will be to provide cost estimates for a few high-priority sites.

The discussion covered the costs of projects that are moving forward compared to the cost estimates in the optimization upgrade study. Tom noted that horizontal levees could be used for a lower volume stream like RO concentrate. There were comments about land limitations near POTWs and the possibility of implementing NBS elsewhere in the watershed.

4. Technical Update: Lower South Bay Dissolved Oxygen

Ariella gave an overview of the LSB DO project, which is intended to probe the DO conditions in the lower south bay and compare them to potential thresholds. NMS has deployed a network of sensors in the LSB, the oldest of which will be 10 years old this summer. There are sensors in the sloughs and at the Dumbarton Bridge. In general, DO is lower in the sloughs than in the LSB. Alviso and Guadalupe are the sloughs with the most frequent excursions below 5 mg/L.

Ari gave an overview of the LSB assessment framework and its three approaches, including the Virginia Province Approach which uses index surrogate species with known tolerances to DO, the metabolic index that will incorporate impacts as temperatures increase, as well as fish data interpretation using GAMS. There is 10 years of data in the LSB including fish abundance and water quality parameters.

Ariella shared draft acute and chronic thresholds from the VPA, which hinge on whether salmonids and sturgeon are present or absent. Based on these numbers, an analysis can be done on how frequently conditions are below the thresholds. The lower the thresholds and the longer the averaging period the more likely the conditions are expected to be below the threshold for most sites. Using shinyapp, users can probe the conditions over time of each site.

There were questions about whether there were fish kills in the LSB during the August 2022 Bloom. No fish kills were observed by the fish survey team at that time. *Heterosigma Akashiwo* was detected, but at lower concentrations than elsewhere in the Bay. There was a discussion about setting up monitoring stations further North in the Bay.

5. Technical Update: Lower South Bay phyto biomass (chl-a)

Dave stated we need to move towards understanding what causes low DO conditions and what management actions could be employed to address them. Salt pond management is one of the levers that can be examined. Dave showed chl-a levels that have been elevated at the Dumbarton Bridge in the spring on an annual basis for the last few years (since 2019). It's possible that biomass

is coming out of the sloughs and either directly providing biomass to LSB or providing a seeds/starter algal population. They did monitoring during two different salt pond management conditions and were able to notice a significant difference. They made some conservative assumptions to test whether production in the salt ponds could influence open Bay carbon and DO budgets. Dave asked for feedback from the group about pursuing these lines of inquiry. All three LSB POTWs have or plan to reduce nutrients. Dave Halsing commented that there is a diversity in salt pond hydraulics. They would be willing to open up salt ponds on a shorter time schedule if it was thought that would have a positive impact on water quality in the open Bay.

6. Technical Update: Water Quality ‘mapping’: Central/South Bays

Dan Killam shared images from mapping cruises on the South Bay shoals. There’s a persistent high chlorophyll region in the Oakland area. We also have observations of turbidity, which often co-occurs with chlorophyll especially in the spring and fall. He discussed that pH may be a parameter of interest in helping us understand production by being more persistent over time, compared to oxygen which is more transient. He wrapped up by showing the history of the cruises. Six more cruises are planned for this year. Data is being used for model validation and quantifications of mechanisms.

7. Technical Update HAB Synthesis Report

Dave gave an overview of the HAB synthesis report, which was largely drafted prior to the summer 2022 HAB event. This effort was initiated following the observation of Alexandrium in 2014. The report covers the quantification of algal toxins using molecular techniques, sampling of toxins in mussels, phycotoxin in anchovies, microcystin measurement in clams from Suisun Bay, coastal mussel toxin levels, and spatially integrated dissolved toxin measurements. The project goals for the current technical report is to develop a set of high-priority harmful algal taxa, synthesize available data to characterize HA status, then identify high-priority science questions. There are 14 different harmful algal species of concern. Alexandrium and Pseudo-nitzschia were the species of most concern prior to the summer 2022 bloom. Gyrodinium may be a Heterosigma predator. Dave speculated about the role of ballast water in seeding the Bay with some of the species of concern. Luisa noted that ballast water discharge standards are currently being litigated by EPA. (A [link](#) to a paper on ballast discharges in SF Bay was shared in the meeting chat). It was noted that for most species the highest concentration were observed in Central Bay.

8. Technical Update: Modeling: MAG report-out, where to next

The MAG made suggestions for model validation improvement. They suggested that the team pursue the model applications, and assess uncertainty. Overall, they were impressed with the status of model progress. The model does a good job of representing the physics of the system, as well as the seasonal and spatial patterns of nutrient concentrations, chlorophyll-a, and dissolved oxygen. The MAG recommended differentiating between surface and bottom DO, and looking at percent saturation rather than concentration for DO. They were instructed to validate sediment fluxes in sediment C/N pools, source of overprediction in Chl-a events, and the rate and magnitude of oxygen depletion in HAB application. They suggested a sensitivity analysis to tell us what factors need more investments. The MAG also recommended focusing on communication to managers, as well as the impact of climate change.

The next steps are for BACWA and the Water Board to meet with SFEI to direct modeling scenarios. The team will also continue to work on model improvement and enhancing the understanding of mechanistic drivers of the 2022 HAB event. They are aiming to produce three publications on hydrodynamic validation/drivers, BGC validation and nutrient cycling, and primary production drivers. They are also planning to extend the modeling to encompass water years 2019-2022 to both validate the model and extend it to answer NMS science questions. They will be continuing to improve light extinction estimation, ocean contribution, and biogeochemical process improvements.

The next MAG meeting will be scheduled for winter/spring next year.

9. Discussion/Synthesis of FY2024 Science Priorities

There was a discussion about how resources are allocated in different regions in the Bay. If the MERHAB proposal is funded, that will lead to a fairly extensive monitoring network throughout the region.

Dave shared a list of priority projects for FY24, and showed which areas may be supported from external funding sources. Tom pointed out that with the reissuance of the watershed permit, we need to wrap up some efforts. Also because of HAB response, we don't have a whole lot of discretion for FY24.

The science team will send out a reminder to the Steering Committee requesting feedback on FY24 priorities prior to the May Steering Committee meeting.

10. Action items and wrap-up

- The science team will send out a reminder to the Steering Committee requesting feedback on FY24 priorities prior to the May Steering Committee meeting.

Next meeting on May 12 will focus on the program plan.

Adjourned at 2:49pm

PFAS Phase 2 schedule

Deliverable	Target Completion Date
Sample collection complete and shipped to laboratory	May 2022 -> delayed to Oct. 2022
Laboratory analysis complete and report final dataset	August 2022 -> delayed to March 2023
Data QA/QC completed	April - May 2023
Preliminary data presentations	April - June 2023
Upload data and monitoring report to Geotracker	July 2023
Data analysis and interpretation	April - July 2023
Discussion of results	June - Sept. 2023
Draft Report	Sept. - Dec. 2023
Final Report	Dec. 2023 - March 2024

Two-Step Process (Air Toxics Pooled Emissions Estimation Program II)

Cost Breakdown Estimate by Permitted Average Dry Weather Flow (MGD) and by Step in the Process

Number of CTR Facilities	139	Step 1: Scan	Step 2: Quantification		Final Report
Approximate Total Permitted ADWF (MGD)	4400	FY 23-24	FY 24-25	FY 25-26	FY 26-27
Estimated Total Budget (USD)	\$10,000,000	\$2,000,000	\$5,000,000	\$2,000,000	\$1,000,000
Estimated Cost per permitted ADWF (\$/MGD)	\$2,300	\$500	\$1,100	\$500	\$200
Example cost for a 10 MGD Facility	10	\$5,000	\$11,000	\$5,000	\$2,000
Example cost for a 65 MGD Facility	65	\$32,500	\$71,500	\$32,500	\$13,000

Participants in BACWA Pass-Through					
San Jose/Santa Clara WPCP	167	\$83,500	\$183,700	\$83,500	\$33,400
EBMUD WPCP	120	\$60,000	\$132,000	\$60,000	\$24,000
SF-SE Water Pollution Control Plant	85.4	\$42,700	\$93,940	\$42,700	\$17,080
SF - OCEANSIDE Water Pollution Control Plant	43	\$21,500	\$47,300	\$21,500	\$8,600
Central Contra Costa SD WWTP	53.8	\$26,900	\$59,180	\$26,900	\$10,760
Oro Loma/Castro Valley SD WPCP	20	\$10,000	\$22,000	\$10,000	\$4,000
Hayward WPCF	18.5	\$9,250	\$20,350	\$9,250	\$3,700
Raymond A. Boege Alvarado WWTP (Union SD)	33	\$16,500	\$36,300	\$16,500	\$6,600
San Leandro WPCP	7.6	\$3,800	\$8,360	\$3,800	\$1,520
Palo Alto Regional WQCP	39	\$19,500	\$42,900	\$19,500	\$7,800
Sunnyvale WPCP	29.5	\$14,750	\$32,450	\$14,750	\$5,900
SVCW WWTP	29	\$14,500	\$31,900	\$14,500	\$5,800
Fairfield-Suisun	23.7	\$11,850	\$26,070	\$11,850	\$4,740
Santa Rosa Laguna Treatment Plant	21.34	\$10,670	\$23,474	\$10,670	\$4,268
Delta Diablo Wastewater Treatment Plant	19.5	\$9,750	\$21,450	\$9,750	\$3,900
Dublin San Ramon SD WWTP	17	\$8,500	\$18,700	\$8,500	\$3,400
Richmond WPCP	16	\$8,000	\$17,600	\$8,000	\$3,200
San Mateo WWTP	15.7	\$7,850	\$17,270	\$7,850	\$3,140
Vallejo Flood and Wastewater District WWTP	15.5	\$7,750	\$17,050	\$7,750	\$3,100
NAPA SD WWTP (Soscol Water Recycling Facility)	15.4	\$7,700	\$16,940	\$7,700	\$3,080
South San Francisco-San Bruno WQCP	13	\$6,500	\$14,300	\$6,500	\$2,600
West County WW District WPCP	12.5	\$6,250	\$13,750	\$6,250	\$2,500
Central Marin San. Agcy. WWTP	10	\$5,000	\$11,000	\$5,000	\$2,000
City of Livermore Water Reclamation Plant	8.5	\$4,250	\$9,350	\$4,250	\$1,700

Petaluma	6.7	\$3,350	\$7,370	\$3,350	\$1,340
Burlingame	5.5	\$2,750	\$6,050	\$2,750	\$1,100
BACWA Total	846.14	\$423,070	\$930,754	\$423,070	\$169,228

Bay Area POTWs Currently listed in Spreadsheet but Not Assumed to be Part of BACWA Pass-Through	
North San Mateo County Sanitation District WWTP (Covered Primary Treatment, < 10 MGD)	8
Novato WWTP (Covered Primary Treatment, < 10 MGD)	7
Brentwood WWTP (Not a BACWA Member)	6.4
South County Regional Wastewater Authority WWTP (Not a BACWA Member)	8.5



March 6, 2023

Kerry O'Connor
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

VIA EMAIL: Kerry.OConnor@waterboards.ca.gov

Subject: Comments on Tentative Order NPDES Permit No. CA0038628 for Central Marin Sanitation Agency, San Rafael Sanitation District, Ross Valley Sanitary District, and Sanitary District No. 2 of Marin County

Dear Kerry O'Connor:

The Bay Area Clean Water Agencies (BACWA) and California Association of Sanitation Agencies (CASA), jointly referred to as the Associations, appreciate the opportunity to provide comments on Tentative Order NPDES Permit No. CA0038628 (Tentative Order) for Central Marin Sanitation Agency (CMSA), which also includes the “collection system agencies” of San Rafael Sanitation District, Ross Valley Sanitary District, and Sanitary District No. 2 of Marin County (Tentative Order). With the exception of CMSA, the agencies included in the Tentative Order are referred to in this letter as the “satellite collection systems.”

BACWA is a joint powers agency whose members own and operate publicly-owned treatment works (POTWs) 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 public agencies, governed by elected officials and managed by professionals who protect the environment and public health.

CASA represents more than 130 local public agencies engaged in the collection, treatment and recycling of wastewater and biosolids to protect public health and the environment. Our mission is to provide trusted information and advocacy on behalf of California clean water agencies, and to be a leader in sustainability and utilization of renewable resources. The Associations are concerned about the inclusion of the satellite collection systems in CMSA's NPDES permit.

The Associations support addressing inflow and infiltration (I/I) as the primary means to reduce blending, where needed to protect receiving water quality. Compared to wastewater treatment plant upgrades and expansion, work to improve collection systems, and to enhance repair and replacement programs, is a more sustainable means to manage problematic wet weather flows.

We appreciate that Regional Water Board staff worked with the satellite collection system agencies to develop the list of projects to reduce I/I that are included in Table 3 of the Tentative Order. However, it is not appropriate to include this list as enforceable provisions within CMSA's NPDES permit. (*See* Cal. Wat. Code §13360(a)(prohibiting regional boards from mandating the manner of compliance.)

REQUEST: The Associations recommend that satellite collection systems be removed from the list of “Dischargers” in the Tentative Order. If the projects listed in Table 3 need to be documented, they could be listed in the Fact Sheet, where it is common to note planned changes for the upcoming permit term. Alternatively, as suggested in the comment letter submitted by Ross Valley Sanitary District and San Rafael Sanitation District, CMSA could annually report on these activities.

