



B A C W A
BAY AREA
CLEAN WATER
AGENCIES

Executive Board Meeting AGENDA

Friday, February 19, 2016, 9:00 a.m. – 12:30 p.m.
SFPUC, Hetch Hetchy Room, 13th Floor
525 Golden Gate Ave., San Francisco, CA

[illegible]



Executive Board Meeting Minutes

December 18, 2015

ROLL CALL AND INTRODUCTIONS

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

Other Attendees:

<u>Name</u>	<u>Agency/Company</u>
Amanda Roa	Delta Diablo
Amy Chastain	SFPUC
Denise Connors	LWA
Dr. Rebecca Sutton	SFEI
Greg Baatrup	FSSD
Holly Kennedy	HDR
Karin North	Palo Alto
Melody LaBella	CCCS
Nohemy Revilla	SFPUC
Sarah Deslauriers	Carollo
Tom Hall	EOA
Warner Chabot	SFEI
Nirmela Arsem	EBMUD
Robert Wilson	Petaluma
Rhodora Biagtan	DSRSD
Caitlin Sweeney	CCMP
Darcy Luce	CCMP
Jim Graydon	Brown & Caldwell
David Williams	BACWA
Lorien Fono	BACWA
Sherry Hull	BACWA

PUBLIC COMMENT

None.

CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER

None.

CONSENT CALENDAR

1. November 20, 2015 BACWA Executive Board Meeting Minutes
2. October, 2015 Treasurer's Reports

Assistant Executive Director provided an update on the FY16 BACWA Invoicing.

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

APPROVALS & AUTHORIZATIONS

None.

OTHER BUSINESS-POLICY/STRATEGIC

Agenda Item 3 – Discussion: Microplastics. An email from the San Francisco Estuary Institute, along with the RMP manuscript on microplastics and the proposal to develop a Microplastics Strategy through the RMP, were included in the Handout on Pages 15-40. The Chair of the BACWA Lab Committee gave an update on the progress the Committee is making on protocols for better quantification of microplastic loadings from POTWs. A time frame for conducting the study of microplastics in effluent has not yet been determined. First, analytical methods must be developed and it must be determined if previous studies are valid. The Committee may need some consultant assistance at some point and if so will bring a request to the Board for approval of funds. The workgroup also needs help with the literature search, since they don't have access to scientific journals. Warner Chabot, SFEI Executive Director, described SFEI's activities pertaining to microplastics. They have just begun to scratch the surface but understand that microplastics are a source control issue, not a treatment plant issue. They are developing a microplastics strategy to help all the stakeholders coordinate efforts. There are no funds available in the RMP Program in 2016 for additional work on the issue, so the Steering Committee has recommended the use of \$25,000 from Reserves for a workshop convening a panel of experts on the issue in early 2016, The Workshop should include the involvement of the State Water Board and the EPA. Consensus on definitions is needed with a goal of determining a strategy that leads to the next steps. SFEI has begun preliminary outreach to the outdoor recreation industry to address source control of garment plastic fibers. A manuscript on the SFEI microplastics occurrence study has been circulated to BACWA for comment. Comments from BACWA are requested by January 22, 2016. SFEI suggests that there be even more POTW participation moving forward to help ensure that a thoughtful, careful approach on this issue is developed. BACWA's representatives on the RMP steering committee will help determine the future efforts needed to better understand microplastics.

Agenda Item 4 – Discussion: Nutrients

a. Regulatory

- i. HDR Quarterly Update – HDR provided an update of the ongoing Optimization and Upgrade Studies. HDR gave an overview of the status of the studies. The scoping plan, evaluation plan and data collection are complete and they are now performing the analysis of opportunities for optimization and upgrades at individual agencies. The budget is about one-half spent. They have developed a recycled water survey to

better understand the reduction in nutrient loads through consumptive reuse, both currently and projected into the future. They have also developed a CIP survey so that BACWA can understand agencies' plans to implement nutrient removal as we move into negotiations for the next Watershed Permit. The estimated completion date of the recycled water questionnaire is January. HDR estimates that the CIP questionnaire will be distributed in January. Thirty-two of the thirty-seven POTWs are candidates for sidestream nutrient reduction, and sidestream projects are being viewed as falling into the Optimization portion of the Watershed Permit. An open question is if parameters should be provided for determining if sidestream falls into optimization or upgrade. This will be further discussed by the CMG. The next focus will be on individual plants: needs analysis, cost estimates, and summaries. Individual reports will begin to come out at the end of February and be circulated to the individual agencies for Sign-off. A complete draft report is expected by mid-2016, and the final report will be submitted to the Water Board in November 2016. HDR will provide a draft presentation for the BACWA Annual Members' Meeting to the CMG.

- ii. BACWA Approach on Dealing with Nutrients – An introduction to BACWA's Approach to the Nutrient Issue was included in the Handout on Pages 41-42. San Jose provided a short presentation on fish trawl results from earlier in December. They are just beginning to understand the hydrologic and biogeochemical dynamics of the nutrient enriched portion of the Estuary. Biological indicators continue to show full, uninterrupted attainment of beneficial uses. The Board agreed that BACWA's goals should go beyond regulations and focus on nutrient management strategies, and be reflected accordingly in the document. The Executive Director will be looking for input from the Board for developing the internal framework for the approach to nutrients.
 - iii. Key Issue on Approach to Next Permit – The Executive Director noted that it is not too early to get started on discussing the framework for the next watershed permit. Issues to address include funding increases, possible pursuit of a new permit before 2019, determining which agencies are pursuing early actions, what the actions are and when they will be instituted. If early actions are required by the permit, how can BACWA support agencies who pursue them? Who will a multi-benefit approach help, and how will such an approach be funded? Regional Planning would address multi-benefit projects, as has been taking place in the Lower South Bay with SCVWD's participation. What other strategies might be pursued? How important is certainty to BACWA members? The Board agreed that BACWA should begin now to develop key questions.
- b. Technical Work
- i. Documents for Review – A Technical Review on Nutrient Management Strategy Documents was included in the Handout on pages 43-46. The Board agreed that an RFP for a \$35K proposal should be developed with a focus on the assessment

framework. The Bay Delta workshop to identify remaining important science questions has been postponed until June 2016.

c. Governance Structure -

- i. Debrief on Planning Subcommittee Meeting #15 – A Meeting Summary of Planning Subcommittee Meeting #15 was included in the Handout on Pages 47-51. The Executive Director gave an overview of the summary. He noted that there was lots of discussion on program coordination. BACWA supports a Program Coordinator within SFEI on a pilot basis with \$100K budget.
- ii. Debrief on Steering Committee Meeting #7 – A SF Bay Nutrient Management Program document was included in the Handout on pages 52-76 and a link to the NMS Steering Committee Meeting Materials was provided (<http://sfbaynutrients.sfei.org/books/nms-steering-committee-meeting-materials>). Following an overview the Board members complimented the Program document. The Steering Committee is now meeting quarterly.

Agenda **Item 5** – Discussion: Joint Water Board Meeting Debrief – Minutes of the December 21, 2015 Joint Water Board Meeting were included in the Handout on Pages 77-79. The Executive Director highlighted item #3, the Triennial Review, and mentioned that he spoke in favor of removing the shallow discharge prohibition from the Basin Plan.

Agenda **Item 6** – Discussion: Policy on Class of Membership – A proposed BACWA Policy on Class of Membership was included in the Handout on Pages 80-81. The Executive Director pointed out the addition of language addressing non-BACWA members.

OTHER BUSINESS-OPERATIONAL

Agenda **Item 7** – Discussion: Biannual Update on CWCCG – Sarah Deslauriers provided an update on the California Wastewater Climate Change Group. CWCCG is now a part of CASA and is funded by CASA. They are working to identify ways that POTWs can contribute to meeting the Governor's Greenhouse Gas reduction goals, as expressed by the Climate Change Pillars. They will be engaging BACWA on a wastewater treatment process survey that will help inform a CARB study of process emissions. A copy of the presentation can be found on the BACWA website at <http://bacwa.org/document/cwccg-issues-update-12-18-15/>.

Agenda **Item 8** – Discussion: CTR Monitoring Reductions – A link to the Alternate MRP Administrative Draft was provided (<http://bacwa.org/?p=3624>). The order will allow agencies to opt into a decreased monitoring and reporting program in exchange for increased RMP funding. The RMP will include a surcharge on their next invoice that agencies can decide whether or not they will pay. If an agency opts out of paying the RMP fee, the Regional Water Board will check to ensure that monitoring has been done. The BACWA Permits Committee will develop a comment letter on the Tentative Order.

Agenda **Item 9** – Discussion: Annual Meeting Agenda – A final draft of the Agenda for the January 15, 2016 Annual Member’s Meeting was included in the Handout on Pages 82-83.

Agenda **Item 10** – Discussion: Dechlorination Studies - A Total Chlorine Residual Study for Southeast Water Pollution Control Plant from Hazen and Sawyer was provided in the Handout on Pages 84-86. An initial scope has been delivered with more details to follow after their kickoff meeting with SFPUC.

Agenda **Item 11** – Discussion: FY17 Budget Planning – A FY 2017 Proposed Budget Planning/Adoption Timeline and KEY BACWA BUDGET ASSUMPTIONS FOR FY 17 were included in the Handout on Pages 87-90. The Financial Committee will meet in February, 2016.

Agenda **Item 12** – Discussion: Drought/Recycling -

- a. CCMP Comments – A link to the Comprehensive Conservation Management Plan (CCMP) Comments was provided (<http://www.sfestuary.org/ccmprevision/>). Caitlin Sweeney and Darcy Luce from SFEP gave a presentation to the Board. A copy of the presentation can be found on the BACWA website at <http://bacwa.org/document/ccmp-presentation-12-18-15/>. The CCMP is a nonregulatory document that aims to increase water recycling, promote indirect potable reuse (IPR) and work on development of direct potable reuse (DPR) standards. The Board commented that the document needed to recognize the importance of freshwater discharges to the environment, as well as the importance of Reverse Osmosis concentrate management. Additionally, the recycled water committee commented that the IRWM process was not the correct venue for developing recycled water plans, although they could be eventually incorporated into the IRWMP.
- b. Prop 1 Available Funding – An email from SFEI on Prop 1 Available Funding was included in the Handout on Page 91. SFEI proposes to host a gathering to discuss developing a proposal on reverse osmosis management. BACWA will participate with Sunnyvale, San Jose, and the Chairs of the Permits and Recycled Water Committees attending.

Agenda **Item 13** – Discussion: WOT Update – It was noted that BACWA reached out to Bayworks to determine if they were interested in taking over management of the WOT program. They do not have the resources. BACWA will continue to support WOT as a program of special benefit.

Agenda **Item 14** – Discussion: Update on Information Gathering Requests – There have been several requests for information from the Regional Water Board staff and from members that BACWA is working to address. The RPM distributed a matrix showing the status of these information requests. BACWA is in the process of developing a pilot online venue with two goals: 1) a forum for issues not covered in Committees; and 2) a space to share documents of mutual interest.

Agenda **Item 15** – Discussion: ReNUWIt Update – An email from Stanford University on the ReNUWIt IAB Meeting and Agenda, scheduled for January 11-12, 2016, and an Executive Summary on ReNUWIt was included in the Handout on Pages 92-98. The Executive Director will provide the Board with information on what BACWA receives from its participation as a supporter of ReNUWIt to help the Board determine if future support is warranted.

Agenda **Item 16** – Discussion: FWQC Dues – An email on Federal Water Quality Coalition dues for FY16 was included in the Handout on Page 99. This will be discussed by the Financial Committee for the FY17 budget.

REPORTS

Agenda **Item 17** – Committee Report – BACWA Committee Reports were included in the Handout on Pages 100-115.

AIR Committee: a report from the December 10, 2015 Meeting was included in the Handout on Pages 100-101. The Committee expressed a concern for the level of support that will be received as the Committee continues to transition to a full BACWA Committee.

BAPPG: A report from the December 2, 2015 Meeting and a Comment Letter to the US Food & Drug Administration on “Opposition to FDA Recommendations to Flush Certain Medications and Harmonizing Federal Agency Messaging on Safe Medicine Disposal” was included in the Handout on Pages 102-106. It was agreed that BACWA would sign the Comment Letter.

Biosolids Committee: A report from the October 22, 2015 meeting was included in the Handout on 107-109.

Collections Committee: A Survey on Private Sewer Lateral Ordinance for Inspection/Repair was included in the Handout on Pages 110-112.

Asset Management InfoShare Group: No Report was included in the Handout.

Operations and Maintenance InfoShare Group: No Report was included in the Handout.

Lab Committee: A report from the December 9, 2015 meeting was included in the Handout on Page 113.

Permits Committee: Two reports from the December 15, 2015 was included in the Handout on Pages 114-115.

Pretreatment Committee: No Report was included in the Handout.

Recycled Water Committee: No Report was included in the Handout.

Agenda **Item 18** - Discussion: Member Highlights - Executive Board Representatives (Board) were given an opportunity to provide updates from each of the Principal agencies. Non-principal members were also given an opportunity to report out on behalf of their agencies. No actions were taken on the report-outs.

EBDA: Currently doing outfall inspections and maintenance.

EBMUD:

Central Contra Costa:

San Francisco: EPA recently spent three days at SFPUC with a collection systems focus.

San Jose:

Palo Alto:

Delta Diablo:

Petaluma:

Agenda **Item 19** - The **Executive Director's Report**, along with the Board Calendar, BACWA Action Items, and Key Dates for 2016, were included in the Handout on Pages 116-124.

It was noted that all action items from FY15 have been completed and 25 of the 29 action items from FY16 have been completed.

Agenda **Item 20** - The **Regulatory Program Manager (RPM) Report** was included in the Handout on Page 126.

Other BACWA Representative Reports were given an opportunity to provide updates under **agenda Item 21, Other BACWA Representative Reports**. No actions were taken based on the reports.

- a. RMP-TRC: Rod Miller; Laura Pagano – No report.
- b. RMP Steering Committee: Karin North; Jim Ervin – No report.
- c. Summit Partners: Dave Williams – No report.
- d. ASC/SFEI: Laura Pagano; Dave Williams - The ASC/SFEI Joint Board Meeting Agenda DRAFT was included in the Handout on Pages 127-128. Additionally a link was provided to the Board Meeting Materials (<http://bacwa.org/?p=3626>).
- e. Nutrient Governance Steering Committee: Ben Horenstein; Jim Ervin – No report.
- f. SWRCB Nutrient SAG: Dave Williams – No report.
- g. SWRCB Focus Group – Bacterial Objectives: Lorien Fono; Amy Chastain – No report.
- h. SWRCB Focus Group – Mercury Amendments to the State Plan: Tim Potter – No report.
- i. Nutrient Technical Workgroup: Eric Dunlavey – No report.
- j. NACWA Taskforce on Dental Amalgam: Tim Potter – No report.

- k. BAIRWMP: Cheryl Munoz, Linda Hu, Dave Williams – An email from the State Coastal Conservancy was include in the Handout on Pages 129-130.
- l. NACWA Emerging Contaminants: Karin North, Melody LaBella – No report.
- m. CASA Statewide Pesticide Steering Committee: Melody LaBella – No report.
- n. CASA State Legislative Committee: Lori Schectel – Will provide a copy of SB163 to BACWA.

SUGGESTIONS FOR FUTURE AGENDA ITEMS:

ANNOUNCEMENTS:

The BACWA Annual Members' Meeting will be held on **January 15, 2015, 8:30 am – 3:30 pm**, at the **Boy Scout Headquarters, 1001 Davis St., San Leandro, CA.**

The next regular meeting of the Board is scheduled for **February 19, 2016 from 9:00 am – 12:30 pm** at the **SFPUC, Hetch Hetchy Room, 13th Floor, 525 Golden Gate Ave., San Francisco, CA.**

The meeting adjourned at 12:50 pm.



Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

February 16, 2016

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

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As required by section eight of the Joint Powers Agreement establishing the Bay Area Clean Water Agencies (BACWA) and California Government Code Sections 6500 et seq., attached is the BACWA Treasurer's Report for the period covering **July 1, 2015 through November 30, 2015** (five months of Fiscal Year 2015-2016). This report covers expenditures, cash receipts, and cash transfers for the following BACWA funds:

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

Fund Balances as of month end 11/30/15

DESCRIPTION	BEGINNING FUND BALANCE 07/1/15	TOTAL RECEIPTS	TOTAL DISBURSEMENTS	ENDING FUND BALANCE 11/30/15	OUTSTANDING ENCUMBRANCES	UNOBLIGATED FUND BALANCE 11/30/15
BACWA	1,006,959	635,908	228,870	1,413,997	333,795	1,080,202
LEGAL RSRV	300,000	-	-	300,000	-	300,000
CBC	1,243,029	1,246,855	1,039,821	1,450,064	539,887	910,176
AIR	10,171	54,310	12,810	51,671	39,190	12,481
GRAND TOTAL	2,560,159	1,937,074	1,281,501	3,215,732	912,872	2,302,860
WOT	45,463	115,088	71,500	89,051	-	89,051
TOTAL	45,463	115,088	71,500	89,051	-	89,051
PRP84	275,232	840,840	813,412	302,660	8,593	294,067
PRP50	561,537	20,190	442,522	139,205	7,360	131,845
TOTAL	836,769	861,030	1,255,934	441,865	15,953	425,912

BACWA Revenue Report for November 2015

FUND #	DEPARTMENT	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
				DIRECT	INVOICED	JVS	DIRECT	INVOICED	JVS	ACTUAL	
800	BACWA	Principal's Contributions	468,180	-	-	-	-	471,300	-	471,300	(3,120)
800	BACWA	Assoc.& Affiliate Contr	171,639	-	9,363	-	-	156,036	-	156,036	15,603
800	BACWA	Administrative & General	-	924	-	-	924	-	-	924	(924)
800	BACWA	Non-Member Contributions (BAPPG)	3,600	-	-	-	-	3,600	-	3,600	3,600
800	BACWA	Fund Transfers	2,500	-	-	-	-	-	2,438	2,438	62
800	BACWA	Interest Income	1,500	-	-	-	-	-	1,610	1,610	(110)
BACWA TOTAL			647,419	924	9,363	-	924	630,936	4,048	635,908	15,111
802	AIR	Member Contributions	50,000	-	4,000	-	-	48,080	-	48,080	(54,280)
802	AIR	Non-Member Contributions (AIR)	6,200	-	-	-	-	6,200	-	6,200	6,200
802	AIR	Interest Income	-	-	-	-	-	-	30	30	(30)
AIR TOTAL			56,200	-	4,000	-	-	54,280	30	54,310	(48,110)
805	WQA-CBC	Member Contributions	675,000	-	13,730	-	-	658,623	-	658,623	16,377
805	WQA-CBC	Nutrient Surcharge	686,779	-	13,402	-	-	585,972	-	585,972	100,807
805	WQA-CBC	Interest Income	-	-	-	-	-	-	2,260	2,260	(2,260)
WQA CBC TOTAL			1,361,779	-	27,132	-	-	1,244,595	2,260	1,246,855	114,924
GRAND TOTAL			2,065,398	924	40,495	-	924	1,929,811	6,339	1,937,074	81,924
810	WOT	BDO Interest Income	-	-	-	-	-	-	88	88	(88)
810	WOT	BDO Member Contributions	146,000	-	-	-	-	115,000	-	115,000	31,000
WOT TOTAL			146,000	-	-	-	-	115,000	88	115,088	30,912

BACWA Expense Detail Report for November 2015

EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
		ENC	PV	DA	JV	ENC	PV	DA	JV		
LABOR											
AS-Executive Director	183,498	-	-	-	-	122,332	61,166	-	-	183,498	-
AS-Assistant Executive Directo	78,642	(5,702)	5,702	-	-	44,909	33,733	-	-	78,642	-
AS-Regulatory Program Manager	123,360	(11,997)	11,997	-	-	80,851	42,509	-	-	123,360	-
ADMINISTRATION											
AS-EBMUD Administrative Servic	40,000	-	-	-	-	40,000	-	3,576	#####	33,469	6,531
AS-BACWA Admin Expense	7,500	-	-	1,968	-	-	-	2,801	-	2,801	4,699
AS-Insurance	4,500	-	-	-	-	-	-	4,152	-	4,152	348
MEETINGS											
GBS- Meeting Support	16,600	-	-	5,753	-	653	347	5,753	-	6,753	9,847
COMMUNICATION											
CAR-BACWA Website Development/	7,088	(180)	180	720	-	3,879	1,120	1,474	-	6,473	615
LEGAL											
LS-Executive Board Support	2,000	(814)	814	-	-	608	1,392	-	-	2,000	-
LS-Regulatory Support	2,500	-	-	-	-	2,430	70	-	-	2,500	-
COMMITTEES											
BC-AIR	50,000	(12,810)	12,810	-	-	39,190	12,810	-	-	52,000	-
BC-BAPPG	86,000	5,429	3,021	-	-	38,134	16,291	22,500	-	76,925	9,075
BC-Biosolids Committee	3,100	-	-	-	-	-	-	307	-	307	2,793
BC-Collections System	10,000	-	-	600	-	-	-	600	-	600	9,400
BC-InfoShare Groups	1,000	-	-	162	-	-	-	345	-	345	655
BC-Laboratory Committee	6,000	-	-	-	-	-	-	-	-	-	6,000
BC-Permit Committee	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Pretreatment Committee	1,000	-	-	-	-	-	-	841	-	841	159
BC-Water Recycling Committee	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Miscellaneous Committee Sup	30,000	-	-	-	-	-	-	-	-	-	30,000
COLLABORATIVES											
CAS-Arleen Navaret Award	1,000	-	-	-	-	-	-	-	-	-	1,000
CAS-FWQC	5,000	-	-	-	-	-	-	5,000	-	5,000	-
CAS-Stanford ERC	10,000	-	-	-	-	-	-	-	-	-	10,000
CAS-CWCCG	35,000	-	-	-	-	-	-	35,000	-	35,000	-
BACWA TOTAL	705,788	(26,074)	34,524	9,203	-	372,985	169,439	82,348	#####	614,665	93,123
TECH SUPPORT											
WQA-CE Addl Work Under Permit	100,000	-	-	-	-	-	-	15,810	#####	-	100,000
WQA-CE-Technical Support	136,779	-	-	1,500	-	34,609	56,732	1,500	#####	61,079	75,700
WQA-CE CASA Chem of Concern	15,000	-	-	-	-	-	-	-	-	-	15,000
WQA-CE Opt-Upgrade Studies	559,000	(18,595)	18,595	-	-	455,278	143,351	-	-	598,629	(39,629)
WQA-CE Risk Reduction	17,500	-	-	-	-	50,000	-	-	-	50,000	(32,500)
WQA-CE-Nutrient WS Permit Comm	880,000	-	-	-	-	-	-	870,000	-	870,000	10,000
WQA-CE-Program Mgmt	50,000	-	-	-	-	-	-	-	-	-	50,000
TECH SUPPORT (CBC) TOTAL	1,758,279	(18,595)	18,595	1,500	-	539,887	200,083	887,310	#####	1,579,708	178,571
GRAND TOTAL	2,464,067										
WOT											
WOT Administrative Support	2,500	-	-	-	-	-	-	-	-	-	2,500
WOT Contract Expenses	-	-	-	71,500	-	-	-	71,500	-	71,500	(71,500)
	2,500	-	-	71,500	-	-	-	71,500	-	71,500	(69,000)



Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

February 16, 2016

MEMO TO: Bay Area Clean Water Agencies Executive Board
MEMO FROM: D. Scott Klein, Controller, East Bay Municipal Utility District *5X625X*
SUBJECT: Sixth Month Treasurer's Report

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

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

Fund Balances as of month end 12/31/15

DESCRIPTION	BEGINNING FUND BALANCE 07/1/15	TOTAL RECEIPTS	TOTAL DISBURSEMENTS	ENDING FUND BALANCE 12/31/15	OUTSTANDING ENCUMBRANCES	UNOBLIGATED FUND BALANCE 12/31/15
BACWA	1,006,959	638,337	285,103	1,360,193	288,739	1,071,454
LEGAL RSRV	300,000	-	-	300,000	-	300,000
CBC	1,243,029	1,255,208	1,039,821	1,458,417	539,887	918,529
AIR	10,171	54,310	12,810	51,671	39,190	12,481
GRAND TOTAL	2,560,159	1,947,855	1,337,734	3,170,281	867,816	2,302,464
WOT	45,463	115,088	71,500	89,051	-	89,051
TOTAL	45,463	115,088	71,500	89,051	-	89,051
PRP84	275,232	840,840	813,412	302,660	8,593	294,067
PRP50	561,537	20,190	442,522	139,205	7,360	131,845
TOTAL	836,769	861,030	1,255,934	441,865	15,953	425,912

BACWA Revenue Report for December 2015

FUND #	DEPARTMENT	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
				DIRECT	INVOICED	JVS	DIRECT	INVOICED	JVS	ACTUAL	
800	BACWA	Principal's Contributions	468,180	-	-	-	-	471,300	-	471,300	(3,120)
800	BACWA	Assoc.& Affiliate Contr	171,639	-	1,560	-	-	157,596	-	157,596	14,043
800	BACWA	Administrative & General	-	869	-	-	1,793	-	-	1,793	(1,793)
800	BACWA	Non-Member Contributions (BAPPG)	3,600	-	-	-	-	3,600	-	3,600	3,600
800	BACWA	Fund Transfers	2,500	-	-	-	-	-	2,438	2,438	62
800	BACWA	Interest Income	1,500	-	-	-	-	-	1,610	1,610	(110)
BACWA TOTAL			647,419	869	1,560	-	1,793	632,496	4,048	638,337	12,682
802	AIR	Member Contributions	50,000	-	-	-	-	54,280	-	54,280	(54,280)
802	AIR	Non-Member Contributions (AIR)	6,200	-	-	-	-	-	-	-	6,200
802	AIR	Interest Income	-	-	-	-	-	-	30	30	(30)
AIR TOTAL			56,200	-	-	-	-	54,280	30	54,310	(48,110)
805	WQA-CBC	Member Contributions	675,000	-	4,327	-	-	662,950	-	662,950	12,050
805	WQA-CBC	Nutrient Surcharge	686,779	-	4,026	-	-	589,998	-	589,998	96,781
805	WQA-CBC	Interest Income	-	-	-	-	-	-	2,260	2,260	(2,260)
WQA CBC TOTAL			1,361,779	-	8,353	-	-	1,252,948	2,260	1,255,208	106,571
GRAND TOTAL			2,065,398	869	9,913	-	1,793	1,939,724	6,339	1,947,855	71,143
810	WOT	BDO Member Contributions	146,000	-	-	-	-	115,000	-	115,000	31,000
810	WOT	BDO Interest Income	-	-	-	-	-	-	88	88	(88)
WOT TOTAL			146,000	-	-	-	-	115,000	88	115,088	30,912

BACWA Expense Detail Report for December 2015

EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
		ENC	PV	DA	JV	ENC	PV	DA	JV		
LABOR											
AS-Executive Director	183,498	(30,583)	30,583	-	-	91,749	91,749	-	-	183,498	-
AS-Assistant Executive Directo	78,642	(5,505)	5,505	-	-	39,404	39,238	-	-	78,642	-
AS-Regulatory Program Manager	123,360	(6,846)	6,846	-	-	74,005	49,355	-	-	123,360	-
ADMINISTRATION											
AS-EBMUD Administrative Servic	40,000	-	-	-	-	40,000	-	3,576	(10,107)	33,469	6,531
AS-BACWA Admin Expense	7,500	-	-	267	-	-	-	3,068	-	3,068	4,432
AS-Insurance	4,500	-	-	-	-	-	-	4,152	-	4,152	348
MEETINGS											
GBS- Meeting Support	16,600	(119)	119	910	-	533	467	6,663	-	7,663	8,937
COMMUNICATION											
CAR-BACWA Website Development/	7,088	-	-	-	-	3,879	1,120	1,474	-	6,473	615
LEGAL											
LS-Regulatory Support	2,500	-	-	-	-	2,430	70	-	-	2,500	-
LS-Executive Board Support	2,000	-	-	-	-	608	1,392	-	-	2,000	-
COMMITTEES											
AIR-Air Issues&Regulation Grp	50,000	-	-	-	-	39,190	12,810	-	-	52,000	(2,000)
BC-BAPPG	86,000	(2,002)	2,002	-	-	36,132	18,293	22,500	-	76,925	9,075
BC-Biosolids Committee	3,100	-	-	-	-	-	-	307	-	307	2,793
BC-Collections System	10,000	-	-	-	-	-	-	600	-	600	9,400
BC-InfoShare Groups	1,000	-	-	-	-	-	-	345	-	345	655
BC-Laboratory Committee	6,000	-	-	-	-	-	-	-	-	-	6,000
BC-Permit Committee	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Pretreatment Committee	1,000	-	-	-	-	-	-	841	-	841	159
BC-Water Recycling Committee	1,000	-	-	-	-	-	-	-	-	-	1,000
BC-Miscellaneous Committee Sup	30,000	-	-	-	-	-	-	-	-	-	30,000
COLLABORATIVES											
CAS-Arleen Navaret Award	1,000	-	-	-	-	-	-	-	-	-	1,000
CAS-FWQC	5,000	-	-	-	-	-	-	5,000	-	5,000	-
CAS-Stanford ERC	10,000	-	-	10,000	-	-	-	10,000	-	10,000	-
CAS-CWCCG	35,000	-	-	-	-	-	-	35,000	-	35,000	-
BACWA TOTAL	705,788	(45,056)	45,056	11,177	-	327,929	214,495	93,525	(10,107)	625,842	79,946
TECH SUPPORT											
WQA-CE Addl Work Under Permit	100,000	-	-	-	-	-	-	15,810	(15,810)	-	100,000
WQA-CE-Technical Support	136,779	-	-	-	-	34,609	56,732	1,500	(31,762)	61,079	75,700
WQA-CE CASA Chem of Concern	15,000	-	-	-	-	-	-	-	-	-	15,000
WQA-CE Opt-Upgrade Studies	559,000	-	-	-	-	455,278	143,351	-	-	598,629	(39,629)
WQA-CE Risk Reduction	17,500	-	-	-	-	50,000	-	-	-	50,000	(32,500)
WQA-CE-Nutrient WS Permit Comm	880,000	-	-	-	-	-	-	870,000	-	870,000	10,000
WQA-CE-Program Mgmt	50,000	-	-	-	-	-	-	-	-	-	50,000
TECH SUPPORT (CBC) TOTAL	1,758,279	-	-	-	-	539,887	200,083	887,310	(47,572)	1,579,708	178,571
GRAND TOTAL	2,464,067	(45,056)	45,056	11,177	-	867,816	414,578	980,835	(57,679)	2,205,550	258,517
WOT											
Administrative Support	2,500	-	-	-	-	-	-	-	-	-	2,500
BDO Contract Expenses	-	-	-	-	-	-	-	71,500	-	71,500	(71,500)
	2,500	-	-	-	-	-	-	71,500	-	71,500	(69,000)