The satellite collection systems are already subject to the Statewide General Order for Sanitary Sewer Systems (SSS-WDR), which includes provisions for controlling I/I in general. In December 2022, the SSS-WDR was reissued by the State Water Board as Order WQ 2022-0103-DWQ¹, providing an opportunity for the State Water Board to consider anew the idea of reissuing the SSS-WDR as an NPDES permit. The State Water Board considered, and soundly rejected, this idea. As described in the *Staff Response To Public Comments To Draft Statewide Sanitary Sewer Systems General Order*²:

“Waste discharge requirements are the appropriate regulatory mechanism to implement statewide prohibitions of sewage spills, and to require local sewer system management, operations, and repairs. The draft Order is not a permit to discharge; therefore, implementing an NPDES permit that permits a discharge of waste to waters of the United States, is not applicable” (pg. 18).

While it is reasonable that collection systems be encouraged to reduce excessive I/I that results in sewer spills or other adverse environmental impacts, the NPDES permit is not an appropriate vehicle to control these actions. The satellite collection systems do not routinely discharge to Waters of the United States, and therefore as regulated entities, should not be subject to federal jurisdiction. Moreover, including satellite agencies in NPDES permits opens them up to the potential for third party lawsuits under the Clean Water Act as well as USEPA enforcement, without providing any demonstrated water quality benefit to balance this increased liability. This is particularly true given that there are other apparatuses under which they can be regulated, such as California's Porter-Cologne Water Quality Control Act, which is the route that the State Water Board ultimately selected for the SSS-WDR.

The Associations urge the Regional Water Board to explore other mechanisms to regulate the

¹ Available online at

https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2022/wqo_2022-0103-dwq.pdf. Accessed March 2, 2023.

² Available online at https://www.waterboards.ca.gov/water_issues/programs/sso/docs/2022/response-to-comments-draft-sanitary-sewer-systems-order.pdf. Accessed March 2, 2023.

satellites' activities pertaining to I/I reduction, including those already required under the SSS-WDR. Under the SSS-WDR, collection systems are highly regulated and infractions can be enforced by the regional boards. The SSS-WDR requires collection systems to adopt and implement Sewer System Management Plans and Capital Improvement Programs, to keep these documents updated as conditions change, and to provide annual reports on their maintenance activities. The reissued SSS-WDR (WQ Order 2022-0103-DWQ, effective June 5, 2023) enhances the requirements found in the 2006 SSS-WDR, requiring that enrollees begin to:

- Implement capital improvements to provide adequate hydraulic capacity to prevent adverse impacts to the treatment efficiency of downstream wastewater treatment facilities (Section 5.10);
- Prioritize the condition assessment of system areas that hold a high level of environmental consequences if vulnerable to collapse, failure, blockage, capacity issues, or other system deficiencies (Attachment D, Section 8.1); and
- Use the findings of the condition assessments and capacity assessments to prioritize corrective actions (Attachment D, Section 8.3);

The new requirements listed above render the Tentative Order even more duplicative with the SSS-WDR than when CMSA's 2018 NPDES permit was first issued with the satellite collection systems listed as co-permittees. Furthermore, by mandating particular projects, particularly where resources are limited, the Tentative Order restricts the satellite collection systems in their ability to quickly respond to new operational issues as they arise, and fails to allow for schedules to be easily or quickly modified in the case of strike, emergency, pandemic, or other unanticipated situations.

The Tentative Order also arguably incorporates the SSS-WDR by reference, which exposes the permittees to federal liability for requirements to which they are already subject, regardless of this Order. If, contrary to the Associations recommendation, the satellite collection system agencies remain as co-permittees in the Final Order, the Associations recommend modifying language in Section 6.3.4.3 on page 14 as follows:

6.3.4.3. Collection System Management. The San Rafael Sanitation District, Ross Valley Sanitary District (previously Sanitary District No. 1 of Marin County), and Sanitary District No. 2 of Marin County shall [comply with only the applicable portions of Attachments D and G to](#) properly operate and maintain their respective collection systems (see Attachments D and G, section 1.4), report any noncompliance with respect to their respective collection systems (see Attachment D, section 5.5.1, and Attachment G, sections 5.5.1 and 5.5.2), and mitigate any discharges in violation of this Order associated with their respective systems (see Attachments D and G, section 1.3).

State Water Board Order 2006-0003-DWQ (Statewide General Waste Discharge Requirements for Sanitary Sewer Systems), as amended by Order WQ 2013-0058-EXEC, and superseded by State Water Board Order WQ 2022-0103-DWQ (Statewide Waste Discharge Requirements General Order for Sanitary Sewer

March 6, 2023

Page 4 of 4

Systems, effective June 5, 2023) (statewide WDRs), contains requirements for operation and maintenance of collection systems and for reporting and mitigating sanitary sewer overflows. While the San Rafael Sanitation District, Ross Valley Sanitary District, and Sanitary District No. 2 of Marin County must separately comply with both the statewide WDRs and this Order, the statewide WDRs clearly and specifically stipulate requirements for operation and maintenance and for reporting and mitigating sanitary sewer overflows, and the same programs satisfy the requirements specified in Attachments D and G cited above. ~~Implementing the requirements for operation and maintenance and mitigation of sanitary sewer overflows set forth in the statewide WDRs (and any subsequent order updating these requirements) shall satisfy the corresponding federal NPDES requirements specified in Attachments D and G of this Order for the collection systems. Following the reporting requirements set forth in the statewide WDRs (and any subsequent order updating those requirements) shall satisfy the NPDES reporting requirements for sanitary sewer overflows specified in Attachments D and G.~~

We appreciate your attention to our comments. Please do not hesitate to contact us with any questions or concerns.

Respectfully Submitted,



Adam D. Link
Executive Director
California Association of Sanitation Agencies



Lorien Fono, Ph.D., P.E.
Executive Director
Bay Area Clean Water Agencies

cc: BACWA Executive Board
Jason Dow, General Manager, Central Marin Sanitation Agency
Steve Moore, General Manager, Ross Valley Sanitary District
Doris Toy, District Manager, San Rafael Sanitation District
R.J. Suokko, District Manager, Sanitary District No. 2 of Marin County

Consequences of Indoor Water Use Efficiency Standards on Wastewater Collection & Treatment

Project Investigators

Dr. Kurt Schwabe, Professor of Environmental Economics and Policy, School of Public Policy, UCR

Dr. David Jassby, Associate Professor of Civil and Environmental Engineering, Samueli School of Engineering, UCLA

Issue: With rising concerns about water scarcity and water reliability, especially under climate change, California will be implementing measures and policies in 2024 to increase system resilience. A likely outcome of increasing indoor water use efficiency is lower and more concentrated flows to wastewater treatment plants (WWTP). More concentrated and lower flows can result in (i) reduced longevity of gravity-fed sewer collection lines due to increased (microbially-induced) corrosion thereby leading to heightened odors, contaminated water leaks, and more frequent replacement and/or the use of costlier construction materials, (ii) less efficient and costlier plant-specific treatment that arises due to the more concentrated flows, and (iii) lower treated effluent flows with potentially negative impacts on effluent uses, including water recycling and environmental flows.

Objective: The goal of this project is to evaluate how efforts to increase resilience in one part of California's water system in response to climate change—increasing indoor water use efficiency standards—may reduce reliabilities and increase costs in other parts of the system—i.e., wastewater treatment infrastructure and operations, including conveyance infrastructure, treatment plant infrastructure and operations, and effluent uses.

Deliverables: At the end of the one-year time horizon of the project, the project will provide:

- A characterization of wastewater influent and effluent under statutory and regulatory water use efficiency standards and how that characterization changes under different scenarios and solutions, including the baseline “business as usual” scenario.
- An evaluation of the impacts—physical, chemical, and economic—to conveyance infrastructure from increases in indoor water use efficiency standards and possible solutions.
- An evaluation of the impacts—physical, chemical, and economic—to the wastewater treatment plant infrastructure and operations from increases in indoor water use efficiency standards and possible solutions.
- A user-friendly computer program that can be applied to other systems and predict the impacts identified above under different scenarios and parameter assumptions.¹
- A report and up to four presentations given to regulatory agency staff and Board members of partner agencies.

Budget: The one-year project's budget includes support for post-doc/graduate student research, faculty time, and transportation to wastewater facilities to gather data.

- \$125,000

¹ The program would be similar to the model developed by the authors and used in:

- Tran, Q., Schwabe, K., Jassby, D. 2016. Wastewater Reuse for Agriculture: Development of a Regional Water Reuse Decision-Support Model (RWRM) for Cost-Effective Irrigation Sources. *Environmental Science and Technology*, DOI: 10.1021/acs.est.6b02073.
- Tran, Q., Jassby, D., Schwabe, K. 2017. The Implications of Drought & Water Conservation on the Reuse of Municipal Wastewater: Recognizing Impacts & Identifying Mitigation Possibilities. *Water Research* 124:472-81.




BACWA
BAY AREA
CLEAN WATER
AGENCIES

**BAY AREA CLEAN WATER AGENCIES
ANNUAL MEETING PROGRAM
May 5 2023
David Brower Center
Berkeley, CA**

TIME	DESCRIPTION	SPEAKER
8:30am - 9:00am	Coffee in the lobby	
9:00 am - 9:15 am	Welcome/Introduction Year in Review	Amit Mutsuddy, BACWA Chair/ EBMUD Lorien Fono, BACWA
9:15 am - 10:30 am	Regulator Priorities Bay Area Air Quality Management District EPA San Francisco Bay Regional Water Board staff State Water Resources Control Board staff Q&A	Moderator: Greg Nudd/Phil Fine Ellen Blake Tom Mumley/Eileen White Karen Mogus
10:30 am - 10:45 am	Break - Coffee and snacks in the foyer	
11:00 am - 12:30 pm	Nutrients - Moderated Discussion Overview (5min) Science Update (10min) Regulatory Perspective (10 min) GAR, Management Alternatives, and Recycled Water (10 min) NBS (5min) Facilitated Discussion	Moderator: Lorien Fono, BACWA David Senn, SFEI Tom Mumley R2 Mike Falk, HDR Ian Wren, Baykeeper and SFEI
12:30 pm - 1:30 pm	Lunch - On the terrace	
1:30 pm - 1:40 pm	Memorial for Dave Williams	Lorien Fono, BACWA & Lori Schectel, Central San?
1:40 pm - 1:50 pm	BACWA Leadership Recognition	Amit Mutsuddy, BACWA Chair/EBMUD
1:50 pm - 3:20 pm	BACWA Hot Topics PFAS Study - Phase 2 results Issues in AIR Regulatory Compliance Biosolids - a changing landscape Sanitary Sewer Systems General Order Extreme Precipitation/Climate Extremes	Moderator: Diana Lin, SFEI Courtney Mizutani, Mizutani Environmental Sarah Deslauriers, Carollo Mary Cousins, BACWA
3:20 pm - 3:30 pm	Annual Meeting Wrap-Up	Amit Mutsuddy, BACWA Chair/EBMUD
3:30pm	Adjourn - Social hour	

Draft FY 2024 Budget

		Final	DRAFT		
<u>BACWA FY23 BUDGET</u>	<u>Line Item Description</u>	<u>FY23 Budget</u>	<u>FY24 Budget</u>	<u>% change</u>	<u>FY24 NOTES</u>
<u>REVENUES & FUNDING</u>					
Dues	Principals' Contributions	\$527,250	\$537,795	2%	FY24: 2% increase 5 @ \$107,559
	Associate & Affiliate Contributions	\$187,793	\$190,078	2%	FY24: 2% increase. 12 Assoc: \$8876 47 Affiliate: \$1778
Fees	Clean Bay Collaborative	\$675,000	\$675,000	0%	Same as FY23. Prin: \$450,000; Assoc/Affil: \$225,000
	Nutrient Surcharge	\$1,400,000	\$1,400,000	0%	See Nutrient Surcharge Spreadsheet
	Member Voluntary Nutrient Contributions				
Other Receipts	AIR Non-Member	\$7,217	\$7,361	2%	2% increase (Santa Rosa)
	BAPPG Non-Members	\$4,033	\$4,114	2%	2% increase (Sta Rosa, Sac Reg'l, Vacaville) \$1,380/each
	Other				
Fund Transfer	Special Program Admin Fees (WOT)	\$5,202	\$1,000	-80%	
	BACC Admin Fees	\$36,000	\$38,250	7%	400 hours of AED support \$96.30/hr
	BABC Admin Fees	\$6,000	\$6,000	0%	ED, AED and RPM support
	CASA Air toxics passthrough		\$425,000		ESTIMATE: new line item in FY24
Interest Income	LAIF	\$4,000	\$60,000	1400%	BACWA, Legal, & CBC Funds invested in LAIF
	Total Revenue	\$2,852,495	\$3,344,598		
<u>BACWA FY23 BUDGET</u>					
	<u>Line Item Description</u>	<u>FY 23 Budget</u>	<u>FY24 Budget</u>		<u>FY24 NOTES</u>
<u>EXPENSES</u>					
Labor					
	Executive Director	\$204,250	\$218,548	7%	7% (incl 4.9% CPI SF Bay Metro Area Dec 2022)
	Assistant Executive Director	\$86,004	\$92,024	7%	7% (incl 4.9% CPI SF Bay Metro Area Dec 2022); \$76.69/hour; Reflects 1200 hours
	BACC Administrator	\$36,000	\$38,520	7%	400 hrs AED support at \$96.30 per hr
	Regulatory Program Manager	\$142,223	\$152,179	7%	7% (4.9% CPI SF Bay Metro Area Dec 2022); \$112.72/hour, Reflects 1350 hours
	Total	\$468,477	\$501,271		
Administration					
	EBMUD Financial Services	\$43,297	\$43,297	0%	FY24 no change
	Auditing Services	\$5,452	\$5,561	2%	Finanical Auditors through EBMUD; per auditor rate schedule
	Administrative Expenses	\$8,118	\$8,118	0%	FY24 no change
	Insurance	\$8,132	\$9,351	15%	15% increase from FY23 (10-15% est. increase per Alliant)
	Total	\$64,999	\$66,327		
Meetings					
	EB Meetings	\$2,706	\$2,760	2%	2% increase from FY23
	Annual Meeting	\$14,369	\$14,369	0%	FY24 no change
	Pardee	\$6,668	\$6,801	2%	2% increase from FY23
	Misc. Meetings and conferences	\$5,412	\$7,500	30%	30% increase from FY23 to accommodate conferences
	Total	\$29,155	\$31,430		