BACWA EXECUTIVE BOARD AUTHORIZATION REQUEST

AGENDA NO.: 3

FILE NO.: 16-26

MEETING DATE: February 19, 2016

TITLE: BACWA EXECUTIVE BOARD APPROVAL OF AMENDMENT TO FY16 AGREEMENT WITH TDC ENVIRONMENTAL, LLC FOR BACWA/BAPPG PESTICIDE REGULATORY AND TECHNICAL SUPPORT

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

ACTION

Approve an Amendment to increase the Not to Exceed amount of the FY16 Agreement with TDC Environmental, Inc. by \$15,000 to a new Not to Exceed amount of \$24,795.

SUMMARY

In July 2015, the BACWA Chair approved a \$9,975 contract with TDC Environmental, LLC to provide pesticide regulatory and technical support to BACWA/BAPPG which was funded as part of BAPPG's FY16 BACWA-approved Budget and Workplan. In addition to providing the expected services as outlined in the original scope and more, Dr. Kelly Moran of TDC Environmental has identified continued opportunities in FY16 for BACWA to collaborate with the EPA and California Department of Pesticide Regulation (CDPR) to mitigate discharges of pesticides to the sewer. Due to the unpredictable nature of EPA's schedule for processing pesticide registrations, it is challenging to anticipate all the regulatory and pollution prevention work that may result for BACWA/BAPPG throughout the year. As well, the CDPR has been more active in their own evaluations of pesticide contributions to wastewater systems than anticipated.

As a result of new information obtained throughout FY16, the following new tasks/opportunities have been identified for source reduction of pesticides and other toxics to wastewater systems:

- Coordinate and provide scientific support for communications with EPA and CDPR about wastewater pesticides discharges, wastewater pesticides monitoring, and improving wastewater pesticides predictive modeling to support registration decisions.
- Continued support, coordinating conference calls and facilitating communication on the EPA's risk assessments for pyrethroids and fipronil.
- Develop key points for upcoming EPA comment letters on copper and malathion.
- Provide technical information to support BACWA's work with NACWA on Federal Toxic Substances Control Act reform legislation.
- Assist BACWA with the exploration of the use of DTSC's Safer Consumer Products regulatory authority to address products impregnated with copper, silver, and other pesticides that may be discharged to the sewer. (We recently learned these products are not regulated as pesticides.)
- Based on the above tasks, develop an agenda and materials for a monthly BACWA Pesticides Workgroup teleconference meeting to determine appropriate actions and to coordinate actions with NACWA and San Francisco Bay Regional Water Board staff. Provide staff support during the meetings and an action item list after each meeting.

This work will continue to be carried out under the supervision of Melody LaBella (CCCSD) and Karin North (City of Palo Alto).

FISCAL IMPACT

Funds for this project are being sought from BACWA's approved FY16 budget, from the line item for CASA's Pesticide Steering Committee which has an unused balance of \$15,000. The CASA Committee has adequate carry-over funding from last FY to cover the projected expenses for FY16.

ALTERNATIVES

Do not complete this additional work. This alternative is not recommended since these are primarily one-time opportunities to weigh in on the predictive modeling used for pesticide registrations and the bioassessments for pyrethroids and fipronil, which occur once every 15 years as part of the registration review process.

Attachments:

1. Revised Scope of Work
2. TDC Agreement executed July 9, 2015

Approved: _____
Laura Pagano,
Chair, BACWA Executive Board

Date: _____

**Revised Scope of Work
TDC Environmental, LLC
Pesticide Regulatory and Technical Support**

Additional services are identified in italics below (an estimated 85 hours of additional work) shall be compensated on a time and materials basis at \$175 per hour, not to exceed an additional \$15,000.

- Coordinate with BAPPG representatives to clarify the list of highest priorities pesticides for BACWA's attention (tentatively copper, silver, fipronil, and pyrethroids). Provide to the extent possible a schedule of anticipated pesticide regulatory activities on these pesticides.
- Track pesticide-related regulatory activities by EPA and DPR that have significant potential to affect BACWA member agencies. Notify BAPPG of such items as they arise. On the basis of regulatory documents, relevant scientific information, and the regulatory context, make recommendations regarding regulatory participation or other follow-up steps. When so directed, provide key points for comments and review draft comment letters.
- Based on existing lines of communication with pesticide regulators and pesticide manufacturers (which are maintained for other clients), notify BAPPG of important information obtained through these contacts.
- *Coordinate and provide scientific support for communications with EPA and DPR about wastewater pesticides discharges, wastewater pesticides monitoring, and improving wastewater pesticides predictive modeling to support registration decisions.*
- *Provide technical information to support BACWA's work with NACWA on Federal TSCA reform legislation.*
- *Assist BACWA with the exploration of the use of DTSC's Safer Consumer Products regulatory authority to address products impregnated with copper, silver, and other pesticides that may be discharged to the sewer.*
- *Based on the above tasks, develop an agenda and materials for a monthly BACWA Pesticides Workgroup teleconference meeting to determine appropriate actions and to coordinate actions with NACWA and San Francisco Bay Regional Water Board staff. Provide staff support during the meetings and an action item list after each meeting.*
- Provide technical and regulatory advice to support development of BAPPG program(s) or materials to address pesticides, such as anticipated outreach on the pyrethroid permethrin or possible fipronil-related outreach.
- Upon request, provide responses to pesticide-related regulatory or scientific questions.

Contractor

TDC Environmental, LLC
Kelly D. Moran, Ph.D., President
462 E. 28th Ave.
San Mateo CA 94403
650-627-8690
kmoran@tdcenvironmental.com

BAY AREA CLEAN WATER AGENCIES**PURCHASE ORDER**

TO:	Dr. Kelly Moran TDC Environmental, LLC 462 E. 28th Ave. San Mateo CA 94403	kmoran@tdcenvironmental.com (650) 627-8690
FROM:	David Williams, Executive Director BACWA PO Box 24055, MS702 Oakland, CA 94623	dwilliams@bacwa.org Phone: (925) 765-9616 FAX: (510) 287-1351

RE: BACWA Purchase Order for July 1, 2015 to June 30, 2016 with TDC Environmental, LLC to provide regulatory and technical support to BACWA and the BAPPG Committee.

This Purchase Order (PO) covers professional consulting services to be performed by TDC Environmental, LLC in order to provide regulatory and technical support related to BACWA priorities. This work is described in the attached Scope of Work and under the direction of Melody LaBella (Central Contra Costa Sanitary District) and Karin North (City of Palo Alto). The total cost of professional services to be performed by TDC Environmental, LLC is not to exceed \$9,975. This contract will be funded by the BACWA FY2016 Budget, line item BAPPG Committee (BAPPG Budget line items: Pesticides (Permethrin) and Unplanned Issues).

This PO will expire on June 30, 2016. This PO may also be terminated by either party at any time for convenience with 30 day's notice. In the event of termination, BACWA shall pay TDC Environmental, LLC for professional and competent services rendered to the date of termination upon delivery of assigned work products to BACWA.

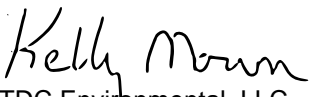
TDC Environmental, LLC shall submit invoices to the BACWA Assistant Executive Director via e-mail. Invoices shall indicate hours associated with each task. EBMUD will pay TDC Environmental, LLC within thirty (30) days of receipt and approval of satisfactory TDC Environmental, LLC invoices.

E-mail: shull@bacwa.org

If this purchase order for professional services is acceptable to you, please sign and mail this document to me for BACWA records and distribution. Please call me if you have any questions or concerns relating to this matter.

Approved:

By _____
Laura Pagano
Chair, BACWA Executive Board


TDC Environmental, LLC
Kelly D. Moran, President
By _____
TDC Environmental, LLC

Date July 9, 2015

Date July 9, 2015

BACWA EIN: 94-3389334

Scope of Work
TDC Environmental, LLC
Pesticide Regulatory and Technical Support

- Coordinate with BAPPG representatives to clarify the list of highest priorities pesticides for BACWA's attention (tentatively copper, silver, fipronil, and pyrethroids). Provide to the extent possible a schedule of anticipated pesticide regulatory activities on these pesticides.
- Track pesticide-related regulatory activities by EPA and DPR that have significant potential to affect BACWA member agencies. Notify BAPPG of such items as they arise. On the basis of regulatory documents, relevant scientific information, and the regulatory context, make recommendations regarding regulatory participation or other follow-up steps. When so directed, provide key points for comments and review draft comment letters.
- Based on existing lines of communication with pesticide regulators and pesticide manufacturers (which are maintained for other clients), notify BAPPG of important information obtained through these contacts.
- Provide technical and regulatory advice to support development of BAPPG program(s) or materials to address pesticides, such as anticipated outreach on the pyrethroid permethrin or possible fipronil-related outreach.
- Upon request, provide responses to pesticide-related regulatory or scientific questions.

All services identified in this Scope of Work shall be compensated on a time and materials basis at \$175 per hour, not to exceed \$9,975.

Contractor

TDC Environmental, LLC
Kelly D. Moran, Ph.D., President
462 E. 28th Ave.
San Mateo CA 94403
650-627-8690
kmoran@tdcenvironmental.com



BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 4

FILE NO.: 16-25 (13,064)

MEETING DATE: January 19, 2016

TITLE: BACWA EXECUTIVE BOARD APPROVAL OF AMENDMENT TO SFEI NUTRIENT STRATEGY SUPPORT AGREEMENT

☐ RECEIPT

☐ DISCUSSION

☐ RESOLUTION

☒ APPROVAL

RECOMMENDED ACTION

Approve an Amendment to the SFEI Nutrient Strategy Support Agreement to extend the expiration date to June 30, 2017.

SUMMARY

The BACWA 2016 fiscal year (FY 2016) ends June 30, 2016. The SF Bay Nutrient Strategy Support Agreements with SFEI (FY2014 File #12,980 for \$345,000 and File #13,064 for \$330,000) were first approved by the Board in FY14. Subsequently there have been two Amendments to each agreement extending the expiration dates, with the latest extension to June 30, 2016. Additionally, the balances on the two agreements were merged into File #13,064 in FY16. As of February 15, 2016 the remaining balance is \$28,409.12. Most of the remaining funds in the contract are earmarked for the technical review, which is Task 7.2 in the Scope of Work. The Nutrient Management Strategy Science Plan calls for technical reviews to be completed during the 2017 fiscal year. This Amendment extends the contract termination date to June 30, 2017. BACWA Contracting Policy allows terms of up to four years, including any optional extensions.

FISCAL IMPACT

This action does not result in any increase to these agreements. The balance remaining on this agreement at the close of the 2016 fiscal year (June 30, 2016) will be carried forward into Fiscal Year 2017.

ALTERNATIVES

No other alternatives were considered as the terms of this amendment are consistent with BACWA contracting policies.

Attachment:

Page 3 of SOW from SFEI Nutrient Strategy Support Agreements

Approved:

Date:

Laura Pagano, Chair
BACWA

FY/CY 2014
Amounts in \$1000s

		BACWA	RMP	IEP	USGS	SFWCA	SWRCB	TOTAL
Task 1 Science prioritization and special studies	Task 1.1 Lower South Bay Synthesis	115						115
	Task 1.2 Suisun Synthesis II	85						85
	Task 1.3 Science Plan	30						30
	Task 1.4 Mechanistic special studies			330*		500*		830
Task 2 Monitoring program development	Task 2.1 Ongoing Bay-wide monitoring		170	500*	700*			1370
	Task 2.2 Moored sensor pilot studies	150	215					365
	Task 2.3 Comm. comp. pilot study	120						120
	Task 2.4 Program Development	75	50				25	150
	Task 2.5 Stormwater monitoring		35					
Task 3 Assessment framework development	Task 3.1 Assessment framework development						200	200
Task 4 Model development and modeling	Task 4.1 Complete tactical plan		45					45
	Task 4.2 Refine hydrodynamic model		100					100
	Task 4.3 Develop phyto/nutrient model		80					80
	Task 4.4 Refine and apply phyto/nutrient model		100					100
	Task 4.5 Refining stormwater estimates		50					50
	Task 4.6 Nutrient Modeling in the Delta			180				180
Task 5 Load estimation	No proposed work in FY2014							
Task 6 Control strategy identification and testing	No proposed work in FY2014							
Task 7 Program coordination and management	Task 7.1 Science oversight and coordination	75	20					95
	Task 7.2 Technical review	25						25
TOTAL		675	865 ¹	1010	700	500	225	~3900

¹ Includes \$175k in 2012/2013 funds applied to RMP modeling tasks

Figure 1 Estimated nutrient expenditures (1000s \$) in CY/FY 2014 in San Francisco Bay across a range of stakeholders and agencies (BACWA fiscal year starts in July, RMP follows the calendar year). Estimates for BACWA and RMP are proposed projects, pending approval. The majority of work being carried out under the columns for BACWA, RMP, and SWRCB are closely aligned with the Nutrient Strategy, as are “Nutrient Modeling in the Delta”, and ~200k in the row “Mechanistic special studies”. The “*” estimates for USGS, IEP, are SFCWA are highly uncertain.



BACWA CHAIR AUTHORIZATION REQUEST

AGENDA NO.: 5

FILE NO.: 16-24

MEETING DATE: February 19, 2016

TITLE: Solano Community College Agreement for Spring 2016 WOT

☐ RECEIPT ☐ DISCUSSION ☐ RESOLUTION ☒ APPROVAL

RECOMMENDED ACTION

Approve execution of a contract with Solano Community College for WOT program (Bay Area Consortium for Water & Wastewater Education), not to exceed \$59,000 for the Spring 2016 semester courses.

SUMMARY

Since June of 2007 BACWA has provided contracting and financial management services for the Water Operator Training program, now called the Bay Area Consortium for Water & Wastewater Education. Participating agencies are billed by BACWA and their contributions fund the Solano Community College courses for the program and a \$2,500 annual BACWA administration fee. This program has grown from its ten original sponsors to 22 agencies from five counties contributing funds for Spring 2016. To date, over 800 students have taken courses offered by this program. In July of 2008, the BACWA Board approved execution of the Fall 2008 agreement with Solano Community College and also granted the Chair the authority to execute future agreements for this program as long as they did not exceed \$79,200 (10% increase over the Fall 2008 contract amount of \$72,000). In November of 2015 the Board approved changes to the agreement that protect BACWA from financial liability in the event that adequate funds are not collected from the program contributors.

FISCAL IMPACT

Funds are available for this agreement in the Water Operator Training (WOT) account. Based on the most recent Treasurer's Report, as of December 31, 2015 the account has a balance of \$89,051; minus the annual administration fee of \$2,500, the remaining unobligated balance for Fiscal Year 2016 is \$86,551.

ALTERNATIVES

This action does not require consideration of alternatives.

Attachments:

1. SOLANO COMMUNITY COLLEGE DISTRICT AGREEMENT FOR EDUCATIONAL SERVICES – Spring 2016

Approved:

Date: February 17, 2016

Laura Pagano, Chair
BACWA

SOLANO COMMUNITY COLLEGE DISTRICT AGREEMENT FOR EDUCATIONAL SERVICES

This agreement is entered into by and between **SOLANO COMMUNITY COLLEGE DISTRICT**, hereinafter referred to as “District” and **Bay Area Clean Water Agencies**, hereinafter referred to as “BACWA.”

WHEREAS, BACWA desires to engage the District to render special educational services,

THEREFORE, THE PARTIES AGREE AS FOLLOWS:

- A. The District will provide Four (4) credit classes, WATER 100, Wastewater Treatment I, WATER 103, Biological Principles of Water and Wastewater, WATER 105, Wastewater Treatment II, and WATER 125, Water Conservation, for up to 30 students per class, for BACWA member organizations and other interested parties, provided member needs are met.
- B. The District will develop, coordinate, deliver, and evaluate the training. Instruction/training will be delivered at various BACWWE sites, to be determined. Classes will begin in January 2016, exact dates to be determined. Additional training can be scheduled as needed with an addendum to this contract.
- C. The District will maintain the BACWWE (Bay Area Consortium for Water & Wastewater Education) website and database and provide marketing and marketing materials for sponsoring agencies.
- D. Solano Community College and BACWWE will recruit, identify and select all trainees who will participate in training.
- E. Subject to availability of funds collected from sponsoring agencies BACWA will compensate the District up to a maximum amount for Spring 2016 (\$59,000) for all services rendered hereunder, as follows: for each 3 or 4 credit hour class fifteen thousand five hundred dollars (\$15,500); for each 2 or 2 ½ credit hour class twelve thousand five hundred dollars (\$12,500). The cost is inclusive of all instruction and teaching/training materials.
- F. Payments by BACWA to the District will be due upon receipt of invoice. An invoice will be generated upon completion of the first month of instruction.

- G. This contract may be terminated by either party upon written notice of not less than ten (10) business days.
- H. It is mutually understood that BACWA and the District shall secure and maintain in full force and effect during the full term of this Agreement, liability insurance in the amounts and written by carriers satisfactory to BACWA and the District respectively.
- I. The District will indemnify, and hold harmless, in any actions of law or equity, BACWA, its officers, employees, agents and elective and appointive boards from all claims, losses, damage, including property damages, personal injury, including death, and liability of every kind, nature and description, directly or indirectly arising from the operations of the District under this Agreement or of any persons directly or indirectly employed by, or acting as agent for the District, except to the extent caused by the sole negligence or willful misconduct of BACWA. This indemnification shall extend to claims, losses, damages, injury and liability for injuries occurring after completion of the services rendered pursuant to this Agreement, as well as during the process of rendering such services. Acceptance of insurance certificates required under this Agreement does not relieve the District from liability under this indemnification and hold harmless clause. This indemnification and hold harmless clause shall apply to all damages and claims for damages of every kind suffered, by reason of any of the District's operations under this Agreement regardless of whether or not such insurance policies shall have been determined to be applicable to any of such damages or claims for damages.
- J. BACWA will indemnify, and hold harmless in any actions of law or equity, the District, its officers, employees, agents and elective and appointive boards from all claims, losses, damage, including property damages, personal injury, including death, and liability of every kind, nature and description, directly or indirectly arising from the operations of BACWA under this Agreement or of any persons directly or indirectly employed by, or acting as agent for the District, except to the extent caused by the sole negligence or willful misconduct of the District. This indemnification shall extend to claims losses, damages, injury and liability for injuries occurring after completion of the services rendered pursuant to this Agreement, as well as during the process of rendering such services. Acceptance of insurance certificates required under this Agreement does not relieve BACWA from liability under this indemnification and hold harmless clause. This indemnification and hold harmless clause shall apply to all damages and claims for damages of every kind suffered, by reason of any of BACWA operations under this Agreement regardless of whether or not such insurance policies shall have been determined to be applicable to any of such damages or claims for damages.
- K. BACWA agrees that it will not discriminate in the selection of any student to receive instruction pursuant to the Agreement because of sex, sexual preference,

race, color, religious creed, national origin, marital status, veteran status, medical condition, age (over 40), pregnancy, disability, and political affiliation. In the event of BACWA's non-compliance with this section, the Agreement may be canceled, terminated, or suspended in whole or in part by the District.

Laura Pagano
BACWA Executive Board Chair
PO Box 24055, MS 59
Oakland, CA 94623

Date _____

Celia Esposito-Noy, Ph.D.
Superintendent-President
Solano Community College District
Fairfield, CA

Date _____

CMG Meeting Notes (8:00 am)

Project: BACWA Nutrient Optimization and Upgrades Studies

Subject: Monthly CMG Call

Date: Friday, January 08, 2016

Location: Phone #: 866-583-7984; code: 355-0210-881#

<p>Attendees:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Greg Baatrup <input type="checkbox"/> Vince De Lange <input checked="" type="checkbox"/> Joanna De Sa <input checked="" type="checkbox"/> Teresa Herrera <input checked="" type="checkbox"/> Amanda Roa <input checked="" type="checkbox"/> Bhavani Yerrapotu <input checked="" type="checkbox"/> Jean-Marc Petit <input checked="" type="checkbox"/> Stephanie Harrison <input checked="" type="checkbox"/> Jason Warner 	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Mike Conner <input checked="" type="checkbox"/> Yuyun, Shang <input checked="" type="checkbox"/> JB Neethling <input checked="" type="checkbox"/> Holly Kennedy <input checked="" type="checkbox"/> Mike Falk <input type="checkbox"/> Rion Merlo <input checked="" type="checkbox"/> Lorien Fono <input checked="" type="checkbox"/> David R. Williams <input type="checkbox"/> Jim Graydon
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I. Review Agenda

II. Annual Meeting Presentation

A. Draft Presentation Review

1. The group reviewed the draft presentation and agreed upon several modifications and additions that would be incorporated in advance of the Annual meeting on January 15.

III. Optimization / Upgrades Analysis Status

A. No Net Loading Baseline

1. Review Compilation of Projections
 - a) Information from the California Department of Finance and several agency master plans was reviewed and discussed.
 - b) The group agreed that for the purposes of the No Net Loading analysis, if an agency has a master plan with flow and load projections, those would be used to project the flows and loads for 2025. In the absence of a master plan, the team will use a 10 percent increase in both flow and load for the 2025 planning period.
 - c) EBMUD will provide separate projections to account for food waste loading.
2. Revisit Projection Assumptions for Optimization Analysis.
 - a) The group agreed that there would be no change in the flow and load projection assumptions for the Optimization Analysis. The assumptions presented in the Scoping and Evaluation Plan will be used:

- a. If an agency has a master plan with flow and load projections, those will be used.
- b. In the absence of a master plan, the team will use a 0 percent increase in flows and a 15 percent increase in loads.

B. Recycled Water and CIP Data Request

- 1. Lorian received comments from the Recycled Water Committee, which is not comfortable asking for hard numbers on the level of confidence. As a result, it was agreed that request would be replaced with request for a summary of project status (e.g., planning level, in an adopted CIP, etc.).
- 2. The deadline to respond to the recycled water data request will be extended to early April to allow agencies to accommodate / coordinate their schedules for their Urban Water Management Plans.
- 3. DWR is also putting together a recycled water survey and Lorian is coordinating with them to understand their data request versus what is being requested in this request.

C. Criteria for Optimization vs. Upgrade

- 1. Dave reported that the current anticipated process is that HDR will work with the respective POTWs to agree on their optimization strategies. There is an interest in having the CMG provide some oversight to make sure that optimization strategies are rationale and not eliminated without some review.
- 2. Suggested approach: HDR will send a table to the CMG summarizing the optimization strategies for each POTW and with respective costs. HDR will then update the table (or flag changes) after the POTW reviews and provides comments. The CMG will then review the changes. The goal is to make sure the recommendations and the overall report are credible. At the end, HDR will develop some general parameters to provide guidelines on what falls into the optimization vs. upgrades categories.

IV. Group Annual Report

A. GAR Data Request

- 1. HDR will submit the workbook in the next week or so for review prior to sending to the POTWs for their use.

V. Topics on Hold

VI. Upcoming

- A. BACWA Annual Meeting, January 15th
- B. Next Board Meeting Briefing, March?

NUTRIENT STRATEGY TEAM MEETING

Draft Agenda

1ST Quarter 2016

1. Introductions and Purpose of Meeting
2. Review of 2014 Watershed Permit Requirements and Status
 - a. Monitoring and modeling
 - b. Reporting
 - c. Optimization and upgrade report
 - d. Funding the Science
3. Summary of On-going Technical Activities
 - a. SFEI reports
 - b. Assessment framework
4. Summary of Governance Activities
 - a. Steering Committee
 - b. Planning Subcommittee
 - c. Funding
 - d. Program Coordinator Pilot effort
5. Schedule for Adoption of Next Watershed Permit
6. Current Understanding of Requirements Envisioned in Next WS Permit
 - a. Monitoring and modeling
 - b. Reporting
 - c. Funding the Science
 - d. No Net Loading Increase (NNLI)
7. Discussion of Potential Requirements and Alternatives
8. Discussion of Next Steps
9. Schedule for Near Term Activities, Action Items and Meetings



AGENDA

**San Francisco Bay Stakeholder Advisory Group
SF Bay Regional Nutrient Management
February 9, 2016
10:00—2:00 PM**

**Location: San Francisco Bay Regional Water Quality Control Board,
Meeting Room 10, Second Floor, 1515 Clay Street, Oakland, CA 94612**

Meeting Goals:

- 1) Present and discuss approach for using Chlorophyll-a endpoints to assess nutrient impacts on the Bay
- 2) Provide stakeholders an opportunity to ask questions and discuss report, “Scientific Basis to Assess the Effects of Nutrients on SF Bay Beneficial Uses”
- 3) Provide a discussion regarding Next Steps based on the recommendations in the report

- **10:00** **Welcome, Water Board Perspective (Naomi Feger, Water Board)**
- **10:15** **Overview of Nutrients in San Francisco Bay (Jim Cloern, USGS)**
-
- **10:30** **Analyses of Chlorophyll-a thresholds and relationship to DO and HABs in San Francisco Bay (Martha Sutula, SCCWRP)**
- **11:00** **Four Talks – 15 minutes each with 5 minutes for quick questions**
 Translating Existing Science into an Assessment Framework (Martha Sutula)
 What if we apply the Chlorophyll-a assessment thresholds to assess current condition? (Dave Senn, SFEI)
 Report Recommendations – Next Steps (Naomi Feger)
 Implications for NMS implementation: monitoring, modelling and the Science Plan (Dave Senn)
- **12:20** **Quick break to get lunch**
- **12:45** **Working lunch – discussion**
- **1:45** **Meeting Wrap-up**

Review of NMS Technical Documents

Bay Area Clean Water Agencies (BACWA)
Request for Proposal

2/26/2016

Table of Contents

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Attachments:

A – Nutrient Management Strategy

B – Charter

C – BACWA's Approach to the Nutrient Issue

D – Assessment Framework

E – Sample Agreement

Request for Proposals

Provide Review of Technical Documents Produced as Part of the Bay Area Nutrient Management Strategy (NMS)

Introduction

Background: San Francisco Bay is recognized as a nutrient-enriched estuary. Nonetheless, dissolved oxygen concentrations found in the Bay's subtidal habitats are much higher and phytoplankton biomass and productivity are substantially lower than would be expected in an estuary with such high nutrient enrichment, implying that eutrophication is potentially controlled by processes other than straightforward nutrient-limitation of primary production. There is a body of evidence that suggests the historic resilience of San Francisco Bay to the harmful effects of nutrient enrichment is weakening. The indications of decreased Bay resilience have come to the fore at a time when the availability of resources to continue assessing the Bay's condition is uncertain. Notwithstanding historic contributions to water quality sampling and monitoring by various independent organizations, there was a need for a locally-supported, multi-interest, long-term science strategy and an associated implementation program to provide information that is needed to support nutrient-related management decisions in the Bay. This program is known as the *San Francisco Bay Nutrient Management Strategy (NMS)*. The NMS (see Attachment A) will define and guide the science, implementation, information-sharing, and public outreach approach. As such, the NMS and the work of stakeholders supporting the NMS will inform policies specifically decided by the San Francisco Regional Water Quality Control Board (Water Board).

NMS Governance and Implementation: It has been recognized that the implementation of the NMS will require a variety of stakeholders including state and federal regulators, wastewater dischargers, NGOs, resource agencies, industry, and water suppliers. Given this array of stakeholders it was decided that a governance structure was needed to help ensure that all issues and perspectives were being considered as the scientific studies needed to implement the NMS were being pursued. A *Charter* was developed that established an organizational structure for implementing the NMS and set forth the key entities that would be involved in the governance and implementation of the NMS and how they would function (see attachment B). The organizational structure of the NMS consists of the following key groups as shown on the organization chart in the *Charter*.