Draft FY 2024 Budget

EXPENSES					
Communication					
	Website Hosting / Domain registration	\$714	\$728	2%	2% increase from FY23, Go Daddy website hosting and domain registration
	File Storage	\$780	\$796	2%	2% increase from FY23, box.net
	Website Development/Maintenance	\$1,561	\$1,592	2%	2% increase from FY23
	IT Support (As Needed)	\$2,705	\$2,759	2%	2% increase from FY23
	BACWA Value of Wastewater Communication		\$40,000		New line item in FY24
	Other Communication	\$1,821	\$1,857	2%	2% increase from FY23; MS Exchange, Survey Monkey, PollEv, Zoom, Netfile
	Total	\$7,581	\$47,732		
Legal					
	Regulatory Support	\$2,871	\$2,929	2%	2% increase from FY23
	Executive Board Support	\$2,309	\$2,355	2%	2% increase from FY23
	Total	\$5,181	\$5,284		
Committees					
	AIR	\$76,000	\$76,000	0%	\$75k consulting support, \$1k misc expenses
	AIR support for ACE	\$20,000	\$20,000	0%	New in FY23
	BAPPG	\$130,000	\$159,000	17%	Includes CPSC @ \$5,000, OWOW @ \$10,000, NSAC @ \$10,000 and Pest. Reg Spt. @ \$71,500
	Biosolids Committee	\$0	\$0		
	Collections System	\$1,000	\$56,000	56%	SSS WDR Support
	InfoShare Groups	\$1,000	\$500	-50%	\$500 decrease from FY23
	Laboratory Committee	\$6,400	\$4,050	-37%	\$2,350 less than FY23, TNI training
	Permits Committee	\$1,000	\$500	-50%	\$500 decrease from FY23
	Pretreatment	\$1,000	\$500	-50%	\$500 decrease from FY23
	Recycled Water Committee	\$20,000	\$10,000	-50%	Carry forward from FY23
	Misc Committee Support	\$45,000	\$45,000	0%	Same as FY23
	Manager's Roundtable	\$1,000	\$1,000	0%	Same as FY23
	Total	\$302,400	\$372,550		
Collaboratives					
	Collaboratives				
	State of the Estuary (SFEP-biennial)	\$20,000	\$0	0%	Biennial in Odd Fiscal Years. (Paid biennially in odd years for even year conference)
	Arleen Navarret Award	\$2,500	\$2,500	0%	Likely pay FY24 award in FY25 depending on timing of awardee's conference
	BayCAN	\$5,000	\$5,000	0%	
	Stanford ERC (ReNUWit)	\$0			Program is sunseting
	Bay Area One Water Network	\$5,000	\$5,000	0%	Same as FY23
	Bruce Wolfe Scholarship	\$4,000	\$4,000	0%	FY22, FY23, FY24, FY25 FY26
	Passthrough to CASA for air toxics		\$425,000		ESTIMATE - new line item in FY24
	Misc	\$1,500	\$1,500	0%	NBWA
	Total	\$38,000	\$443,000		
Other					
	Unbudgeted Items				
	Other	\$0			
	Total	\$0			

Draft FY 2024 Budget

EXPENSES					
Tech Support					
	Technical Support				
	Nutrients				
	Watershed Permit NMS Contribution	\$1,800,000	\$1,800,000	0%	Advance funding for 2nd Watershed Permit Sciece Studies; Final \$ TBD
	NMS Voluntary Contributions	\$0			
	Additional work under permit	\$100,000	\$100,000	0%	Includes HDR PO for \$225k spread out over FY20-24.
	Regional Study on Nature Based Systems	\$248,811	\$80,000	-59%	SFEI \$500K, expires 06/30/2022; Possible funds left over from FY23 to be spent on additional work
	Regional Recycling Evaluation	\$63,525	\$0		HDR \$154K, expires 12/31/2023
	Nutrient Workshop(s)	\$0	\$0		Pilot Studies/Plant Review/Innovative Technologies; Might change
	NMS Reviewer	\$50,000	\$50,000	0%	M. Connor Contract
	General Tech Support	\$100,000	\$100,000	0%	AB617 emissions factors, PFAS, other nutrient support
	CEC Investigations	\$140,000	\$60,000	-57%	PFAS Study Phase II completion
	Risk Reduction	\$12,500	\$12,500	0%	APA FSS completed \$12,500 contract in FY20, CIEA will complete \$12,500 contract in FY23
	Total	\$2,514,836	\$2,202,500		
	TOTAL EXPENSES	\$3,430,628	\$3,670,095		
	NET INCOME BEFORE TRANSFERS	-\$578,133	-\$325,497		
	TRANSFERS FROM RESERVES	\$578,133	\$325,497		aligns with strategy of drawing down reserves to lessen impact of Nutrient Surcharge
	NET INCOME AFTER TRANSFERS	\$0	\$0		
	TOTAL OPERATING BUDGET	\$915,792			
	OPERATING RESERVE	\$228,948			

Budget & Workplan

FISCAL YEAR 2024



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INTRODUCTION

The Bay Area Clean Water Agencies (BACWA) is a joint public powers agency created by a 1984 Joint Powers Agreement (JPA) between the Central Contra Costa Sanitary District (CCCSD), the East Bay Dischargers Association (EBDA), the East Bay Municipal Utility District (EBMUD), the City of San Francisco, and the City of San Jose (collectively, “the Principal Agencies”). The JPA requires approval of an annual budget and workplan divided into three parts: overhead (Part A), general benefit programs (Part B), and special benefit programs (Part C).

The JPA requires that revenues for each fiscal year be equivalent to anticipated expenditures. Expenditures for Management & Administration (Part A), and General Benefit Programs (Part B) are funded by all BACWA members because these programs are carried out on behalf of all member agencies.

Since adoption of the Annual Budget for fiscal year 1984, and each fiscal year thereafter, the Executive Board has allocated Part A and Part B costs pursuant to authority provided in Section 10 of the Joint Powers Agreement among Member Agencies in the following manner (the “Allocation Method”):

- a. a stated portion to the Original Signatory Members in equal shares; and
- b. the balance to Associate and Affiliate Members based on one or more of several factors consisting of the type of agency, size of plant, metals loadings, and total inorganic nitrogen loadings in the ratio that their share is to that of the total Associate and Affiliate Membership.

On September 26, 2014 BACWA formally adopted this allocation through Executive Board Resolution R-2015-01. BACWA currently has two General Benefit Programs: the core BACWA program to support member agencies and the Clean Bay Collaborative. Expenditures for Special Benefit Programs (Part C) are funded by those agencies that elect to fund those programs because those benefits accrue primarily to those participating agencies.

In FY23 BACWA had three Special Benefit Programs, all of which conform to the JPA requirements under Part C.: Water Operator Training, the Bay Area Biosolids Coalition (BABC), and the Bay Area Chemical Consortium (BACC). The Water Operator Training program, also known as the Bay Area Consortium for Water/Wastewater Education (BACWWE) is a group of BACWA agencies who provide funding for operator educational opportunities. The Bay Area Biosolids Coalition is comprised of a subset of BACWA members who are pursuing alternatives for biosolids beneficial reuse and/or disposal in order to meet regulatory requirements for diversion of organics from landfills. The Bay Area Chemical Consortium is comprised of BACWA agencies as well as additional public water and wastewater agencies who work together to develop group chemical bids.

The purpose of this document is to fulfill the requirements of the JPA for Fiscal Year 2024 (FY24). This workplan and budget specify the purpose of each of BACWA’s programs during FY24, the methods by which they will be carried out, the products that will be developed, and the persons responsible for implementation. The schedule for implementation of these programs is July 1, 2023 through June 30, 2024.

STRATEGIC PLAN

BACWA adopted its first strategic plan and accompanying workplan in 2009. BACWA reformulated its strategic plan in 2020 and adopted updates in 2022. The strategic plan states the mission, vision values and goals of the organization as demonstrated in the work undertaken annually by the agency.

BACWA's Mission

To provide an effective regional voice for clean water agencies' stewardship of the San Francisco Bay's ecological, community, and economic resources.

BACWA's Vision

To demonstrate leadership in the protection and enhancement of the San Francisco Bay ecosystem.

BACWA's Values

- Environmental stewardship
- Leadership
- Science-based decision making
- Collaboration
- Fiscal responsibility
- Watershed-based solutions

BACWA's Goals

- Advocate for regulation based on science
- Foster collaboration and relationship building with regulators and other stakeholders
- Pursue regional, multi-benefit solutions to environmental challenges
- Exemplify service and responsiveness to members and the public
- Practice good governance

MANAGEMENT AND ADMINISTRATION (PART A)

BACWA has administrative and management expenses that are necessary for the agency to carry out its non-program related core functions (JPA, Section 9). They include expenses related to financial management, insurance, and organizational support. Administration of BACWA is carried out under contract by an Executive Director (ED), Assistant Executive Director (AED), and Regulatory Program Manager (RPM) selected by the Executive Board. Treasurer services are provided through an agreement with EBMUD who manages BACWA's finances and oversees the annual audit which is conducted by an independent auditor. The objective of these expenditures is to ensure effective, efficient, and transparent management of BACWA, which serves BACWA's goal to practice good governance. BACWA management and administration are funded through BACWA dues.

Management & Administration (A)				
Goal	Deliverables/Outcomes	Lead	FY24 Budget	Budget Line
A. Practice Good Governance (Labor, Meetings, Legal, Administration)	A.1. Monthly Treasurer Reports,	ED, AED, EBMUD	\$43,297	Administration/ EBMUD Financial Services
	A.2. Annual audit	ED, AED, Auditor	\$5,561	Administration/ Auditing Services
	A.3. Miscellaneous Operational Expenses	ED, AED, RPM	\$8,118	Administration/ Administrative Expenses
	A.4. Insurance to manage organizational risk	ED, AED	\$9,351	Administration/ Insurance
	A.5. Compliance with organizational legal requirements	ED, AED	\$2,355	Legal/Executive Board Support
	A.6. Program Administration and Operations Support	ED, AED, RPM	\$140,024	Labor/ ED (15%), RPM (10%) AED (100%),
	A.7. BACWA Executive Board Meetings & Administrative Expenses	ED, AED	\$2,760	Meetings/Exec. Board Meetings
	A.8. Pardee Technical Seminar & Administrative Expenses	ED, AED	\$6,801	Meetings/ Pardee Seminar
	A.9. Miscellaneous Meeting & Administrative Expenses	ED, AED, RPM	\$7,500	Meetings/ Misc. Meetings
	A.10. File Storage	ED, AED	\$796	Communications/File Storage
	A.11. IT Support (As Needed)	ED, AED	\$2,759	Communications/IT Support
	A.112. Software (As Needed)	ED, AED	\$1,857	Communications/Software
	A.113. BACWA Value of Wastewater Communication		40,000	Communications
		TOTAL	\$271,179	

GENERAL BENEFIT PROGRAMS (PART B)

There are two aspects of BACWA's general benefit program: the core BACWA Member Agency program and the technically-focused Clean Bay Collaborative (CBC) program. Activities in these Programs are supported by the ED, AED, RPM, volunteers who Chair the BACWA Committees, and consultant support as needed.

BACWA MEMBER AGENCY PROGRAM (PART B1)

The **BACWA Member Agency Program (B1)** serves BACWA's goals to (1) exemplify service and responsiveness to members and the public; and to (2) foster collaboration and relationship building with regulators and other stakeholders

These goals are accomplished by providing member agencies with information on regulations, scientific and technical developments; forums for participating in policy discussions and collaborating on mutually beneficial projects; and opportunities to engage with the larger Bay Area environmental community. Program expenses include support for committee facilitation and special projects; member workshops and trainings; membership in state and national organizations that disseminate information to members; and communication expenses such as the website, newsletters, the annual report, and the annual meeting. The BACWA Member Agency program is funded by BACWA dues.

CLEAN BAY COLLABORATIVE (CBC) (PART B2)

The purpose of the **CBC program (B2)** is to respond to current regulatory requirements and to develop scientific, technical, and industry information to inform future regulations and policies affecting Bay Area POTWs and the environment. These effort support BACWA's goals to: (1) Advocate for regulation based on science; (2) Foster collaboration and relationship building with regulators and other stakeholders; and (3) Pursue regional, multi-benefit solutions to environmental challenges. Program expenses include the costs of targeted special studies and reports requested by or used to inform policy discussions with regulatory agencies, policy strategy development and implementation, and collaborations with statewide organizations to do the same. The CBC program is funded through CBC fees and the Nutrient Surcharge.