- Steering Committee
- Stakeholder Advisory Group
- Science Manager and Core Science Team
- Nutrient Technical Workgroup

- Peer Reviewers
- Public
- Other Regional Groups

BACWA is actively engaged in supporting and funding the NMS for San Francisco Bay. BACWA members also participate in key governance activities of the NMS including the Steering Committee, the Nutrient Technical Workgroup and the Stakeholder Advisory Group.

BACWA's position on the nutrient issue is embedded in a document entitled *BACWA's Approach to the Nutrient Issue* (see attachment C) which focuses on the need to protect San Francisco by relying on robust scientific investigations and prudent expenditures of public resources.

Scientific Studies and Technical Documents: Since 2013 BACWA has been funding scientific studies as part of the NMS. The studies are being conducted by the San Francisco Estuary Institute (SFEI). BACWA voluntarily funded the initial studies in order to better understand the impacts of nutrients on the Bay. With the adoption of the Charter for governance, SFEI has been designated as the official scientific body to conduct the studies for the NMS. The 5 Year Nutrient Watershed Permit was adopted in 2014 and requires BACWA to contribute \$880k per year to SFEI to fund scientific studies.

As part of the NMS, SFEI has produced a draft Science Plan which sets forth a 10 year effort to answer key scientific questions regarding the impacts of nutrients on the beneficial uses of the Bay. SFEI provides a Science Manager and staff as well as contracts with other scientists to conduct the needed studies identified in the Science Plan. Although BACWA has several volunteers who are engaged in monitoring the technical work being undertaken by the NMS science team, all of the BACWA volunteers have their regular workload as employees at their agency or city and don't have the time to immerse themselves in thoroughly reviewing all of the technical documents that have been produced or are in production. For this reason BACWA is seeking to retain an outside expert to review key documents produced by the NMS science program from the perspective of a POTW. The independent review would help inform the BACWA membership on key aspects of the scientific reports as they relate to a public utility, pointing out areas of study or conclusions that have the potential to impact future management or policy decisions and assessing the scientific underpinnings of those conclusions and recommendations.

Current Status

There are several documents that have been or are in the process of being developed as part of the Science Plan. At this time these reports consist of the following:

The Science Plan
The LSB and SB Syntheses
The Conceptual Model
Nutrient Science Program Update
Nutrient Modeling Approach

All of these can be found on the SFEI web site (www.sfei.org). All the reports were prepared by or under the direction and oversight of the science team at SFEI. In addition a report entitled *Scientific Basis to Assess the Effects of Nutrients on San Francisco Bay Beneficial Uses (Assessment Framework)* was prepared by the Southern California Coastal Water Research Project (SCCWRP) under contract to the Water Board (see attachment D). The *Assessment Framework* was just recently completed and presented to the Stakeholder Advisory Group (SAG) at their February 9, 2016 meeting. The *Assessment Framework* presents data showing relationships between chlorophyll-a and dissolved oxygen (DO) and harmful algal blooms (HABs). The intent is to utilize this document to assess possible impairment in the Bay due to HABs and/or low DO and link the occurrence of HABs and DO to chl-a which can then be linked to nutrient loadings. The results can then be used in the monitoring and modeling program as part of the SFEI Science Plan to determine if nutrients loads from POTWs are contributing to the impairment and, if so, what management actions could be taken to achieved desired results.

Project Description

The Project for which proposals are being requested consists of providing critical review of key technical documents being produce as part of the NMS and the Science Plan. The consultant will be asked to review technical documents from a POTW perspective. Using the *BACWA's Approach to the Nutrient Issue (BACWA's Goal)* as a guide to understanding BACWA's position, the consultant will be asked to provide their findings as to the scientific soundness of the assumptions, findings, conclusion and recommendations of the documents reviewed. BACWA is specifically interested in the assessment of the scientific rigor that went into preparing the documents, whether or not the documents cover the key issues on nutrients from a POTW perspective, the implications of the assumptions made in preparing the scientific studies, the potential for the documents to provide a basis from

which management or policy decisions may ultimately be made, other areas of study that may be warranted in order to answer key question on the nutrient issue, and identifying any concerns that POTW may have with the conclusions being drawn from the various studies.

A brief summary of findings from the technical review would be prepared and a briefing schedule with the BACWA Board. Comment letters on the technical soundness and consideration for alternative approaches may also be requested from the consultant as well as attendance at meetings with regulators.

BACWA intends to enter into an omnibus agreement whereby BACWA would retain the consultant and call upon the consultant's technical expertise on an as-needed basis.

Request for Proposals

BACWA seeks the services of an individual(s), a firm, or team (Consultant) to provide as-needed technical review on documents produced as part of the NMS as well as consultations on strategy to ensure that the BACWA *Goal* for nutrients is achieved. This Request for Proposal (RFP) includes the information needed for proposal preparation and includes various attachments associated with proposal preparation and contractual requirements, including a sample agreement. The Scope of Work and all attachments included are intended to provide the needed background and documentation for the consultant to prepare a brief letter proposal to BACWA.

Scope of Work

The first document for which technical review is requested is the *Assessment Framework*.

The outside expert will not be responsible for assessing the competence of the scientific work or any modeling efforts or re-doing any work completed but rather reviewing the existing documents from a POTW perspective and raising issues and questions for BACWA consideration. The key elements of the scope of work for the outside expert for the *Assessment Framework* review include the following:

1. Review key assumptions, critical referenced reports, conclusions and recommendations and report on the strengths and weaknesses of the document.
2. Identify major issues, data gaps, and important questions.
3. Identify conclusions and/or recommendations that cross over from being pure scientific presentations to making policy recommendations.
4. Identify where additional explanations from the authors is needed.

5. Suggest where additional studies or investigations are warranted.
6. Discuss policy and permit ramifications.
7. Provide BACWA guidance/advice on next steps given the desire to continue with the NMS collaborative process yet not accept premature or incomplete conclusions that could ultimately lead to management actions or regulations not rooted in sound science.

The work would include four biweekly conference calls with BACWA and one in-person meeting in the Bay Area with BACWA. A Final brief Report with key findings, conclusions and recommendations should be prepared. An estimate for additional in-person meetings should be provided on a per meeting basis.

Qualifications

The following qualifications would be desirable for the outside expert:

1. Technical knowledge and expertise in dealing with nutrient issues in water bodies particularly estuaries.
2. Experience with watershed permits, trading and multi-jurisdictional permits
3. Experience with assessment of nutrient impacts
4. Experience with nutrient permits and alternate approaches

Project Schedule

The Scope of Services shall be completed during the first six months of 2016. Major milestones are provided below

Major Milestone	Date
Proposal due	March 18, 2016
Proposal review and telephone interviews	Week of March 28th 2016
Selection of Consultant(s)	April 1, 2016
Notice to Proceed	April 4, 2016
Final Report submitted	June 3, 2016

Organization and Content of the Proposal

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

Suggested proposal outline.

Section	Contents
Cover Letter	Transmittal
1	Identification of Proposer
2	Project Team and Qualifications
3	Project Approach
4	Project Experience
5	Project Schedule
6	Fee Estimate
7	Exceptions to Contract Terms and Conditions
8	Resumes of Key Staff

Level of Effort

The desired level of effort for the above described Scope of Work would cost roughly \$30-\$40k. The contract cost for review of the *Assessment Framework* should be presented as a lump sum amount based on the above Scope of Work with an estimate provided for additional in-person meetings, if needed, as well as hourly rates for key personnel should additional consultations, comment letters, etc., be needed.

It is envisioned that an omnibus contract in the amount of \$100k would be executed recognizing the need for follow-on as-needed services for review of other documents and/or consultation on the NMS. The BACWA standard consulting agreement will be used for this work (see attachment E)

Proposal Evaluation Criteria

Criteria	Points
Project approach – How the Consultant intends to provide the needed services	15
Expertise of proposed individual or team in similar endeavors	50
Principal in Charge/Project Manager – Availability and responsiveness	20
Ability to provide additional resources if needed	5
Level of Effort – cost effectiveness of individual or team	10
Total	100

ATTACHMENT A

San Francisco Bay Nutrient Management Strategy

(LINK)

ATTACHMENT B

CHARTER

(LINK)

ATTACHMENT C

BACWA's Approach to the Nutrient Issue

Introduction

In the course of discussions on nutrients over the last few years many approaches on how to deal with the nutrient issue have been discussed but have not been adopted as the official BACWA Position. The BACWA coalition dealing with nutrients depends on the great majority of POTW members understanding the direction the organization is heading and what strategies are being followed to get to the desired outcomes.

The purpose of this paper is to confirm the BACWA goal on nutrients and then focus on strategies that will help achieve that goal. With a goal statement and strategies in place, specific tactics can be identified which will be pursued in support of the strategies recognizing that both strategies and tactics may need to adapt to changing circumstances as time passes. This paper will help to increase clarity on the nutrient issue for all BACWA members which should provide for a stronger coalition

BACWA Goal

By definition a goal is a high level statement of something to be achieved. As a coalition of public agencies charged with protecting public health and the environment, BACWA takes its role as stewards of the Bay very seriously. BACWA is committed to working collaboratively with the Water Board to clearly understand the impacts on nutrient loadings on the Bay and stands ready to do whatever is necessary to ensure protection of the beneficial uses of the Bay. With these basic concepts supported by the membership, the BACWA Nutrient goal statement is as follows:

Nutrient management strategies should be protective of the environment, ensuring that all beneficial uses of the Bay are achieved; be based on robust scientific investigations; and makes effective use of the public's resources in achieving this goal.

BACWA Strategies

Several strategic concepts have been discussed within the BACWA coalition. From those discussions the following strategies have emerged:

1. **Sound Science:** *Support the concept that regulation should be based on sound science and help fund the science.*
2. **Beneficial Uses:** *Demonstrate that beneficial uses are being protected.*

3. **Highest Priorities:** Work to prioritize all environmental needs such that the highest priorities with the largest positive impact can be accomplished first.

4. **Multiple Benefits:** Emphasize that on-going and increasing efforts to recycle wastewater and enhance wetlands can have multiple benefits including providing new water supplies, protecting and increasing habitat, protection from sea level rise, and reduction in nutrient loadings; while recognizing that these efforts need time to be developed and converge on the optimal point of maximizing cost-benefits of expending public resources.

ATTACHMENT D

Assessment Framework

(LINK)

ATTACHMENT E

Standard Agreement

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

(LINK)

Planning Subcommittee (PS) Meeting No. 16

January 7, 2016

9:00 am – noon

Water Board Offices

Meeting Summary

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

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

1. **Agenda Modifications:** No modifications to the agenda were suggested other than to monitor the time to ensure enough time to discuss the Program Coordinator item.
2. **Review Outstanding Action items:** The Action Items from the last Steering Committee (SC) meeting and the last Planning subcommittee (PS) were reviewed. All items were either completed or are on the current agenda for discussion.
3. **Science Program update**
 - i. **Staffing** – The Science Manager (SM) indicated that staff were doing a good job but, as has happened in the past, situations arise where key staff departs for a variety of reasons. The subcommittee agreed that if any staff leaves it would be important to replace them as soon as possible.
 - ii. **Other** – All agreed that Steering Committee (SC) Meeting #7 was successful but that attendance had fallen off. A suggestion was made to perhaps ask folks their interest in attending SC meetings. **Action Item: Add “Engagement of SC Members” to the next SC agenda.**
4. **Priority Updates**
 - i. **Report-Outs**
 1. **Feedback received on USGS Letter Agreement on Use of the retrofitted vessel** – A draft letter from USGS was provided by the SM (see attached). A discussion of the letter ensued. It was noted that since public funds were being used to retrofit the vessel, that it needs to be documented that the funds are being

well spent. As suggestion was made to have the letter co-signed by higher level USGS managers or at least copied on the letter. Also to add more information in the letter that is specific as to the use of the vessel for NMS purposes. Since USGS is dependent on federal funding, the language needs to recognize that fact. The best way to modify the letter would be to simply add a new paragraph addressing NMS support. It is important to not take too long in getting the value from the \$200k funding contribution for the vessel. Added language to the letter should push for recurring periodic updates on the USGS plans for future year's sampling efforts. **Action Item: The SM will modify the USGA draft letter using track changes, then circulate the modified letter to the PS. Once reviewed by the PS, the letter should be sent to USGS for their review and finally to the SC.**

2. **Follow-up on SC request to provide online links for projects which provide more detail** – The SM indicated that he would be happy to provide the links noting that the web site tracking features basically already has this capability. **Action Item: the SM will provide the links to projects in the future packets for the SC meetings.**
3. **Update on the R5 Ammonia Workshop** – It was noted that the funds are not going away if the Workshop is not conducted in the near future. It was also stated that it was doubtful that the scientists would resolve the ammonium paradox issue on their own and that the Workshop presented a good vehicle for addressing the Bay Area issues. Some stakeholders support addressing the ammonium paradox at the workshop and some are not that enthused about spending time on the issue. In addition the Workshop scope has expanded beyond the ammonium paradox as was originally intended.

The Water Board (WB) indicated that within the Bay community that they are not looking at the Suisun Bay as a red flag. Recent research has raised questions with the previous work. BayKeeper also indicated that the ammonium paradox is not a big issue with them. The SM stated that the main intent of the original scope of the Workshop was to inform the Science Plan (SP) and without input from the Workshop the science team could end up with not addressing the right questions.

It was suggested that maybe the ammonium paradox issue is not the main issue at this time and it would be okay to let Region 5 pursue their questions and Region 2 pursue their own perhaps on different time frames. It was agreed that at this time it is okay to monitor activities on the Workshop but to let things play out.

The SM stated that Regional San has an RFP out to develop a plan for assessing the impact on the Delta of the new treatment systems being constructed. A question was raised as to if this work is going to be within the “one tent” concept of the NMS? A series of action items came out of the discussion as follows:
Action Item: Discuss current situation with CCCSD (BH); Add the Workshop as a standing agenda item on the NMS SC Calendar (DW); Ask regional San to make a presentation on their RFP at the next SC meeting (BH); Continue coordinating with the consultant assisting Regional San (DS).