Bay Area Clean Water Agency Program (B1)				
Goal(s)	Deliverables/Outcomes	Lead	FY23 Budget	Budget Line
B1. Exemplify service and responsiveness to members and the public; and foster collaboration and relationship building with regulators and other stakeholders (Committees, Labor, Meetings, Administration, Communications, Collaborations)	B1.1. AIR Committee Support - Admin Support - Technical Support	Chair, AED, RPM, Consultant	\$76,000	Committees/AIR Comm.
	B1.2. AIR Support for ACE		\$20,000	Committees / AIR support for ACE
	B1.3. BAPPG Committee Support - Multiple Programs for public education and outreach, and regulatory advocacy	Chair, AED, RPM, Consultants	\$159,000	Committees/BAPPG Comm.
	B1.4. Biosolids Comm. Support - Misc. Expenses	Chair	\$0	Committees/Biosolids Comm.
	B1.5. Collection Systems Comm. Support - Misc. Expenses	Chair, RPM	\$56,000	Committees/Collection Systems Comm.
	B1.6. InfoShare Groups Support (Ops & Maint/Asset Mgmt) - Misc. Expenses	Chair, RPM	\$500	Committees/Asset Management and O&M InfoShare Groups
	B1.7. Laboratory Comm. Support - Misc. Expenses	Chair, RPM	\$4,050	Committees/Laboratory Comm.

B1.8. Permits Comm. Support - Misc. Expenses	Chair, RPM	\$500	Committees/Permits Comm.
B1.9. Pretreatment Committee, - Misc. Expenses	Chair	\$500	Committees/Pretreatment Comm.
B1.10. Recycled Water Comm., Misc. Expenses	Chair, RPM	\$10,000	Committees/Recycled Water Comm.
B1.11 Misc. Committee Support	ED, AED, RPM	\$45,000	Committees/ Misc. Comm. Support
B1.12. Manager's Roundtable, Misc. Expenses	ED, AED	\$1,000	Committees/ Manager's Roundtable
B1.13. Executive Director	Board Chair	\$185,765	Labor/ ED (85%)
B1.14. Legal Support, provide review of regulatory products	ED	\$2,929	Legal/ Regulatory Legal Support
B1.15. Regulatory Program Manager	RPM	\$106,525	Labor/ RPM (70%)
B1.16. Annual Meeting	ED, AED, RPM	\$14,369	Meetings/ Annual Meeting
B.17. Website Hosting	ED, AED, Consultant	\$728	Communications/ Website Hosting
B.18. Website Development/Maintenance	ED, AED, RPM, Consultant	\$1,592	Communications/ Website Dev/Maint
B1.19. State of the Estuary	ED, AED	\$0	Collaboratives, State of the Estuary
B1.20. Arleen Navarret Award	ED, AED	\$2,500	Collaboratives, Arleen Navarret Award
B1.21. BayCAN	ED, AED	\$5,000	Collaboratives, New FY22
B1.22 Bay Area One Water Network		\$5,000	Collaboratives, Bay Area One Water Network
B1.23. Bruce Wolf Scholarship		\$4,000	Collaboratives / Bruce Wolf Scholarship
B1.24. Miscellaneous	ED, AED	\$1,500	Collaboratives, Misc.

Clean Bay Collaborative (B2)

B2. Clean Bay Collaborative (1) Advocate for regulation based on science; (2) Foster collaboration and relationship building with	B2.1. Watershed Permit NMS Contribution	ED, RPM, Consultant	\$1,800,000	Tech. Support/ Nutrients/Watershed Permit Obligation
	B2.2. NMS Voluntary Contributions	ED, RPM	\$0	Tech. Support/ Nutrients/Watershed/Vol Contributions
	B2.3. Additional Work Needed Under Permit	ED, RPM, Consultant	\$100,000	Tech. Support/ Nutrients/Add'l Work Under Permit/ GAR etc.

regulators and other stakeholders; and (3) Pursue regional, multi-benefit solutions to environmental challenges.	B2.4. Regional Study on Nature Based Systems	ED, RPM, Consultant	\$100,000	Tech. Support/ Nutrients/Reg'l Study Non-Gray Scape
	B2.5. Regional Recycled Water Evaluation	ED, RPM	\$0	Tech. Support/ Nutrients/Member Vol Nutrient Contributions
	B2.6. Nutrient Workshop(s)	ED, RPM, Consultant	\$0	Tech. Support/ Nutrient Workshop(s)
	B2.7. NMS Reviewer	Consultant	\$50,000	Tech. Support/NMS Reviewer
	B2.8. General Tech Support	ED, RPM, Consultants	\$100,000	Tech. Support, General Tech Support: PEEP, PFAS, Nutrient Review
	B2.9. CEC Investigations – support for regional PFAS study	ED, RPM, Consultants	\$60,000	Tech Support/CEC studies for POTWs – New FY22
	B2.10. Risk Reduction	ED, RPM, Consultants	\$12,500	Tech, Support/ Risk Reduction
	B2.1. General Technical and Regulatory Support	ED, RPM	\$30,435	Labor/ RPM (20%)
		TOTAL	\$2,955,393	

SPECIAL BENEFITS PROGRAMS (PART C)

BACWA has three active special benefit programs: Water Operator Training also known as BACWWE, Bay Area Biosolids Coalition (BABC), and Bay Area Chemical Consortium (BACC). These programs are administered under Part C of the JPA Annual Budget and Workplan.

Member dues for Wastewater Operator Training (BACWWE) are optional and are established on an annual basis by its Program members with training offered at community colleges throughout the BACWA service area. In FY24, BACWWE is considering revamping their program, which will affect how the program is funded, and whether it will continue to be a program of special benefit.

BABC became a Special Benefits Program in FY 20. BABC is governed by a Steering Committee that establishes its budget and associated revenue needs on an annual basis. BABC funds support the furthering the goal of its strategic plan, which include communicating the value of biosolids, advancing scientific research, supporting the expansion of biosolids land application, and supporting the development of biosolids management options in the Bay Area.

BACC became a Special Benefits Program in FY 20. BACC is an administrative program governed by BACWA and supported by the BACWA ED and AED. BACC solicits chemical bid information from more

than 60 member agencies, then arranges a group bid. BACC participant agencies are invoiced for BACWA labor and other expenses related to bid administration at the end of each fiscal year.

<u>WATER OPERATOR TRAINING (PART C1)</u>		
<u>Deliverables/Outcomes</u>	<u>Manager</u>	<u>FY 24 Budget</u>
Encourage development of a skilled workforce by offering classes in conjunction with a local community college.	Program Participant Reps; ED, AED	To be determined by member interest.

<u>BAY AREA BIOSOLIDS COALITION (PART C2)</u>		
<u>Deliverables/Outcomes</u>	<u>Manager</u>	<u>FY 24 Budget</u>
Pursue alternatives for biosolids beneficial reuse and/or disposal in order to meet future regulatory requirements for diversion of organics from landfills	Program Participant Reps; ED, RPM, AED	To be determined by member interest.

<u>BAY AREA CHEMICAL CONSORTIUM (PART C3)</u>		
<u>Deliverables/Outcomes</u>	<u>Manager</u>	<u>FY 24 Budget</u>
Administer a series of chemical bids for participating agencies.	ED, AED	To be determined by level of effort and expenses associated with program administration and legal reserve development.

FISCAL YEAR 2024 BUDGET

BACWA/CBC	2024 Budget	Notes
<u>REVENUES</u>		
BACWA Principals' Contributions	537,795	2% increase, 5@ \$107,559
BACWA Assoc. & Affil. Contributions	190,078	2% increase. 12 Assoc: \$8876; 47 Affiliate: \$1778
Clean Bay Collaborative (CBC)	675,000	Prin: \$450,000; Assoc / Affil: \$225,00
Nutrient Surcharge	1,400,000	2 nd Watershed Permit Requirement
Voluntary Nutrient Contributions	0	
AIR Non-Members	7,361	2% increase.
BAPPG Non-Members	4,114	2% increase.
Other/Special Program Admin Fees (WOT)	1,000	No increase.
Other/Special Program Admin Fees (BABC)	6,000	Based on staff hours, AED, RPM, and ED
Other/Special Program Admin Fees (BACC)	38,250	400 hours AED support
Interest Income (LAIF)	60,000	Includes BACWA & Nutrient Funds
Interest Income (higher yield Investments)	0	Alternative Investments

TOTAL	2,919,598	
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EXPENSES		
Labor	501,271	
Executive Director	218,549	7% increase
Assistant Executive Director	92,024	7% increase; \$76.69/hour; Reflects 1200 hours
BACC Administrator	38,250	400 hrs AED support at \$96.30 per hr
Regulatory Program Manager	152,179	7% increase; \$112.75/hour, Reflects 1350 hours
Administration	66,327	
EBMUD Financial Services	43,297	FY24 no change
Auditing Services	5,651	Financial audit through EBMUD
Administrative Expenses	8,118	FY24 no change
Insurance	9,351	15% increase
Meetings	31,430	
EB Meetings	2,760	2% increase
Annual Meeting	14,369	FY24 no change
Pardee	6,801	2% increase
Misc.	7,500	30% increase from FY23 to accommodate conferences
Communications	47,732	
Web Hosting / Domain Registration	728	2% increase
File Storage	796	2% increase, box.net
Website Development/Maint.	1,592	2% increase
IT Support (As Needed)	2,759	2% increase
BACWA Value of Wastewater Communication	40,000	New line in FY24
Other Communications/Software	1,857	2% increase. MS Exchange/Survey Monkey/Poll Everywhere/Zoom/ NetFile
Legal Support	5,284	
Regulatory Support	2,929	2% increase
Executive Board Support	2,355	2% increase
BACWA Committees	372,550	
AIR	76,000	Consultant support
AIR support for ACE	20,000	New FY23
BAPPG	159,000	Technical support and outreach contracts
Biosolids Committee	0.00	
Collections System	56,000	
InfoShare Groups	500	
Laboratory Committee	4050	TNI standard training and meetings
Permit Committee	500	
Pretreatment Committee	500	
Recycled Water Committee	10,000	
Misc. Committee Support	45,000	
Manager's Roundtable	1,000	
Collaboratives	18,000	

State of the Estuary	0	Biennial in odd fiscal years
Arleen Navarret Award	2,500	Biennial in even fiscal years
BayCAN	5,000	
Bay Area One Water Network	5,000	New FY23
Bruce Wolf Scholarship	4,000	FY22, FY23, FY24, FY25 FY26
Misc.	1,500	NBWA
Technical Support	\$2,222,500	
Nutrients		
Watershed	1,800,000	Advanced funding for 2 nd Watershed Permit Science Studies – not to exceed value.
NMS Voluntary Contributions	0	
Additional Work Under Permit	100,000	Includes HDR PO for \$225K spread out over FY20-24
Regional Study on Nature Based Systems	100,000	
Regional Recycling Evaluation	0	
Nutrient Workshop(s)	0	
NMS Reviewer	50,000	
General Technical Support	100,000	AB617 emissions factors, nutrient technical review, other nutrient support, PFAS
CEC Investigations	60,000	PFAS Study Phase II completion
Risk Reduction	12,500	APA FSS completed \$12,500 contract in FY20, CIEA will complete \$12,500 contract in FY23
TOTAL	\$3,265,095*	

*FY24 Budget Expense Total includes BACC Administration expense and WorkPlan tables A&B do not.

* CASA Air Toxics pass through program is on FY24 Budget and presented in table below.

WOT	2024 Budget (Est)	Notes
REVENUES	0	
Participant's Contributions	0	Est. depends on member interest.
EXPENSES	85,200	
Contract expenses	80,000	Est. depends on member interest.
BACWA Indirect Expenses	1,000	Per BACWA Policy
TOTAL	-85,200	Funding transferred from WOT reserve

BABC	2024 Budget (Est)	Notes
REVENUES	186,500	
Participant's Contributions	186,500	Est. depends on member interest.
EXPENSES	186,500	
Contract expenses	180,500	Est. depends on member interest.
BACWA Indirect Expenses	6,000	Per BACWA Policy
TOTAL	0	

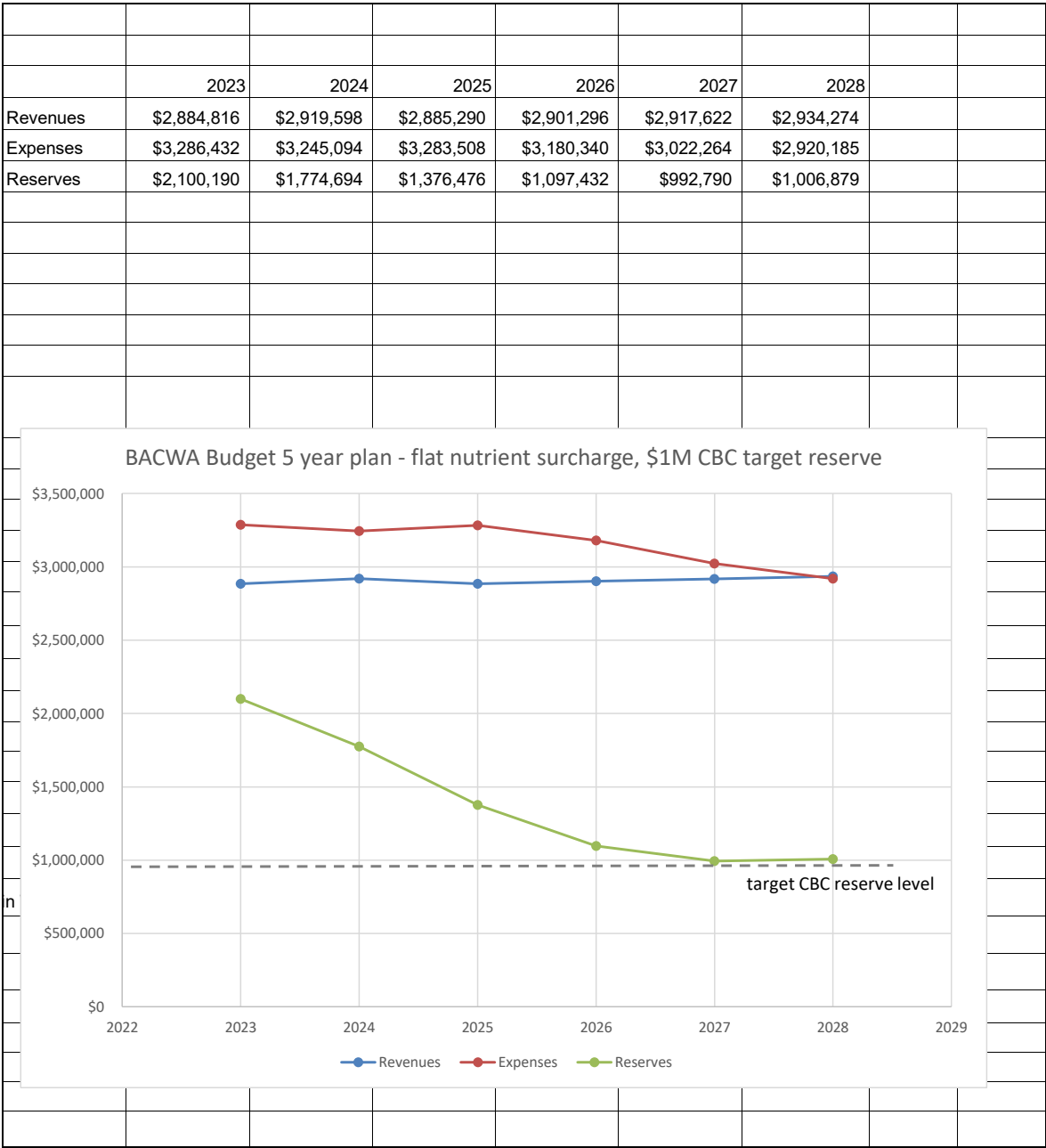
BACC	2024 Budget (Est)	Notes
<u>REVENUES</u>	\$78,169.01	
Participant's Contributions	\$78,169.01	Est. equivalent to expenses.
<u>EXPENSES</u>	\$78,168.01	
Bid software	\$4,272.19	
BACC Legal reserve	\$30,000	Target total reserve \$150,000 to be built over 5 years.
Miscellaneous expenses	\$6,896.82	
BACWA Indirect Expenses	\$37,000	Per BACWA Policy, reflect level of effort.
TOTAL	0	

The California Association of Sanitation Agencies (CASA) has requested that the Regional Associations, including BACWA, collect funds from their members in support of a statewide air toxics testing initiative. BACWA would collect the estimated revenues presented below and pass them through directly to CASA. This would not be a program of special benefit, and it would not impact BACWA's overall budget as revenues and expenses are expected to be equivalent.

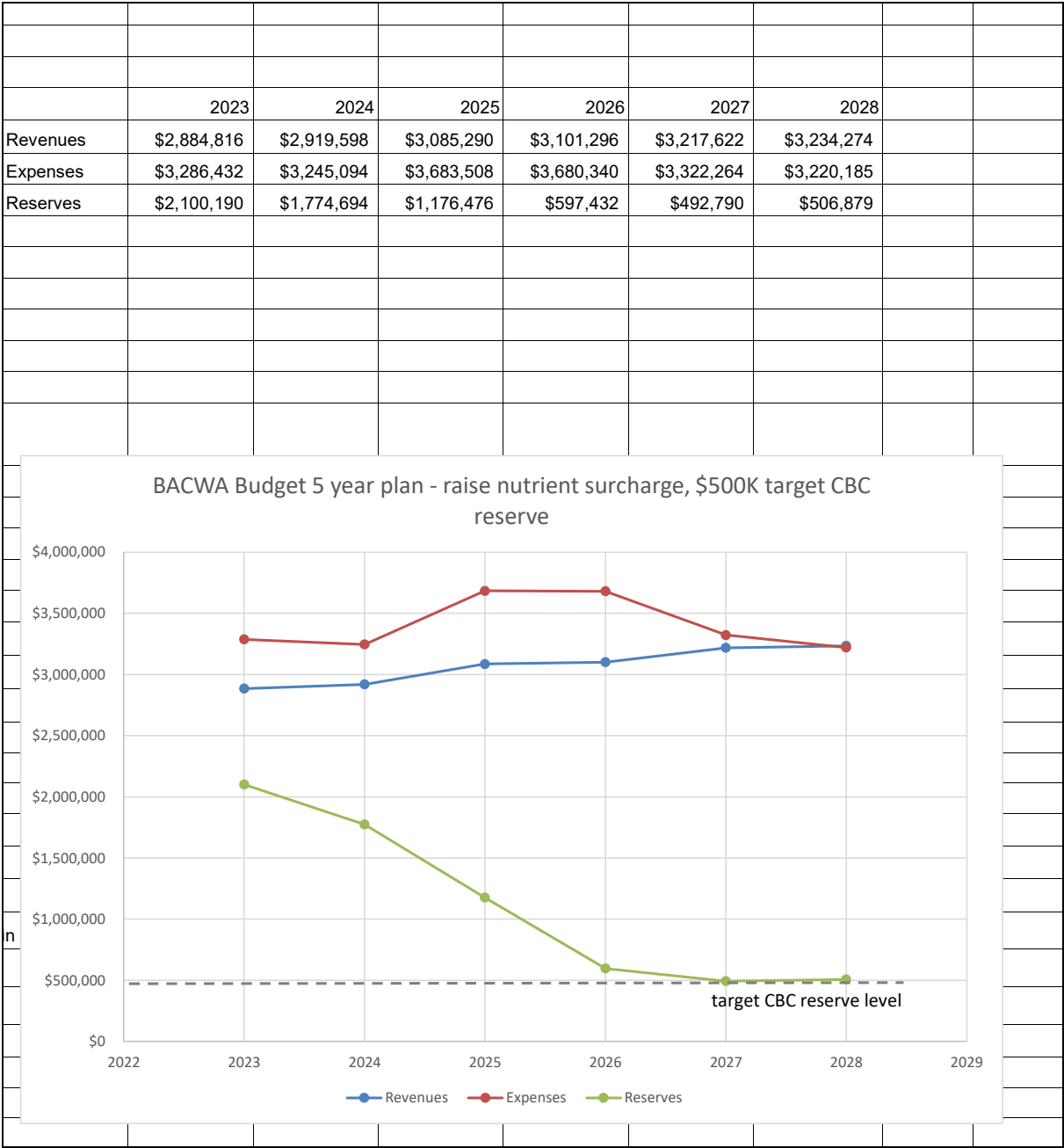
CASA Air Toxics	2024 Budget	Notes
<u>REVENUES</u>	\$425,000	
Participant's Contributions	\$425,000	Fees collected from BACWA members
<u>EXPENSES</u>	\$425,000	
CASA Air Toxics program	\$425,000	100% fees passed on to CASA.
TOTAL	0	

Nutrient Surcharge													
		2nd watershed permit calcs											
BACWA Agency	Subembayment	2019/20	2021/2022	2022/23	Average of Oct 2019 - Sept 2022 (3 Years)	% (based on TIN) FY23	% (based on TIN) FY24	FY 23 Nutrient Surcharge*	FY 24 Nutrient Surcharge*	% Change from FY23 to FY24	\$ \$ Change from FY23 to FY24	% Change in Load FY23 to FY24	% Change in % Contribution from FY22 to FY23 (New Metric)
Basis for Allocation								TIN (Oct 2018- Sept 2021)	TIN (Oct 2019- Sept 2022)				
Amount Needed Science Funding								1,400,000	1,400,000				
CCCSD	Suisun Bay	3,980	4,260	4,160	4,133	8.08%	8.66%	\$113,065	\$121,245	6%	\$ 8,180	3%	7%
EBDA	South Bay	8,950	7,710	7,900	8,187	16.94%	17.15%	\$237,125	\$240,143	1%	\$ 3,017	-3%	1%
EBMUD	Central Bay	9,320	8,630	9,890	9,280	18.32%	19.44%	\$256,486	\$272,214	5%	\$ 15,727	2%	6%
San Jose	Lower South Bay	4,880	4,080	3,450	4,137	9.71%	8.67%	\$135,903	\$121,342	-9%	\$ (14,561)	-14%	-11%
SFPUC Southeast	South Bay	7,210	6,500	6,880	6,863	15.15%	14.38%	\$212,031	\$201,325	-4%	\$ (10,706)	-9%	-5%
American Canyon	San Pablo Bay	33.1	17.8	18.9	23.3	0.06%	0.05%	\$829	\$682	-13%	\$ (146)	-21%	-18%
Benicia	San Pablo Bay	211	228	211	217	0.44%	0.45%	\$6,212	\$6,356	2%	\$ 143	-2%	2%
Burlingame	South Bay	460	402	349	404	0.89%	0.85%	\$12,481	\$11,841	-5%	\$ (640)	-9%	-5%
CMSA	Central Bay	1,170	1,090	1,030	1,097	2.27%	2.30%	\$31,767	\$32,169	1%	\$ 402	-3%	1%
Crockett (Port Costa)	San Pablo Bay	1.45	1.29	2.22	1.65	0.00%	0.00%	\$32	\$48	36%	\$ 16	44%	50%
Delta Diablo	Suisun Bay	1,330	1,210	1,100	1,213	2.71%	2.54%	\$37,970	\$35,591	-5%	\$ (2,379)	-10%	-6%
FSSD	Suisun Bay	1,040	1,010	1,120	1,057	2.13%	2.21%	\$29,887	\$30,996	3%	\$ 1,108	0%	4%
Las Gallinas ^(b)	San Pablo Bay	160	128	53.1	113.7	0.30%	0.24%	\$4,145	\$3,335	-17%	\$ (810)	-23%	-20%
MSD 5 (Tiburon & Paradise Cove)	Central Bay	35.59	42.82	57.656	45.355	0.09%	0.10%	\$1,221	\$1,330	7%	\$ 109	5%	9%
Millbrae	South Bay	288	278	245	270	0.57%	0.57%	\$8,008	\$7,930	-1%	\$ (78)	-5%	-1%
Mt. View	Suisun Bay	112	99.2	70.6	93.9	0.22%	0.20%	\$3,066	\$2,755	-8%	\$ (310)	-14%	-10%
Napa SD	San Pablo Bay	152	41.1	119	104	0.34%	0.22%	\$4,719	\$3,052	-25%	\$ (1,667)	-38%	-35%
Novato SD	San Pablo Bay	112	94.5	92.2	99.6	0.27%	0.21%	\$3,802	\$2,921	-18%	\$ (881)	-26%	-23%
Palo Alto	Lower South Bay	2,220	1,950	2,150	2,107	4.35%	4.41%	\$60,903	\$61,796	1%	\$ 893	-2%	1%
Petaluma	San Pablo Bay	6.68	5.31	7.14	6.38	0.02%	0.01%	\$340	\$187	-39%	\$ (153)	-47%	-45%
Pinole	San Pablo Bay	232	273	410	305	0.49%	0.64%	\$6,880	\$8,947	24%	\$ 2,067	25%	30%
Rodeo SD	San Pablo Bay	38.7	31.6	50.8	40.4	0.07%	0.08%	\$1,021	\$1,184	14%	\$ 163	12%	16%
SFO Airport	South Bay	25.2	55.1	72.8	51.0	0.13%	0.11%	\$1,760	\$1,497	-9%	\$ (263)	-18%	-15%
San Mateo	South Bay	1,330	1,380	1,390	1,367	2.85%	2.86%	\$39,850	\$40,089	1%	\$ 239	-3%	1%
Sausalito-Marin City SD	Central Bay	124	141	116	127	0.27%	0.27%	\$3,750	\$3,725	-1%	\$ (25)	-5%	-1%
Sewerage Agency of SM	Central Bay	219	227	227	224	0.44%	0.47%	\$6,175	\$6,580	6%	\$ 406	2%	7%
Sonoma Co Water Ag	San Pablo Bay	0	0	0.871	0.290	0.02%	0.00%	\$281	\$9	-84%	\$ (273)	-97%	-97%
SVCW	South Bay	2,590	2,410	2,670	2,557	5.13%	5.36%	\$71,805	\$74,996	4%	\$ 3,191	0%	4%
South SF	South Bay	1,160	1,160	1,030	1,117	2.44%	2.34%	\$34,117	\$32,756	-4%	\$ (1,361)	-8%	-4%
Sunnyvale	Lower South Bay	810	900	846	852	1.80%	1.79%	\$25,132	\$24,992	0%	\$ (140)	-4%	-1%
Treasure Island	Central Bay	20.9	19	16.9	18.93	0.04%	0.04%	\$506	\$555	10%	\$ 50	6%	10%
Vallejo Sanitation & FCD	San Pablo Bay	851	849	826	842	1.76%	1.76%	\$24,699	\$24,699	0%	\$ (1)	-4%	0%
West County Agency	Central Bay	799	761	763	774	1.72%	1.62%	\$24,032	\$22,714	-5%	\$ (1,318)	-9%	-5%
		49,872	45,985	47,325	47,727								
Principals Only		34,340	31,180	32,280	32,600	68.19%	68.30%	\$954,611	\$956,269				
Total w/o principals		15,532	14,805	15,045	15,127	31.81%	31.70%	\$445,389	\$443,731				
Total						100.00%	100.00%	\$1,400,000	\$1,400,000				