4. **Progress report on development of a monitoring program proposal for SC consideration** – The SM reported that the Monitoring Program is about 90% completed. The Plan should be finalized by April. There is a 50 page document available now that the SM is condensing down to around 5 pages. This document will be available towards the end of January 2016. The \$50k approved by the SC for progress on the Monitoring Plan will be used when experts are brought in to assist with the development of the Plan.
5. **Status update on the Suisun Synthesis** – The SM has been working on resolving the data glitch along with the help of others on his team. The new target completion date is the end of January.
6. **Final version of the Use of Technical Assistance for the NMS.** – This document has been finalized. The SM will provide a copy for the records. ***Action Item: DS to provide DW a copy of the final document.***
7. **Update on setting the next SAG meeting and distribution of the Assessment Framework Report and setting date for the AF Workshop** – The next SAG meeting will be held on

February 9, 2016. It was noted that the Assessment Framework (AF) report needs to be distributed in advance of the meeting. In order to plan for the meeting, a pre-meeting was suggested among the Water Board (WB), SCCWRP and SFEI. The WB is still reviewing the application portion of the report.

ii. Current Issues

1. **SC request for recommendations on projects to pursue based on the top five dot items. Explanation of what will be accomplished with the core monitoring and modeling programs.** – How to use the results of this preliminary exercise still needs some thought. The SM plans on providing his recommendations on the projects to pursue taking into consideration the results of the dot exercise.
2. **Program Coordinator Progress and Next Steps** – The SM gave a brief overview of his more detailed proposal on providing Program Coordinator (PC) services (see attached). He reviewed the organization chart and the function of each box on the chart. He also stated there are six major work tasks for the PC as follows: 1. Meeting Support; 2. Financial Management; 3. Communication and Coordination; 4. Fund Raising; 5. Peer Review and Support; and 6. Alternative Analysis.

It was noted that the BACWA Board had reviewed the initial proposal and was supportive of continuing their commitment of funding a one year pilot program.

One of the first efforts is to develop the FY 17 work plan for SC review at their March meeting. The SM will need to spend roughly \$10k on this effort. This was approved by the PS with the funds coming from the Facilitation line item in the budget.

On Task 1 there was a discussion of the continuing role of DW in the effort. The SM indicated that the idea was to gradually incorporate DW's role into the PC effort. It was agreed that there was benefit to services provided by DW and perhaps a hybrid model could be developed wherein DW continued to provide some services. On Facilitation, the sense was that heavy duty facilitation was probably not needed and thus Option 2, where facilitation is provided on an as needed basis, was preferred. As far as meeting facilitation, options such as SFEI

providing a meeting facilitator or rotating the responsibility among the SC members could be pursued.

On Communication and Coordination it was believed that between the SM and the SFEI staff involved in the NMS that this effort should not be a problem and that it would mainly consists of informing and confirming efforts and issues. One key issue for discussion at the next PS meeting is who will facilitate the SC meeting in March. An agenda for that meeting also needs to be prepared that will help to engage the SC members.

Funding will be a major part of the PC effort. It was pointed out that the SM needs to be quite specific about the funding goals he proposes since the continuation of the PC effort beyond the first pilot year of the program will largely be evaluated based on meeting the funding goals. Firm goals are needed. The funding need will continue for years since even after any regulatory actions, there will be a need for on-going monitoring, surveillance, and modelling.

On Peer Review and Support it was noted that this should be managed by someone outside of the process. One possibility is to have this effort subcontracted to an outside entity to manage the peer review process.

The SM stated that he is proposing a three phase approach to Task 6 Alternative Analysis. Under Phase 1 he would develop a work plan analogous to the multi-year Science Plan. In Phase 2 white papers on various topics would be developed and in Phase 3 cost-benefit analyses and policy alternatives would be presented. It was noted that we don't need a team of experts to develop alternatives but we do need to be cognizant of lessons learned in other regions of the country. South of the Bay Bridge is somewhat of a unique situation that may not lend itself to traditional trading systems found elsewhere. Besides trading there are also alternatives such as Low Impact Development (LID) and green infrastructure as means of addressing nutrient loading issues. Having panels of experts can be advantageous as was the case when BACWA was dealing with the dioxin issue. Such outside views lend credibility to the process.

Following the discussion on the SM's proposal a brief discussion ensued as to BayKeeper's role in the overall process and the value of ensuring that it does continue.

A brief discussion then followed on funding the pilot. BACWA stated that it would provide the funds for the pilot upon SC's approval of the pilot program, presumably at the March meeting. BACWA once again stressed the Return on Investment in the PC program if it is to have a chance of continuing beyond the one year pilot effort.

3. **Need for interim Facilitation** – This discussion was rolled into the above discussion under 4.ii.2.
4. **Establishment of Routine Meetings Dates for SC and PS** - Meeting dates have yet to be decided. **Action Item: DW to resend his proposal for the routine meetings.**

iii. NMS Calendar Review

1. **Review future SC and PS meeting schedules** – It was decided to hold the next PS meeting on March 2, 2016 (see attached NMS Calendar). **Action Item: IW to send out an Outlook meeting notice.**

The next SC meeting was tentatively set for the 5th Tuesday or Wednesday in March.

5. Other Updates

i. None

- ii. **Planning the next Subcommittee meeting** – The issue of increasing funding for the SP needs attention. A suggestion was made that perhaps a trip to Washington DC to seek funds may be warranted. It was noted that the head of permits at EPA Region IX has good insight into potential for more funds coming from EPA.

- iii. **Review of Action items from meeting** - Action items will be provided in the Meeting Summary.

iv. Next steps – no issues discussed

6. **Park Lot of Identified PS Future Agenda Items** – no items were added to the Parking Lot

- i.* **Brainstorming and options for attracting additional funds for use on the Science Plan**
- ii.* **Brainstorming on future priorities for the PS**

8. Adjourn 12:00

	NUTRIENT MANAGEMENT STRATEGY CALENDAR	
	March 2016 to December 2016	
DATE	AGENDA	NOTES
3/2/2016		
Planning Subcommittee Meeting #17	<u>Agenda Review</u> <u>Review Action Items</u> <u>Science Program Update</u> Staffing Other <u>Priority Updates</u> Report Outs Current Issues -Prepare Final Science Priorities for FY 17 -Options for Attracting Additional Funding for Science -Bay/Delta Workshop Update -Regional San RFP -Program Coordinator Scheduling <u>Other Updates</u> <u>Planning for Upcoming Meeting</u> -Finalize agenda for March Steering Committee Mtg. -Review of NMS Calendar <u>Parking Lot of Future Agenda Items</u>	
3/11/2016		
Steering Committee Meeting #8	<u>Welcome, Introductions, and Agenda Review</u> <u>Program Updates</u> Planning Subcommittee Science Program Financial <u>Technical Update</u> <u>Authorizations and Approvals</u> <u>Discussion Items</u> Final Review of NMS Science Priorities for FY 17 Engagement of Steering Committee Members Approval of Program Coordinator Pilot Study Brainstorming on opportunities to increase funding <u>Other Business</u> <u>Review Action Items and Preview Next Meeting</u>	

4/6/2016		
Planning Subcommittee Meeting #18	<u>Agenda Review</u>	
	<u>Review Action Items</u>	
	<u>Science Program Update</u>	
	Staffing	
	Other	
	<u>Priority Updates</u>	
	Report Outs	
	Current Issues	
	Scheduling	
	<u>Other Updates</u>	
	<u>Planning for Upcoming Meeting</u>	
	<u>Parking Lot of Future Agenda Items</u>	
5/4/2016		
Planning Subcommittee Meeting #19	<u>Agenda Review</u>	
	<u>Review Action Items</u>	
	<u>Science Program Update</u>	
	Staffing	
	Other	
	<u>Priority Updates</u>	
	Report Outs	
	Current Issues	
	Scheduling	
	<u>Other Updates</u>	
	<u>Planning for Upcoming Meeting</u>	
	<u>Parking Lot of Future Agenda Items</u>	
6/10/2016		
Steering Committee Meeting #9	<u>Welcome, Introductions, and Agenda Review</u>	
	<u>Program Updates</u>	
	Planning Subcommittee	
	Science Program	
	Financial	
	<u>Technical Update</u>	
	<u>Authorizations and Approvals</u>	
	Approve Science Plan Priorities for FY 17	
	Authorize Funds for FY 17 Scientific Studies	
	<u>Discussion Items</u>	
	<u>Other Business</u>	
	<u>Review Action Items and Preview Next Meeting</u>	
7/6/2016		
Planning Subcommittee Meeting #20	<u>Agenda Review</u>	
	<u>Review Action Items</u>	
	<u>Science Program Update</u>	
	Staffing	
	Other	
	<u>Priority Updates</u>	
	Report Outs	

	Current Issues	
	Scheduling	
	<u>Other Updates</u>	
	<u>Planning for Upcoming Meeting</u>	
	<u>Parking Lot of Future Agenda Items</u>	
8/3/2016		
Planning Subcommittee Meeting #21	<u>Agenda Review</u>	
	<u>Review Action Items</u>	
	<u>Science Program Update</u>	
	Staffing	
	Other	
	<u>Priority Updates</u>	
	Report Outs	
	Current Issues	
	Scheduling	
	<u>Other Updates</u>	
	<u>Planning for Upcoming Meeting</u>	
	<u>Parking Lot of Future Agenda Items</u>	
9/9/2016		
Steering Committee Meeting #10	<u>Welcome, Introductions, and Agenda Review</u>	
	<u>Program Updates</u>	
	Planning Subcommittee	
	Science Program	
	Financial	
	<u>Technical Update</u>	
	<u>Authorizations and Approvals</u>	
	<u>Discussion Items</u>	
	<u>Other Business</u>	
	<u>Review Action Items and Preview Next Meeting</u>	
10/5/2016		
Planning Subcommittee Meeting #22	<u>Agenda Review</u>	
	<u>Review Action Items</u>	
	<u>Science Program Update</u>	
	Staffing	
	Other	
	<u>Priority Updates</u>	
	Report Outs	
	Current Issues	
	Scheduling	
	<u>Other Updates</u>	
	<u>Planning for Upcoming Meeting</u>	
	<u>Parking Lot of Future Agenda Items</u>	
11/2/2016		
Planning Subcommittee Meeting #23	<u>Agenda Review</u>	
	<u>Review Action Items</u>	

	<u>Science Program Update</u>	
	Staffing	
	Other	
	<u>Priority Updates</u>	
	Report Outs	
	Current Issues	
	Scheduling	
	<u>Other Updates</u>	
	<u>Planning for Upcoming Meeting</u>	
	<u>Parking Lot of Future Agenda Items</u>	
12/9/2016		
Steering Committee Meeting #11	<u>Welcome, Introductions, and Agenda Review</u>	
	<u>Program Updates</u>	
	Planning Subcommittee	
	Science Program	
	Financial	
	<u>Technical Update</u>	
	<u>Authorizations and Approvals</u>	
	<u>Discussion Items</u>	
	Draft NMS Science Priorities for FY 18	
	<u>Other Business</u>	
	<u>Review Action Items and Preview Next Meeting</u>	



DRAFT

Executive Board Special Meeting Agenda
SF Bay Regional Water Board/BACWA Executive Board
Joint Meeting
February 29, 2015 10:00 am – 12:00 pm
SF Bay Water Board: 1515 Clay St., 1400, Oakland, CA

ROLL CALL AND INTRODUCTIONS – 10:00

PUBLIC COMMENT – 10:05

DISCUSSION/OTHER BUSINESS- 10:10

Topic	Goal	Time
1. Nutrients a. Optimization and Upgrade studies b. SAG meeting review	<ul style="list-style-type: none">• Update on schedule and challenges re: optimization and upgrade studies• Discussion of the status of the assessment framework document, opportunity for additional comments, and next steps envisioned for use of the document	10:15
2. Collection Systems issues	<ul style="list-style-type: none">• Discussion of metrics demonstrating a collection system is “well performing”• Mariposa lawsuit finding MMPs not protective against CWA lawsuits• Private Sewer Lateral Ordinances for triggering inspection and repair – agency survey	11:10
3. Alternative Monitoring Requirements TO	<ul style="list-style-type: none">• How will alternative reporting be implemented in CIWQS? How will it be communicated to EPA for DMRs? Potential for errors leading to apparent violations.	11:25
4. Microplastics and CECs	<ul style="list-style-type: none">• Update on BACWA’s microplastics workgroup• BACWA response to Water Board’s request for CEC management Fact Sheets	11:35
5. Toxicity	<ul style="list-style-type: none">• Update on LACSD toxicity violations	11:45
9. Pardee Dates	<ul style="list-style-type: none">• Review dates	10:55

ADJOURNMENT

Sherry Hull

From: Sherry Hull
Sent: Friday, February 12, 2016 4:09 PM
To: Sherry Hull
Subject: Re-revised due date for Alt MRP accounting report

Subject: Re-revised due date for Alt MRP accounting report

Date: Thu, 11 Feb 2016 23:07:39 +0000

From: Tang, Lila@Waterboards <Lila.Tang@waterboards.ca.gov>

To: Lorien Fono (lfono@pmengineers.com) <lfono@pmengineers.com>, Williams, David@@bacwa.org <dwilliams@bacwa.org>

Mumley said that the Feb 1 letter report for RMP participation may change, so I have generalized the accounting report for the Alt MRP as shown below. Let me know if you have any concerns.

Comment 6 (BACWA): *In January of each year, BACWA works with the RMP to submit a letter to the Regional Water Board certifying which agencies have paid their RMP dues for the previous year. BACWA recommends that the reporting deadline for participation in the Alternate Monitoring Requirements be changed to February 1 to avoid duplicative reporting.*

Response: We agree. Provision VI.C.1.b is revised as shown below:

a. Report Amount of Cost Savings Directed to the RMP

The Discharger shall, either individually or in collaboration with other dischargers, submit or cause to submit, ~~on October 1 of each year,~~ a report each year that shows an accounting of each Discharger's payment^[1] to the RMP for coverage under this Order. The report is due on the same date as the letter certifying the Discharger's annual payment in support of RMP receiving water monitoring (currently on February 1).

^[1] The Regional Water Board will consider enforcement action against a Discharger that reduces monitoring from what is required by its individual NPDES permit, or the Watershed Permit for Mercury and PCBs, but does not provide the cost savings listed in Attachment C of this Order to the RMP.

These past 12 months since the last WEFTEC in New Orleans we completed essential research on nutrient removal, integrated water and a series of studies illustrating how energy neutrality for the domestic wastewater industry is within reach.