5 Year Plan to Eliminate Excess Reserves (CBC @ \$1,000,000) - \$2.2M/yr NMS payment through FY28										
			2022 (actual)	2023 (adopted)	2023 (projected)	2024 (proposed)	3rd WS PERMIT(tbd) 2025 proposed	2026 proposed	2027 propose	2028 propose
REVENUES										
	Dues	Principals' Contributions	\$516,910	\$527,250	\$527,250	\$537,795	\$548,551	\$559,522	\$570,712	\$582,127
		Assoc. & Aff. Contributions	\$183,175	\$187,793	\$187,793	\$190,078	\$193,880	\$197,757	\$201,712	\$205,747
	Fees	Clean Bay Collaborative Fee	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000
		Nutrient Surcharge	\$1,700,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000
		Member Vol. Nutrient Contributions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Other Receipts	Non-BACWA AIR	\$7,074	\$7,217	\$7,217	\$7,361	\$7,509	\$7,659	\$7,812	\$7,968
		Non-BACWA BAPPG Fee	\$3,954	\$4,033	\$4,033	\$4,114	\$4,196	\$4,280	\$4,365	\$4,453
		Other	\$3,601		\$18,489	\$0	\$0	\$0	\$0	\$0
	Fund Transfer	Special Program Admin Fees (WOT, BABC, BACC)	\$34,644	\$47,202	\$41,000	\$45,250	\$46,155	\$47,078	\$48,020	\$48,980
	Investment Income	LAIF	\$6,312	\$4,000	\$24,034	\$60,000	\$10,000	\$10,000	\$10,000	\$10,000
		Higher Yield Investments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL REVENUES		Total	\$3,130,670	\$2,852,495	\$2,884,816	\$2,919,598	\$2,885,290	\$2,901,296	\$2,917,622	\$2,934,274
EXPENSES										
	Labor		\$380,607	\$468,477	\$468,477	\$501,271	\$516,309	\$531,798	\$547,752	\$564,185
	Administration		\$45,084	\$64,999	\$64,438	\$66,327	\$67,654	\$69,007	\$70,387	\$71,794
	Meetings		\$13,286	\$29,155	\$25,919	\$31,430	\$32,059	\$32,700	\$33,354	\$34,021
	Communication		\$2,638	\$7,581	\$7,581	\$47,732	\$48,687	\$49,660	\$50,654	\$51,667
	Legal		\$120	\$5,181	\$5,181	\$5,284	\$5,390	\$5,497	\$5,607	\$5,720
	Committees		\$216,735	\$303,000	\$302,000	\$372,550	\$372,550	\$372,550	\$372,550	\$372,550
	Collaboratives		\$10,500	\$38,000	\$38,000	\$18,000	\$38,360	\$16,627	\$39,460	\$17,749
	Other			\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Technical Support	Nutrients								
		Permit Req'm't for Science Funding	\$2,200,000	\$2,200,000	\$2,200,000	\$2,200,000	\$1,800,000	\$1,700,000	\$1,500,000	\$1,500,000
		NMS Advance on Future Funding	\$0	(\$400,000)	(\$400,000)	(\$400,000)				
		NMS Voluntary Contributions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Additional Work Under Permit	\$26,602	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
		Nature Based Solutions Study	\$41,091	\$248,811	\$168,811	\$80,000	\$0	\$0	\$0	\$0
		Regional Recycling Report	\$43,198	\$63,525	\$63,525	\$0	\$0	\$0	\$0	\$0
		3rd WSP Special Studies					\$100,000	\$100,000	\$100,000	\$0
		Member Voluntary Contributions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Nutrient Workshops	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		NMS Reviewer	\$12,750	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
		General Tech Support	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
		CEC Investigations	\$101,014	\$140,000	\$80,000	\$60,000	\$40,000	\$40,000	\$40,000	\$40,000
		Risk Reduction	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500
	Total Technical Support		\$2,437,155	\$2,514,836	\$2,374,836	\$2,202,500	\$2,202,500	\$2,102,500	\$1,902,500	\$1,802,500
TOTAL EXPENSES			\$3,106,125	\$3,431,229	\$3,286,432	\$3,245,094	\$3,283,508	\$3,180,340	\$3,022,264	\$2,920,185
NET INCOME BEFORE TRANSFERS			\$24,545	(\$578,734)	(\$401,616)	(\$325,496)	(\$398,218)	(\$279,044)	(\$104,642)	\$14,089
TRANSFERS TO (+)/FROM(-) RESERVES			\$24,545	(\$578,734)	(\$401,616)	(\$325,496)	(\$398,218)	(\$279,044)	(\$104,642)	\$14,089
RESERVES										
	Operating Target	\$200,000								
	Legal Target	\$300,000								
	CBC Target	\$1,000,000								
	Target Reserves	\$1,500,000								
	Total Reserves at End of FY22		\$3,001,806		\$2,600,190	\$2,274,694	\$1,876,476	\$1,597,432	\$1,492,790	\$1,506,879
Amt. Above CBC Target End of FY 21 (projected)			\$1,501,806		\$1,100,190	\$774,694	\$376,476	\$97,432	(\$7,210)	\$6,879



	5 Year Plan to Eliminate Excess Reserves (CBC @ \$500,000) - raise nutrient surcharge									
							3rd WS PERMIT(tbd)			
			2022 (actual)	2023 (adopted)	2023 (projected)	2024 (proposed)	2025 proposed	2026 proposed	2027 propose	2028 propose
REVENUES										
	Dues	Principals' Contributions	\$516,910	\$527,250	\$527,250	\$537,795	\$548,551	\$559,522	\$570,712	\$582,127
		Assoc. & Aff. Contributions	\$183,175	\$187,793	\$187,793	\$190,078	\$193,880	\$197,757	\$201,712	\$205,747
	Fees	Clean Bay Collaborative Fee	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000
		Nutrient Surcharge	\$1,700,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,600,000	\$1,600,000	\$1,700,000	\$1,700,000
		Member Vol. Nutrient Contributions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Other Receipts	Non-BACWA AIR	\$7,074	\$7,217	\$7,217	\$7,361	\$7,509	\$7,659	\$7,812	\$7,968
		Non-BACWA BAPPG Fee	\$3,954	\$4,033	\$4,033	\$4,114	\$4,196	\$4,280	\$4,365	\$4,453
		Other	\$3,601		\$18,489	\$0	\$0	\$0	\$0	\$0
	Fund Transfer	Special Program Admin Fees (WOT, BABC, BACC)	\$34,644	\$47,202	\$41,000	\$45,250	\$46,155	\$47,078	\$48,020	\$48,980
	Investment Income	LAIF	\$6,312	\$4,000	\$24,034	\$60,000	\$10,000	\$10,000	\$10,000	\$10,000
		Higher Yield Investments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL REVENUES		Total	\$3,130,670	\$2,852,495	\$2,884,816	\$2,919,598	\$3,085,290	\$3,101,296	\$3,217,622	\$3,234,274
EXPENSES										
	Labor		\$380,607	\$468,477	\$468,477	\$501,271	\$516,309	\$531,798	\$547,752	\$564,185
	Administration		\$45,084	\$64,999	\$64,438	\$66,327	\$67,654	\$69,007	\$70,387	\$71,794
	Meetings		\$13,286	\$29,155	\$25,919	\$31,430	\$32,059	\$32,700	\$33,354	\$34,021
	Communication		\$2,638	\$7,581	\$7,581	\$47,732	\$48,687	\$49,660	\$50,654	\$51,667
	Legal		\$120	\$5,181	\$5,181	\$5,284	\$5,390	\$5,497	\$5,607	\$5,720
	Committees		\$216,735	\$303,000	\$302,000	\$372,550	\$372,550	\$372,550	\$372,550	\$372,550
	Collaboratives		\$10,500	\$38,000	\$38,000	\$18,000	\$38,360	\$16,627	\$39,460	\$17,749
	Other			\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Technical Support	Nutrients								
		Permit Req'm't for Science Funding	\$2,200,000	\$2,200,000	\$2,200,000	\$2,200,000	\$2,200,000	\$2,200,000	\$1,800,000	\$1,800,000
		NMS Advance on Future Funding	\$0	(\$400,000)	(\$400,000)	(\$400,000)				
		NMS Voluntary Contributions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Additional Work Under Permit	\$26,602	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
		Nature Based Solutions Study	\$41,091	\$248,811	\$168,811	\$80,000	\$0	\$0	\$0	\$0
		Regional Recycling Report	\$43,198	\$63,525	\$63,525	\$0	\$0	\$0	\$0	\$0
		3rd WSP Special Studies					\$100,000	\$100,000	\$100,000	\$0
		Member Voluntary Contributions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Nutrient Workshops	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		NMS Reviewer	\$12,750	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
		General Tech Support	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
		CEC Investigations	\$101,014	\$140,000	\$80,000	\$60,000	\$40,000	\$40,000	\$40,000	\$40,000
		Risk Reduction	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500
	Total Technical Support		\$2,437,155	\$2,514,836	\$2,374,836	\$2,202,500	\$2,602,500	\$2,602,500	\$2,202,500	\$2,102,500
TOTAL EXPENSES			\$3,106,125	\$3,431,229	\$3,286,432	\$3,245,094	\$3,683,508	\$3,680,340	\$3,322,264	\$3,220,185
NET INCOME BEFORE TRANSFERS			\$24,545	(\$578,734)	(\$401,616)	(\$325,496)	(\$598,218)	(\$579,044)	(\$104,642)	\$14,089
TRANSFERS TO(+)/FROM(-) RESERVES			\$24,545	(\$578,734)	(\$401,616)	(\$325,496)	(\$598,218)	(\$579,044)	(\$104,642)	\$14,089
RESERVES	Operating Target	\$200,000								
	Legal Target	\$300,000								
	CBC Target	\$500,000								
	Target Reserves	\$1,000,000								
	Total Reserves at End of FY22		\$3,001,806		\$2,600,190	\$2,274,694	\$1,676,476	\$1,097,432	\$992,790	\$1,006,879
	Amt. Above CBC Target End of FY 21 (projected)		\$2,001,806		\$1,600,190	\$1,274,694	\$676,476	\$97,432	(\$7,210)	\$6,879



Bay Area Chemical Consortium (BACC) FY2023 Bid
 Cost Summary for Bay Area Clean Water Agencies as BACC Coordinating Agency
 Chemical Bid Documents Prepared: 11

BACC - Estimated Hourly Costs				
Task	Comments	Hours	Billing rate	Cost
Jennifer Dymont	BACC Coordination	400	90	\$36,000.00
Lorien Fono	BACC Supervision	10	100	\$1,000.00
Total combined hours and costs		410		\$37,000.00

BACC - Estimated Miscellaneous Expenses		
Legal Ad	Publishing 11 Public Notices - Bay Area News Group	\$685.82
Legal Counsel	Legal counsel - review of bid document language	\$5,096.00
Software	PlanetBids.com software	\$4,272.19
Accounting	EBMUD costs for AP \ AR	\$1,115.00
BACC Legal Reserve	Cost to build a BACC Legal Reserve Fund \$150,000 total, \$30,000 per year over 5 yrs	\$30,000.00
Total Misc Expenses		\$41,169.01

Total Hourly Costs & Expenses \$78,169.01

Total combinations for 11 chemical bids 182
 Participation Fee per bid \$429.50
 Billed (\$429.50 x 182) \$78,169.01

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Region \ Agency	Chemical	# of bids	Cost to Agency
Central Valley			
<u>City of Lathrop (Veiola NA)</u>	Sodium Bisulfite	2	\$859.00
	Sodium Hypochlorite 12.5%		
<u>City of Merced</u>		2	\$859.00
	Ferric Chloride		
	Sodium Hypochlorite 12.5%		
<u>City of Modesto</u>			
	Citric Acid	3	\$1,288.50
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		
<u>City of Stockton</u>		5	\$2,147.50
	Aqueous Ammonia		
	Citric Acid		
	Sodium Bisulfite		
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		
<u>City of Turlock</u>		2	\$859.00
	Aluminum Sulfate		
	Sodium Hypochlorite 12.5%		
<u>Oakwood Lake Water District</u>		2	\$859.00
	Ferric Chloride		
	Sodium Hypochlorite 12.5%		
East Bay			
<u>Alameda County Water District</u>		5	\$2,147.50
	Aqueous Ammonia		
	Ferric Chloride		
	Hydrofluosilicic Acid (Fluoride)		
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		
<u>City of Hayward</u>		4	\$1,718.00
	Ammonium Sulfate		
	Ferric Chloride		
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		
<u>City of San Leandro</u>		3	\$1,288.50
	Ferric Chloride		
	Sodium Bisulfite		
	Sodium Hypochlorite 12.5%		
<u>East Bay Dischargers Authority</u>		1	\$429.50
	Sodium Bisulfite		
<u>Oro Loma Sanitary District</u>		3	\$1,288.50
	Ferric Chloride		
	Sodium Bisulfite		
	Sodium Hypochlorite 12.5%		
<u>Union Sanitary District</u>		2	\$859.00
	Ferrous Chloride		
	Sodium Hypochlorite 12.5%		
Marin Sonoma Napa			

<u>Central Marin Sanitation Agency</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>Southern Marin</u>	Sodium Hypochlorite 12.5%	1	\$429.50
<u>Las Gallinas Valley Sanitary District</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>Marin Municipal Water District</u>	Aqueous Ammonia Ferric Chloride Hydrofluosilicic Acid (Fluoride) Sodium Hydroxide Sodium Hypochlorite 12.5%	5	\$2,147.50
<u>Napa Sanitation District</u>	Ferric Chloride Sodium Bisulfite Sodium Hydroxide Sodium Hypochlorite 12.5%	4	\$1,718.00
<u>North Marin Water District</u>	Ferric Chloride Liquid Chlorine Sodium Hydroxide Sodium Hypochlorite 12.5%	4	\$1,718.00
<u>Sanitary District No. 5 of Marin County</u>	Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00
<u>Sausalito Marin City Sanitary District</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
North Bay			
<u>Central Contra Costa Sanitary District</u>	Aluminum Sulfate Sodium Hypochlorite 12.5%	2	\$859.00
<u>City of Antioch</u>	Aluminum Sulfate Ammonium Sulfate Hydrofluosilicic Acid (Fluoride) Sodium Hydroxide Sodium Hypochlorite 12.5%	5	\$2,147.50
<u>City of Brentwood</u>	Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00
<u>City of Martinez</u>	Aluminum Sulfate Ammonium Sulfate Hydrofluosilicic Acid (Fluoride)	5	\$2,147.50

<u>City of Pinole (Pinole/Hercules WPCP)</u>	Sodium Hydroxide Sodium Hypochlorite 12.5%	3	\$1,288.50
	Ferric Chloride		
<u>City of Pittsburg</u>	Sodium Bisulfite Sodium Hypochlorite 12.5%	5	\$2,147.50
	Aluminum Sulfate		
	Ammonium Sulfate		
	Hydrofluosilicic Acid (Fluoride)		
	Liquid Chlorine		
<u>Contra Costa Water District</u>	Sodium Hydroxide	6	\$2,577.00
	Ammonium Sulfate		
	Aqueous Ammonia		
	Hydrofluosilicic Acid (Fluoride)		
	Liquid Chlorine		
	Sodium Hydroxide		
<u>Delta Diablo Sanitation District</u>	Sodium Hypochlorite 12.5%	4	\$1,718.00
	Aluminum Sulfate		
	Ferrous Chloride		
<u>Diablo Water District</u>	Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00
	Hydrofluosilicic Acid (Fluoride)		
<u>Ironhouse Sanitary District</u>	Sodium Hypochlorite 12.5%	3	\$1,288.50
	Aluminum Sulfate		
	Citric Acid		
<u>Mt. View Sanitary District</u>	Sodium Hypochlorite 12.5%	1	\$429.50
	Ferrous Chloride		
<u>Pleasant Hill Recreation & Park District</u>		1	\$429.50
	Sodium Hypochlorite 12.5%		
<u>Rodeo Sanitary District</u>		2	\$859.00
	Sodium Bisulfite		
	Sodium Hypochlorite 12.5%		
<u>Town of Discovery Bay CSD</u>		2	\$859.00
	Aluminum Sulfate		
	Sodium Hypochlorite 12.5%		
<u>West County Wastewater District</u>		2	\$859.00
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		
Peninsula			
<u>City of South San Francisco</u>		3	\$1,288.50
	Ferric Chloride		
	Sodium Bisulfite		
	Sodium Hypochlorite 12.5%		
<u>City of Burlingame</u>		2	\$859.00

<u>Sanitation District</u>	Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>City of Millbrae</u>	Ferrous Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00
<u>City of San Mateo</u>	Ferric Chloride Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>Sewer Authority Mid-Coastside</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
Sacramento			
<u>Carmichael Water District</u>	Sodium Hydroxide Sodium Hypochlorite 12.5%	2	\$859.00
<u>City of Folsom</u>	Sodium Hypochlorite 12.5%	1	\$429.50
<u>City of Roseville</u>	Aluminum Sulfate Aqueous Ammonia Ferric Chloride Hydrofluosilicic Acid (Fluoride) Sodium Hydroxide Sodium Hypochlorite 12.5%	6	\$2,577.00
<u>City of Sacramento</u>	Aluminum Sulfate Hydrofluosilicic Acid (Fluoride) Liquid Chlorine Sodium Bisulfite Sodium Hydroxide Sodium Hypochlorite 12.5%	6	\$2,577.00
<u>City of Yuba City</u>	Aluminum Sulfate Citric Acid Hydrofluosilicic Acid (Fluoride) Liquid Chlorine Sodium Bisulfite Sodium Hypochlorite 12.5%	6	\$2,577.00
<u>El Dorado Irrigation District</u>	Sodium Hydroxide Sodium Hypochlorite 12.5%	2	\$859.00
<u>Nevada Irrigation District</u>	Aluminum Sulfate Sodium Hydroxide	3	\$1,288.50

<u>Rancho Murieta Community Services District</u>	Sodium Hypochlorite 12.5%	2	\$859.00
	Aluminum Sulfate		
<u>Sacramento County Water Agency</u>	Liquid Chlorine	3	\$1,288.50
	Hydrofluosilicic Acid (Fluoride)		
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		
South Bay			
<u>City of Morgan Hill</u>	Sodium Hypochlorite 12.5%	1	\$429.50
<u>City of San Jose</u>	Ferrous Chloride	1	\$429.50
<u>City of Santa Clara</u>		4	\$1,718.00
	Aqueous Ammonia		
	Sodium Bisulfite		
	Sodium Hydroxide		
<u>City of Sunnyvale</u>	Sodium Hypochlorite 12.5%	5	\$2,147.50
	Aluminum Sulfate		
	Ammonium Sulfate		
	Sodium Bisulfite		
	Sodium Hydroxide		
<u>City of Watsonville</u>	Sodium Hypochlorite 12.5%	3	\$1,288.50
	Aluminum Sulfate		
	Ferric Chloride		
	Sodium Hypochlorite 12.5%		
<u>Facility</u>		5	\$2,147.50
	Aluminum Sulfate		
	Aqueous Ammonia		
	Ferric Chloride		
	Sodium Bisulfite		
	Sodium Hypochlorite 12.5%		
Tri Valley			
<u>City of Livermore</u>	Ferric Chloride	2	\$859.00
	Sodium Hypochlorite 12.5%		
<u>Dublin San Ramon Services District</u>		6	\$2,577.00
	Aluminum Sulfate		
	Aqueous Ammonia		
	Citric Acid		
	Ferrous Chloride		
	Hydrofluosilicic Acid (Fluoride)		
<u>Zone 7 Water Agency</u>	Sodium Hypochlorite 12.5%	4	\$1,718.00
	Aluminum Sulfate		
	Aqueous Ammonia		
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		

Total bid participation count:

182

\$78,169.00

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**Laboratory Committee –
Report to BACWA Board**

Laboratory committee meeting on February 14, 2023
Executive Board Meeting Date: March 17, 2023
Committee Chair: Samantha Bialorucki, City of Palo Alto

Committee Request for Board Action: None

Regular meeting: 37 attendees via Zoom representing 24 agencies, the Regional Water Board, and CWEA

Planned Changes to CWEA's Technical Certification Program for Laboratory Analysts

Norah Duffy, CWEA's Director of Certification, presented on planned changes to the [Technical Certification Program for Laboratory Analysts](#). Her slides are available [here](#), and her presentation included the following:

- CWEA is in a cycle of revising all of its certification programs. They are currently revising the Laboratory Analyst certification, including the exams and other qualifications. A new handbook with information about the revised exam will be available in **April 2023**. The last day to register for the exam in its current format is February 28th and the test must be taken by June 30th. After March 1st, new qualifications will be in effect for the test, which will be applicable to tests taken after July 1st.
- This process has involved participation from BACWA member agencies throughout the State. It did not involve any ELAP participation, which is entirely separate.
- Under the revised minimum qualifications, it will still be possible for experienced analysts to skip Grade 1 and obtain a Grade 2 certification. It will no longer be possible to skip Grade 2 or 3 under any circumstances.
- The Technical Certification Program committee has considerable flexibility when it comes to interpreting the requirements for supervisory experience (such as the requirement for Grade 4 analysts to have 1 year of experience supervising others in a related field). Provide plenty of contextual information with your application, and if denied, it is possible to file an appeal.

Agency Reports and Group Discussion

- Samantha Bialorucki (Palo Alto) reported on a recent TNI-2 gap analysis audit conducted by Brad Meadows. Some of the audit findings were that anything posted as an instruction, including a reference guide (such as the IDEXX MPN table) needs to have a reference ID; documents need to be secured in such a way that pages are not able to be removed or replaced without authorization; and sample preservative lot #s need to be traceable to each sample.
- Angela Brodeur (CCWD) reported out on a recent TNI-2 audit by PJLA Accreditation; the findings were mostly related to their quality manual and record-keeping.
- Members discussed requirements related to Heterotrophic Plate Counts (HPC) and the inconsistencies with auditors. One auditor required purchasing a Quebec colony counter for HPC even if the method was used for air blank purposes only and Simplate was their accredited method.
- The group discussed the need for additional guidance or a checklist from ELAP regarding compliance with TNI-2 by January 1, 2024. Feedback from ELAP has been that an official TNI-2 audit is not required before that deadline (see [2/8/23 email from ELAP to Palo Alto](#) for January 31, 2024 expiration date..
- The group discussed that it would be nice to have information compiled about agencies who are going through or have gone through new or renovated laboratory buildings to share positive insight and challenges.
- Members shared memories about former lab committee chair [Noel Enoki](#), who passed away in late 2022.

End of COVID-19 Emergency Declarations

- The governor's declaration of a state of emergency for COVID-19 ends on February 28th, while the federal state of emergency ends on May 11th. Laboratories should resume clean hands sampling for mercury, as the waiver will longer be applicable after February 28th.

BACWA Updates:

- For the NPDES permit amendment to monitoring requirements ([R2-2021-0028](#)), note that beryllium monitoring is no longer waived. It was previously waived under the 2016 Alternate MRP.
- For the [Hg and PCBs Watershed Permit](#), agencies should use the "PCB Template" version of the PET tool version circulated by James Parrish (and re-circulated after the meeting on February 14th)
- Nutrient data from October 2021 to September 2022 are now available in the [Group Annual Report](#)
- Data from Phase 2 of the PFAS Regional Study is not yet available. EPA's [draft Method 1633](#) will be finalized by the end of 2023. A 3rd draft of the method with draft quality control criteria for wastewater is available now.
- The Statewide Toxicity Provisions may be approved by USEPA as early as March 2023. The Regional Water Board plans to slightly modify the requirements for species sensitivity screenings to avoid permit re-openings.
- At this time, the [chlorine residual basin plan amendment](#) is not expected to receive USEPA approval.

TNI Training and Implementation

- The next TNI training session will be hosted February 21st by John Gumpfer of ChemVal, Inc., and will focus on toxicity testing. The March 21st session will be led by Diane Lawver and will cover Module 4. Recordings of previous sessions are available through the [BACWA website](#) (password required).

Next Regular Meeting : Tuesday, April 11, 2023, 10 AM on Zoom

Committee Request for Board Action: None

Regular meeting: 22 attendees via Zoom, representing 15+ member agencies

Statewide Toxicity Provisions

USEPA may approve the Statewide Toxicity Provisions as early as March 2023. The Regional Water Board plans to slightly modify the requirements for species sensitivity screenings to avoid permit re-openings. The most recent version of the standard language for Region 2 NPDES Permits is found in the [Tentative Order for CMSA](#) (Section 5.3.1.2, p. E-11), which will be considered at the Regional Water Board's April 12th meeting.

Tentative Orders

The Regional Water Board will consider individual NPDES permits for [Silicon Valley Clean Water](#) (SVCW, a deep water Bay discharger) and [Sewer Authority Mid-Coastside](#) (Ocean discharger) at its [March 8th Board Meeting](#). Meeting attendees discussed how dilution credits for chronic toxicity are being handled in different permits. For example, the SVCW Tentative Order uses a dilution factor that is specific to chronic toxicity, while the CMSA Tentative Order uses one dilution factor for all constituents (e.g., ammonia and chronic toxicity). SVCW has requested a footnote allowing a reduced sampling frequency for chronic toxicity after 10 tests at the Instream Waste Concentration show a "Pass." Attendees also discussed guidance from the Regional Water Board on the optimal time to schedule monitoring that is required "Once" per permit term. See also [1/5/23 email from James Parrish](#) which states "we would appreciate it if you could complete the "Once" sampling requirements about 12 months prior to the expiration date."