- [*A Guide to Net-Zero Energy Solutions for Water Resource Recovery Facilities* \(ENER1C12\)](#) – This study advances knowledge and implementation of energy-efficient best practices in the industry, moving water resource recovery facilities closer to achieving energy neutrality.
- [*Framework for Energy Neutral Treatment for the 21st Century through Energy Efficient Aeration* \(INFR2R12\)](#) – This study provides direct evidence of the connection between biofilm fouling and reduced diffuser efficiency.
- [*Wastewater Treatment Anaerobic Digester Foaming Prevention and Control Methods* \(INFR1SG10\)](#) – This project includes a case study report of anaerobic digestion foaming causes, methods of foam detection, and control and mitigation methods for each full-scale plant studied.
- [*Institutional Issues for Integrated “One Water” Management* \(SIWM2T12\)](#) – This project focuses on several case studies that provide practical examples of how agencies and communities have worked through institutional barriers so they can practice a more integrated and sustainable approach to water resource management.
- [*Blueprint for Onsite Water Systems* \(SIWM7W14\)](#) – This step-by-step guide includes contributing opinions from several WERF subscribers and partners such as Seattle Public Utilities, Milwaukee Metropolitan Sewage District, New York City Department of Environmental Protection, U.S. EPA, and more to help communities develop and implement onsite water systems.
- [*Transforming Our Cities: High-Performance Green Infrastructure* \(INFR1R11\)](#) – This project describes a relatively inexpensive method that can be widely adapted to various types of stormwater retention technologies.
- [*Demonstrating Advanced Oxidation/Biofiltration for Pharmaceutical Removal in Wastewater* \(U2R11\)](#) – This research evaluates the efficacy of ultraviolet-based advanced oxidation processes followed by bio-filtration as an integrated treatment solution to remove TOCs from wastewater.
- [*Pilot Testing of Membrane Zero Liquid Discharge for Drinking Water Systems* \(WERF5T10\)](#) – This study focuses on how improving brine management for inland water sources explores zero liquid discharge (ZLD) for drinking water systems.
- [*Algal Nutrient Removal During Wastewater Treatment* \(U4R10\)](#) – This research explores an affordable nutrient removal/resource recovery technology for small- to mid-sized treatment plants.
- [*The Bioavailable \(BAP\) Fraction in Effluent from Advanced Secondary and Tertiary Treatment* \(NUTR1R06m\)](#) – This research examines effluent of 17 full-scale water resource recovery facilities representing a wide range of phosphorus (P) removal technologies.
- [*Phosphorus Fractionation and Removal in Wastewater Treatment: Implications for Minimizing Effluent Phosphorus* \(NUTR1R06l\)](#), researchers from Northeastern University investigated a number of wastewater treatment configurations to determine the various phosphorus fractions, and their fate and susceptibility to a range of different phosphorus removal processes in order to gain better insights into the removal efficiency and mechanism of different phosphorus fractions through various treatment technologies. The team found that advanced tertiary treatment processes can achieve low effluent total phosphorus levels.
- [*Bioavailability and Characteristics of Dissolved Organic Nutrients in Wastewater Effluents* \(NUTR1R06o\)](#) – This study investigates various P fractions in the effluent of three advanced water resource recovery facilities with five different phosphorus removal processes at the pilot- or full-scale.
- [*Mineralization Kinetics of Soluble Phosphorus and Soluble Organic Nitrogen in Advanced Nutrient Removal Effluents* \(NUTR1R06p\)](#), looked at the dissolved P uptake kinetics characterization for five treatment facilities in the Spokane, Washington Region. The research presents a general approach for improving models used in managing nutrient impacted water bodies.
- [*BNR Process Monitoring and Control with Online Nitrogen Analyzers for Nitrogen Credit Exchange Program in Connecticut* \(NUTR1R06y\)](#), summarizes the use of online analyzers by

water pollution control facilities in Connecticut, as well as considerations for their use for automated process control. The research includes case studies from the wastewater treatment facilities in Connecticut, which shed light on the practical approaches towards automated online process control for the improvement of BNR process performance.

- [Can TMDL Models Reproduce the Nutrient Loading-Hypoxia Relationship?](#) (U4R09), sought to construct a long-term time series of nutrient loading for the Chesapeake Bay (1950-present) from nutrient loading observations (Susquehanna, Potomac, and Patuxent Rivers), as well as proxies for other non-tidal rivers, long-term records of point sources, and proxies for changes in atmospheric loading. Based on the findings and recommendations from this research, regulatory agencies may want to evaluate the agreement between modeled and observed hypoxic volume in future TMDL re-evaluations.
- [Leading Practices and Key Performance Indicators for Asset Maintenance](#) (SAM1R06k) –This research gathers information from several utilities related to leading practices and key performance indicators of asset maintenance through personal interviews, reports, data sheets, and surveys.
- [Twenty First Century Water Asset Accounting – Case Studies and Implications Reports](#)(INFR6R12a and INFR6R12b) – This research identifies a standard process for adding the cost savings provided by green infrastructure and watershed protection in a format that parallels current accounting principles.
- [Fate of Engineered Nanomaterials in Wastewater Biosolids, Land Application, and Incineration](#) (U1R10) – This study discusses tools that can be used to quantify how engineered nanomaterials (ENMs) undergo wastewater treatment, accumulate in biosolids, and whether they accumulate in the environment.

We began game-changing research on recovery of resources from wastewater.

- The University of Nebraska-Lincoln will explore the *Production of Bioisoprene from Wastewater* (WERF project # NTRY6R14). The research team will convert biomass from wastewater treatment facilities into isoprene (used in production of rubber components of automotive tires), as well as renewable biofuel (methane) using an engineered microbe.
- Greeley and Hansen is conducting research on *A Multi-Platform Approach to Recovering High Value Carbon Products from Wastestreams* (WERF project # NTRY4R14). This study will develop technological and economic platforms for the conversion of organic carbon compounds to commercially attractive chemicals and commodities. The research team will consider generation of substrates for biodiesel production, precursors to biodegradable plastics, and alternative vehicle fuels from water resource recovery facilities.
- Northeastern University will investigate a promising new sidestream enhanced biological phosphorus removal (EBPR) process. This pioneering research entitled *Investigate the Mechanism for Optimization and Design of Sidestream EBPR Process as a Sustainable Approach for Achieving Stable and Efficient Phosphorus Removal* (WERF project #U1R13), could help transform our understanding and ability to protect and preserve water resources in a sustainable and cost-effective manner.
- Awarded two contracts to Brown and Caldwell that build upon its current nutrient research. The first contract is for a project entitled *Model Guidance for Developing Site Specific Nutrient Goals – Demonstration, Boulder Creek, Colorado* (LINK 2T14). The research team is using available monitoring data for Boulder Creek to evaluate potential nutrient management scenarios using WERF’s guidance for developing waterbody-specific nutrient goals. The project will demonstrate the viability of WERF’s method for setting waterbody-specific nutrient targets in Colorado, and identify key results that can be transferred to other locations in Colorado and nationwide.

- The second project, *Nutrient Recovery through Urine Separation* (NTRY10T15), is a part of WERF's research through the U.S. Environmental Protection Agency's National Center for Resource Recovery and Nutrient Management. The Brown and Caldwell team is working with Hampton Roads Sanitation District (HRSD) to plan and implement urine collection and storage systems, conduct field and lab-based experiments addressing scale and odor issues associated with urine collection and storage, and construction of a struvite pilot plant at HRSD.
- *WaterWatts: A Modern Look at Wastewater Power-Metering Data* (ENER15C15), was awarded to Brown and Caldwell. As utilities strive to become more energy efficient, it is important to understand the electric power required by process, particularly those involving aeration. Most studies to date have not used disaggregated power data to calculate energy intensity, instead relying on whole plant (black-box) estimates or modeled results. The main objective of this study is to evaluate disaggregated power-metering data from over 40 water resource recovery facilities.
- *Energy Recovery from Thermal Oxidation of Water Solids – State of the Science Review* (ENER13T14), will be conducted by Black and Veatch. This research will examine the energy potential from the thermal oxidation of biosolids and other residuals by documenting the effectiveness of energy or heat recovery from up-to-date thermal oxidation units with combined heat and power. The research team will determine the potential for renewable energy recovery from thermal oxidation of wastewater residuals at water resource recovery facilities practicing incineration nationwide and compare the triple bottom line value of energy recovered from biosolids by thermal oxidation to the same units of energy obtained from coal.
- *Carbon Capture and Management Strategies for Energy Harvest from Wastewater* (U3R14), will be conducted by the University of California, Irvine. The overall goal of this project is to develop the tools necessary to use carbon capture technologies, whether existing or retrofitted into existing infrastructure, to maximize energy recovery while still maintaining permit compliance. The intent is to develop process controllers and models that can be applied to all carbon capture technologies regardless of influent conditions and effluent requirements. Two pilot sites at DC Water and Hampton Roads Sanitation District will be used for this research.
- The University of Kansas has been awarded a contract to move forward with research on *Balancing Flocs and Granules for Activated Sludge Process Intensification in Plug Flow Configurations* (U1R14). This study will provide strategies and design criteria to stimulate granulation in existing activated sludge processes to improve overall settleability and allow for simultaneous nutrient removal. The research team includes eight municipal utilities in three countries, eight engineering firms, and three universities to perform pilot-scale and full-scale trials, process modeling, and more.
- A contract has been awarded to Virginia Tech University to develop a wastewater pipe deterioration model. Phase I and II of this project were previously completed under WERF's Strategic Asset Management Challenge. In Phase I, the research team identified wastewater pipe, failure modes and mechanisms, consequences of failure, and developed data structures and data collection protocols and methodologies. Phase II developed a standard procedure for rating the performance/condition of wastewater pipes. The final task entitled *Phase-3 Development of Wastewater Pipeline Deterioration Model* (U4R14) will explore mathematical modeling methodologies including advanced artificial intelligence techniques to provide utility

managers with a practical and efficient technique for predicting wastewater pipeline performance and estimating end of remaining life using deterioration curves to assist in decision-making.

We drove the information sharing on managing risks from contaminated wastewater.

- *Protecting Wastewater Treatment Plant Operators from Emerging Pathogens: A Preparedness Protocol and On-Line Decision Support Tool (WERF3C15)*. University of North Carolina at Chapel Hill will develop an integrated preparedness protocol and decision support tool to guide WRRF operators and public health policymakers to prepare for potential risks of emerging pathogens conveyed in wastewater. The result of this study will equip the wastewater sector to be better informed and prepared based on the estimated levels of risk from the emerging pathogen of concern by using advanced but user-friendly decision support tools.
- *Occurrence, Proliferation, and Persistence of Antibiotics and Antibiotic Resistance During Wastewater Treatment (WERF1C15)*, is in response to a 2000 World Health Organization report identifying antibiotic resistance (AR) as a critical human health challenge for the next century and heralded the need for “a global strategy to contain resistance.” The research team from the University of Las Vegas will identify the major source(s) of wastewater-derived AR (i.e., raw sewage), determine the treatment conditions that promote AR development or reduce its prevalence, and characterize the persistence of AR in the environment. Ultimately, this knowledge will assist in developing mitigation strategies and potentially alleviate environmental and public health concerns.
- *Evaluating Fate Mechanisms for Contaminants of Concern in BNR Treatment Systems (U2R13)*, will be led by the University of Cincinnati and Southern Nevada Water Authority. Due to the recent emergence of Biological Nutrient Removal (BNR) treatment, a process used to remove nitrogen and phosphorus from wastewater, there is an urgent need to understand the fate and removal mechanisms of TORC in BNR systems. This research aims to fill in the gaps essential for optimizing current treatment processes for TORC removal and in using mass balance models for predicting TORC fate and removal in BNR treatment systems.
- Iowa State University *Simple and Fast Detection of Bacteria in Recreational Water (U4R13)* to develop a simple dip-stick test for the detection of fecal indicator bacteria *E.coli* in recreational waters in a short period of time. The development of a paper-based device for the detection of waterborne pathogens or pathogen indicators has the potential to transform current recreational water quality monitoring programs. Municipalities, regulatory agencies, local officials, and beach managers would all benefit from the ability to more frequently monitor discharges and recreational waters for pathogens.

We are actively sharing all of these findings to inform decision making at the Department of Energy, National Science Foundation, and the Environmental Protection Agency. We have also convened meetings of our experts to inform decision making.

- [Ammonia Criteria Implementation Stakeholders Meeting \(WERF3C14\)](#) – This project is a collaboration between the Water Environment Research Foundation, the National Association of Clean Water Agencies, the Association of Clean Water Administrators, and the Water Environment Federation. Last October, the organizations convened a meeting of selected stakeholders to identify research gaps and tools for cost-effective implementation of the revised ammonia ambient water quality criteria

This past year LIFT has continued to grow:

- In January, WEF and WERF entered into a memorandum of understanding laying out the next steps for bringing innovation to the industry in a LIFT 2.0 framework.
- In August, WEF and WERF gathered an elite group at Manhattan College to share knowledge and map out innovations of the future.
- Soon an online collaboration site, known as LIFT LINK, will be available
- *LIFT Creating the Space (LIFT8C14)*, is an agreement between WERF and WEF to address impediments and promote incentives to the adoption of innovative technologies and practices. This project seeks to identify major influences to innovation in the water utility sector; identify and implement measures to manage or share risk by providing a space for innovation through permit flexibility in compliance schedules or different kinds of permits; and address perceived challenges in some states with permitting new technologies, potentially beginning with comparing practices and approaches in different states.
- A framework for the formation of a national testing and evaluation program in the stormwater sector (*INFR2R14*). The project is being funded through an U.S. Environmental Protection Agency (EPA) Infrastructure grant administered by WERF, and is based upon WEF's National Stormwater Testing and Evaluation for Products and Practices ([STEPP](#)) Initiative. A national program could reduce the burden on state and local governments as well as open markets up to stormwater product manufacturers leading to greater competition, an increase in innovation in the sector, and more cost-effective solutions for stormwater management.
- *Controlled Laboratory Investigation of Siloxane Adsorption Media and Variables Impacting Performance (LIFT7T14)*, will evaluate the performance of four types of solid sorbents commonly used to remove siloxanes from digester gas. The results of this research performed by Virginia Tech will provide information that can be used to more reliably and cost-effectively design, install, and operate energy recovery processes at water resource recovery facilities that use biogas as a renewable energy resource.

WERF has nurtured strategic partnerships to avoid duplication among research organizations. As a result, WERF has signed agreements with:

- the National Science Foundation,
- the Water Research Commission in South Africa,
- Southern California's Coastal Water Resource Partnership,
- Isle Utilities
- Hampton Roads Sanitation District and DC Water to establish a self sustaining Research Fund.

We worked towards better alignment with the Water Research Foundation and strengthened ties with federal agencies such as the Department of Energy, Department of Agriculture and our long-term partner the Environmental Protection Agency. WERF is working with many organizations that we had

not coordinated with before. Examples include the National Corn Growers Association, the Bureau of National Affairs, American Planning Association, and The World Bank.

- *Agricultural Best Management Practices (BMP) Performance: Population of a New National BMP Database (WERF4C14)*, is funded by the United Soybean Board. The project team from Wright Water Engineers and Geosyntec will populate WERF's newly develop Agricultural BMP Database with agricultural BMP performance data and information using scientifically developed methods and protocols.
- *Stream Restoration: A Crucial New BMP Database Module (U5R14)* seeks to develop an information clearinghouse to help guide watershed planners and designers with the most up to date design and performance information for this emerging technology. Both urban and agricultural communities are using stream restoration practices to reduce pollution and improve habitat in watersheds across the U.S. Having this type of clearinghouse is critical to assure communities are implementing the most effective projects.