Mercury and PCBs Watershed Permit ([Order R2-2022-0038](#))

The reissued Hg & PCBs Watershed Permit went into effect February 1st. BACWA plans to fund another round of risk reduction activities beginning in FY24. Regional Water Board staff have provided the following guidance regarding permit implementation:

- Dischargers should use the "PCB Template" version of the PET tool version circulated on 1/24 and 2/14.
- Use ½ the MDL for mass load calculations if mercury is ND in the effluent. References: p. A-4 of the EBDA NPDES Permit ([Order R2-2022-0023](#)) or p. 61 of the North Bay Selenium TMDL ([Staff Report](#)).
- If there are multiple sample results available for a given day, refer to Attachment G for averaging procedures.

Climate Change Adaptation

- BCDC is developing Regional Sea Level Rise Adaptation Planning guidelines by May 2024. Emily Corwin from FSSD is participating as the BACWA representative on the Advisory Group.
- Region 3 has started requiring a Climate Change Adaptation Program within individual NPDES permits (e.g., [R2-2022-0010](#) for Montecito Sanitary District).
- Attendees discussed their preferred option for tracking climate change adaptation efforts at individual agencies. The group's preference was to repeat the 2021 survey with similar questions every ~five years.

Nutrients Update

- The [2022 Group Annual Report](#) is now available with nutrient data from Oct. 2021 – Sep. 2022.
- A [Nutrient Fact Sheet](#) is now available on the BACWA website.
- Beginning March 17th, Nutrient Strategy Team meetings will be held in hybrid format following BACWA Executive Board meetings. The February Nutrient Strategy Team meeting included a discussion about how nutrient load reductions might be implemented in the 3rd Watershed Permit. For this effort, BACWA staff are synthesizing information from individual agencies about their existing nutrient load reduction plans.
- An [RFQ for Public Outreach assistance](#) is now available on the BACWA website (Due date: March 10th)

Other Items

- USEPA does not currently plan to approve the [Basin Plan Amendment for chlorine residual](#) because of objections from federal resource agencies about USEPA's national ambient water quality criteria for chlorine. Regional Water Board staff are investigating alternative approaches to establishing chlorine effluent limits.
- Results from Phase 2 of BACWA's regional PFAS study continue to be delayed by the analytical laboratory, but may be available by April 2023.
- Regional Water Board staff recently responded to a BACWA member question about the NPDES Permit Amendment to Monitoring & Reporting Programs ([Order R2-2021-0028](#)) to clarify that beryllium monitoring is required at the priority pollutant monitoring frequency specified in individual NPDES permits. The waiver for pollutants with no water quality criteria from the 2016 Alternate MRP did not carry over.

Next Permits Committee Meeting: April 11th, 2023, 12:30 PM via Zoom

Asset Management Committee
Report to BACWA Board

Committee Meeting on: 02/16/2023
Executive Board Meeting Date:03/17/2023
Committee Chairs: Rebecca Overacre
(EBMUD) and Khae Bohan (CCCSD)

Committee Request for Board Action: None

16 attendees representing 8 member agencies

Round Table Discussion – Top Priorities for Asset Management

Members held a roundtable discussion on asset management in three breakout rooms, providing an opportunity for peer-to-peer information-sharing. Some of the themes from the discussion included:

- Dedicating sufficient resources to CMMS systems is a persistent challenge for agencies, even those that want to make it happen. It requires a significant effort to get information into the CMMS system and maintain it. Several times the group discussion referenced results from the CMMS survey conducted last August ([link](#)). Several attendees are switching or learning new CMMS systems and need assistance with training.
- Integration with other software is a complexity of CMMS systems that requires sufficient tech support to use properly. Most sophisticated CMMS systems have a way of uploading or importing information from other databases (such as Excel, Oracle, storekeeper software, etc.) and a way to import additional information such as PDF files to associate with each asset. For example, one attendee plans to create and import PDF files containing supplemental equipment data.
- For some attendees, the CMMS system itself is not a top priority. Instead, the top priority is conducting detailed condition assessments so that the information can be used for capital planning.
- Breaking larger assets like pump stations into smaller parts for the purposes of asset management is an important task, and may require technical guidance or expertise.

The remainder of the quarterly meetings in 2023 will include speakers on specific topics. A suggested future meeting topic was best practices for integrating preventative maintenance into capital planning.

Next Meeting: May 2023, Date and Time TBD



Executive Director's Report to the Board

February 2023

EXECUTIVE BOARD MEETING AND SUPPORT

- Worked with BACWA staff to plan and manage 2/17 Executive Board meeting
- Conducted the Executive Board meeting agenda review with the BACWA Chair
- Hosted 2/17 Executive Board meeting and distributed draft meeting notes
- Met with individual Board members to discuss regulatory issues
- Continued to track all action items to completion
- Continued to plan Program for BACWA Annual Members meeting, 2/5

COMMITTEES:

- Attended Collection Systems Committee meeting, 2/9
- Planned April Managers Roundtable meeting

REGULATORY:

- Participated in BACWA planning meeting for BAAQMD Workgroup, 2/8
- Participated in BAAQMD/BACWA Workgroup Meeting, 2/9
- Had check-in call with EPA rep, 2/16
- Reviewed regulatory issues matrix
- Attended State Air Toxics testing planning meeting 2/8
- Discussed follow-up workshop for WRAP Action 2.16

NUTRIENTS:

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

- Discussed nutrient strategy with member staff
- Met with Water Board AEO to discuss nutrient load reduction scenarios, 2/13
- Met individually with two agencies to understand nutrient reduction planning
- Participated and prepared summary for NMS planning subcommittee meetings, 2/1, 2/22
- Discussed top-down HAB control at NTT meeting, 2/2
- Attended Modeling advisory group meeting, 2/15-16
- Developed strategy for individual agency meetings on nutrient reductions
- Met with Science team and R2 staff to discuss guidance to Modeling advisory group
- Discussed nutrient issues and engagement with BACWA Board with NMS science manager and BACWA's NMS reviewer
- Submitted Group Annual Report
- Discussed OAH issues with CASA staff, and participated in OAH subgroup meeting 2/13

COMMUNICATIONS

- Finalized and posted communications RFP

FINANCE:

- Reviewed the monthly BACWA financial reports
- Reviewed and approved invoices
- Updated 5-year plan
- Planned and hosted Finance Committee meeting, 2/7
- Updated draft FY24 Budget at direction of Finance Committee

COLLABORATIONS:

- Attended Transforming Shorelines meeting, 2/2
- Attended NACWA meeting in Sonoma and spoke about nutrient issues, 2/14
- Attended TRUW Equity Workshop planning meeting, 2/16, 2/27
- Attended California Water Quality Monitoring Council meeting in Sacramento, 2/23
- Attended CASA RWG meeting, 2/16

ASC (AQUATIC SCIENCE CENTER)

- Reviewed materials sent via email by ASC ED

BABC (BAY AREA BIOSOLIDS COALITION)

- No update

BACC (BAY AREA CHEMICAL CONSORTIUM)

- Discussed administrative and policy issues with administrator
- Reviewed questions from prospective bidders
- Responded to questions about bid process

BACWWE (BAY AREA COALITION FOR WATER/WASTEWATER EDUCATION)

- No update

ADMINISTRATION:

- Planned for and conducted the monthly BACWA staff meeting to prepare for the Board Meeting and to coordinate and prioritize activities.
- Met with RPM to discuss progress on regulatory issues and update regulatory matrix
- Signed off on invoices, reviewed correspondence, prepared for upcoming Board meetings, responded to inquiries on BACWA efforts, oversaw and participated in updating of web page and provided general direction to BACWA staff.
- Worked with RPM in the preparation of the monthly BACWA Bulletin.
- Developed and responded to numerous emails and phone calls as part of the conduct of BACWA business on a day-to-day basis.
- Researched teleconferencing alternatives for hybrid meetings

MISCELLANEOUS MEETINGS/CALLS:

- Worked with BACWA Chair and Committee Chairs on items that arose during the month
- Other miscellaneous calls and inquiries regarding BACWA activities
- Responded to Board members' requests for information



Board Calendar

April 2023 – June 2023 Meetings

DATE

AGENDA ITEMS

April 21, 2023

*Hybrid & In person at SFPUC Hetch
Hetchy*

Approvals & Authorizations:

-

Policy / Strategic Discussion:

- SFEI / PFAS
- Recycled Water & Nature-Based Solutions

Operational:

- Final Annual Meeting Program
- Final Approval FY24 Budget

Annual Meeting

May 5, 2023

David Brower Center, Berkeley

Approvals & Authorizations:

- FY24 Contract Approvals

Policy / Strategic Discussion:

-

Operational:

- Pardee Planning

June 16, 2023

TBD



BACWA ACTION ITEMS

Number	Subject	Task	Responsibility	Deadline	Status
Action Items from Jan 2023 BACWA Executive Board Meeting			resp.	deadline	status
2023.2.40	Annual Meeting Draft Program	BACWA ED to bring an updated draft program on March 17, 2023 and add upgraded AV package to contract.	ED \ AED	3/15/2023	complete
2023.2.41	Draft FY24 Budget	BACWA ED and AED will update the draft FY24 budget and present a second version at the March 17, 2023 meeting.	ED \ AED	3/15/2023	complete
2023.2.42	Sustainable Pest Management Representation	BACWA RPM to develop a draft comment letter on the Sustainable Pest Management Roadmap to share with the Executive Board and CASA.	RPM	3/2/2023	complete
2023.4.43	Modeling Advisory Group update	BACWA ED to share slides from the Regional Water Board staff member's presentation at the February 1st NMS planning subcommittee committee meeting.	ED	3/15/2023	complete
Action Items Remaining from Previous BACWA Executive Board Meetings					
2023.1.38	Debrief from January 17 Joint meeting with R2	BACWA RPM to share WRF report with BACWA community when it is available.	RPM		
2021.10.21	BACWA Communications Policy	BACWA ED will bring a revised draft Communication Policy to the Executive Board for approval at a future meeting.	ED		WIP
2022.10.22	BACWA Reserve Policy	BACWA ED will bring a revised draft Reserve Policy to the Executive Board for approval at a future meeting.	ED		WIP
2022.11.26	SSS WDR - BACWA engagement with State Water Board	BACWA RPM to produce a high-level summary of differences between the current permit and new permit once adopted.	RPM		WIP
2022.3.42	Plain-language review of nutrient science program	BACWA ED to work with SFEI to augment plain-language review to include graphics, simplified text, and a summary of what we have learned so far.	ED		on going

FY23: 35 of 43 Action Items are complete

FY22: 51 of 52 Action items are completed

FY21: 51 of 51 Action items completed

FY20: 70 of 70 Action Items completed

FY19: 110 of 110 action Items completed

FY18: 66 of 66 Action Items completed

FY17: 90 of 90 Action Items completed



Regulatory Program Manager's Report to the Executive Board

February 2023

BACWA BULLETIN: Completed and circulated February Bulletin.

NUTRIENTS: Attended Nutrient Management Strategy meeting and prepared notes; attended meetings to discuss the potential for nutrient load reductions at two individual member agencies; reviewed draft Group Annual Report and provided comments to consultant team.

COMMITTEE SUPPORT:

AIR – Reviewed draft agenda for March committee meeting

Asset Management – Participated in February committee meeting and prepared draft notes.

BABC – Attended February coalition meeting and prepared draft notes.

BAPPG – Participated in monthly steering committee and pesticides committee meetings; participated in February committee meeting, provided BACWA updates, and prepared notes; prepared draft comment letter on Sustainable Pest Management Roadmap; circulated Etofenprox letter to Executive Board for review.

Collection System – Participated in February committee meeting and prepared notes; coordinated with Clean Water Summit Partners and State Water Board staff to plan for March webinar; prepared summary of SSS-WDR for committee members.

Laboratory – Assisted with monthly TNI training session; Participated in February committee meeting and prepared notes; Assisted with preparation of attendance certificates for committee members.

Permits – Participated in February committee meeting and prepared notes; responded to member questions about reporting requirements; reviewed draft 2024 Integrated Report for Clean Water Act section 303(d).

Pretreatment – Assisted with planning for March meeting.

Recycled Water – Provided support for site supervisor training video; began preparing for March meeting.

Executive Board – Prepared regulatory updates for February Executive Board meeting; reviewed meeting notes..

ADMINISTRATION/STAFF MEETING – Participated in Staff Meeting.

BACWA MEETINGS ATTENDED:

BAPPG Steering Committee (2/1)
BAPPG Committee (2/1)
Nutrient Strategy Team (2/3)
BAPPG Pesticides Subcommittee (2/7)
Collection Systems Committee (2/9)
Laboratory Committee (2/14)
Permits Committee (2/14)
Nutrient Discussions with Individual Agencies (2/16, 2/24)
Asset Management Committee (2/16)
Executive Board (2/17)
BAPPG Pesticides Subcommittee (2/21)
Lab Committee TNI Training (2/21, partial)
Bay Area Biosolids Coalition (2/23)

EXTERNAL EVENTS ATTENDED:

CASA Air, Climate and Energy Workgroup (2/23)
BayCAN Winter Regional Meeting (2/15)
CASA Regulatory Workgroup (2/16)
Summit Partners Meeting to discuss SSS-WDR Webinar #2 (2/17)
Webinar on Sustainable Pest Management (2/28)