BACWA Annual Members Meeting 2016

Thursday, February 04, 2016

Powered by  SurveyMonkey

19

Total Responses

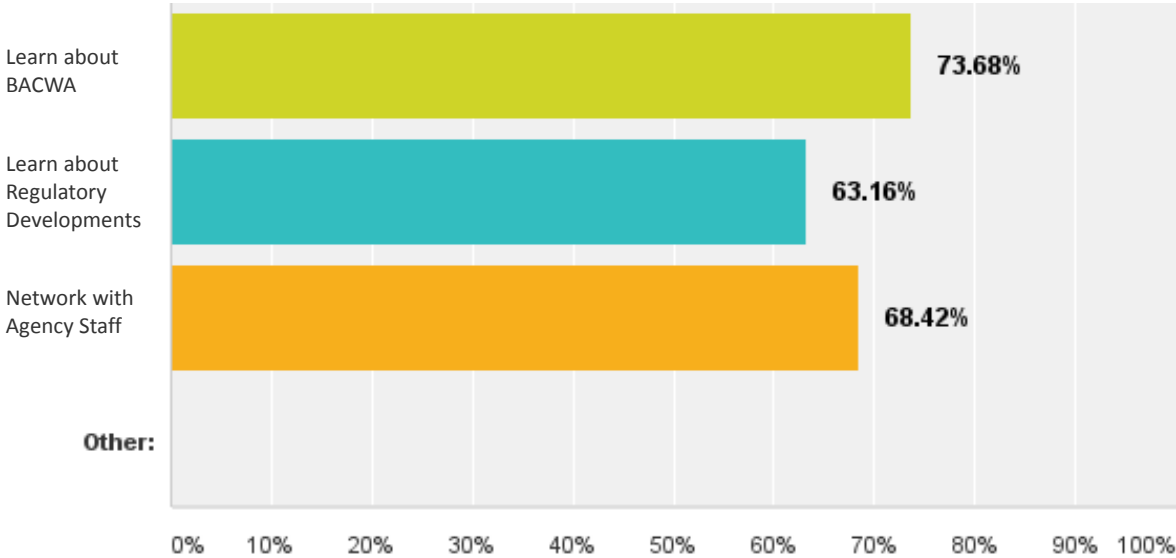
Date Created: Wednesday, January 20, 2016

Complete Responses: 19

Powered by  SurveyMonkey

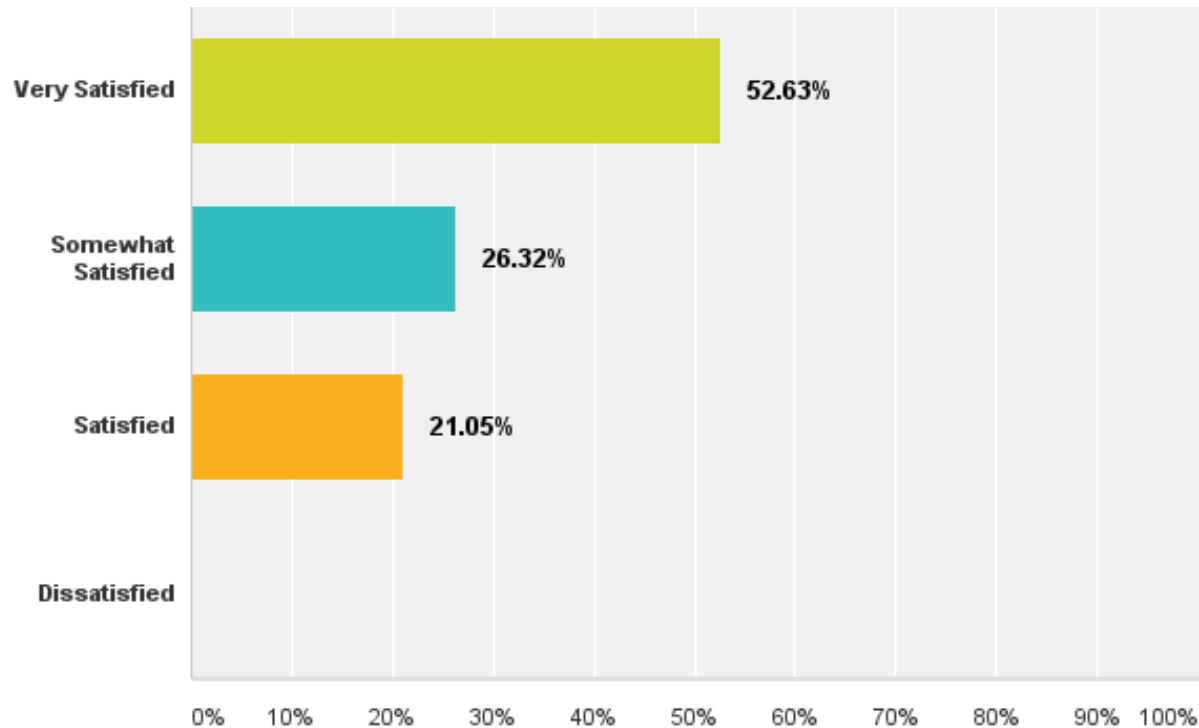
Q1: What are your reasons for attending the annual meeting?

Answered: 19 Skipped: 0



Q2: How satisfied were you with the presentations?

Answered: 19 Skipped: 0

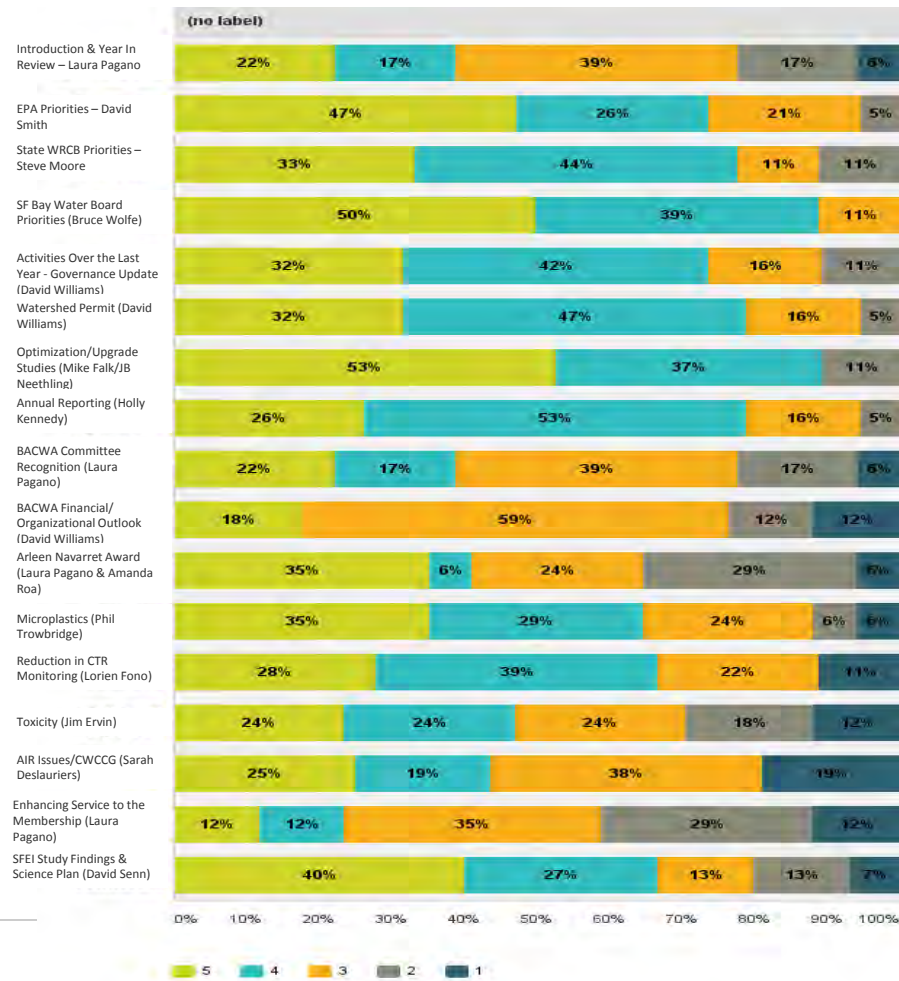


Comments:

- The content was good but the projector was weak so it was hard to see the slides.
- Science presentation needs to be earlier, preferably in the am
- The last presenter was very long, and although the science was interesting, it was not really clear exactly how it applied to the overall plan for WWTPs and the nutrient permit.

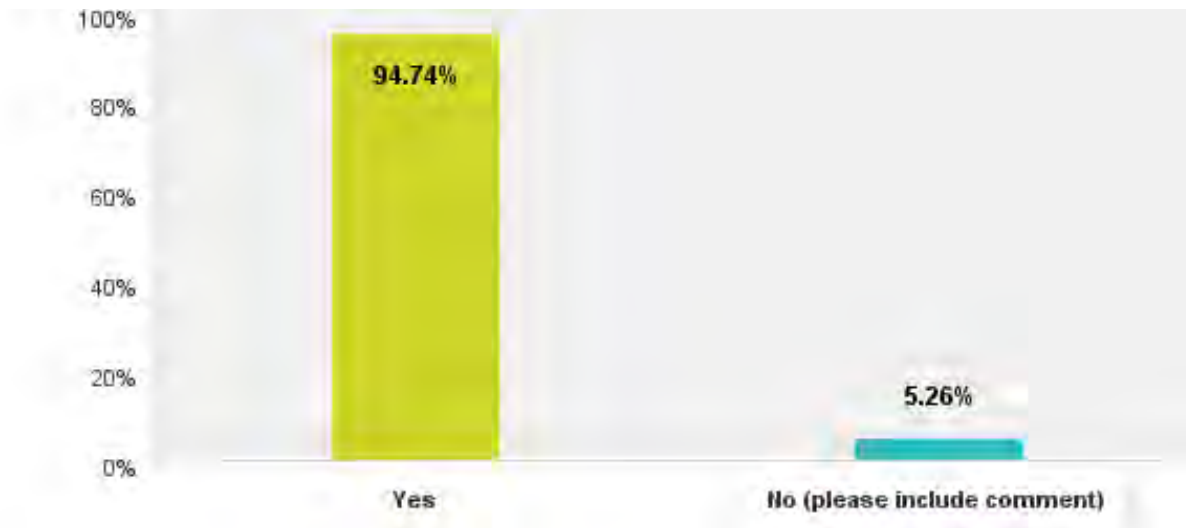
Q3: What topics did you find MOST useful and/or interesting? Please rank your choices, choosing 5 as the MOST useful and/or interesting and 1 as the LEAST useful and/or interesting.

Answered: 19 Skipped: 0



Q4: Did you find the overall length of the meeting to be appropriate? If not, please explain.

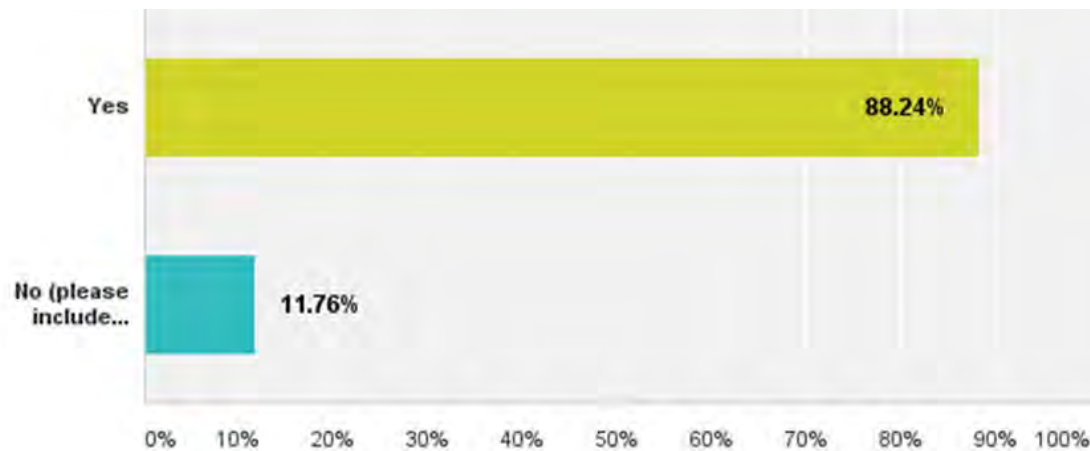
Answered: 19 Skipped: 0



- The last presentation should have been shorter to keep people engaged.

Q5: Would you recommend that we continue to have the meeting at this venue? (Boy Scout Headquarters in San Leandro). Please explain and/or suggest another venue and why it would be better.

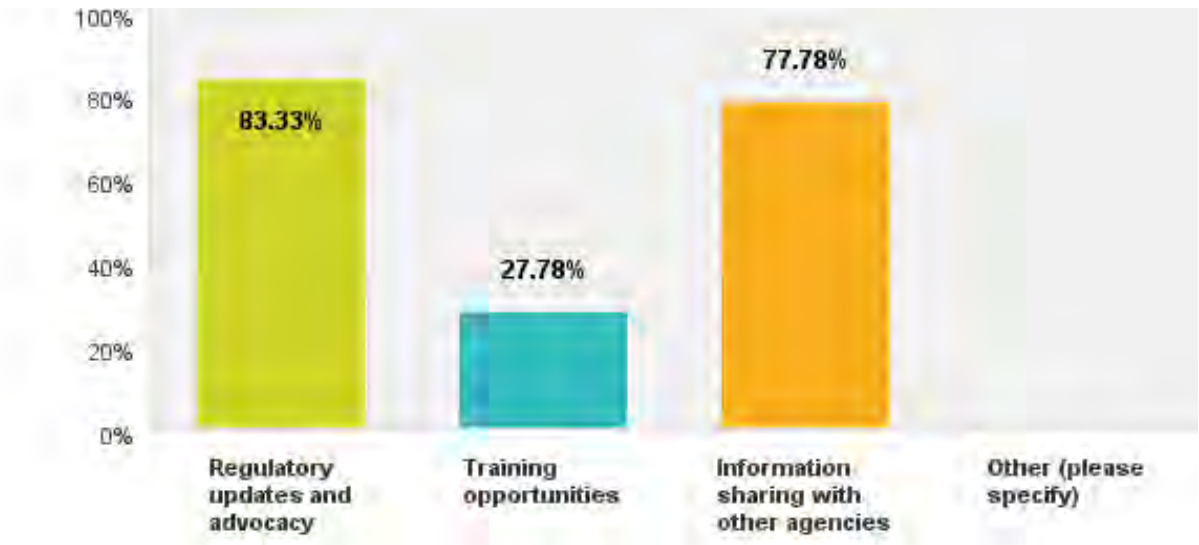
Answered: 17 Skipped: 2



- The location was good but the slide projector was weak which made it difficult to see the slides.
- Easy access, crowded but fine.
- As long as we work out the set up issues for your folks - crazy to use a venue where the set up is not done when you arrive.
- I thought it was a very nice venue and is conveniently located.

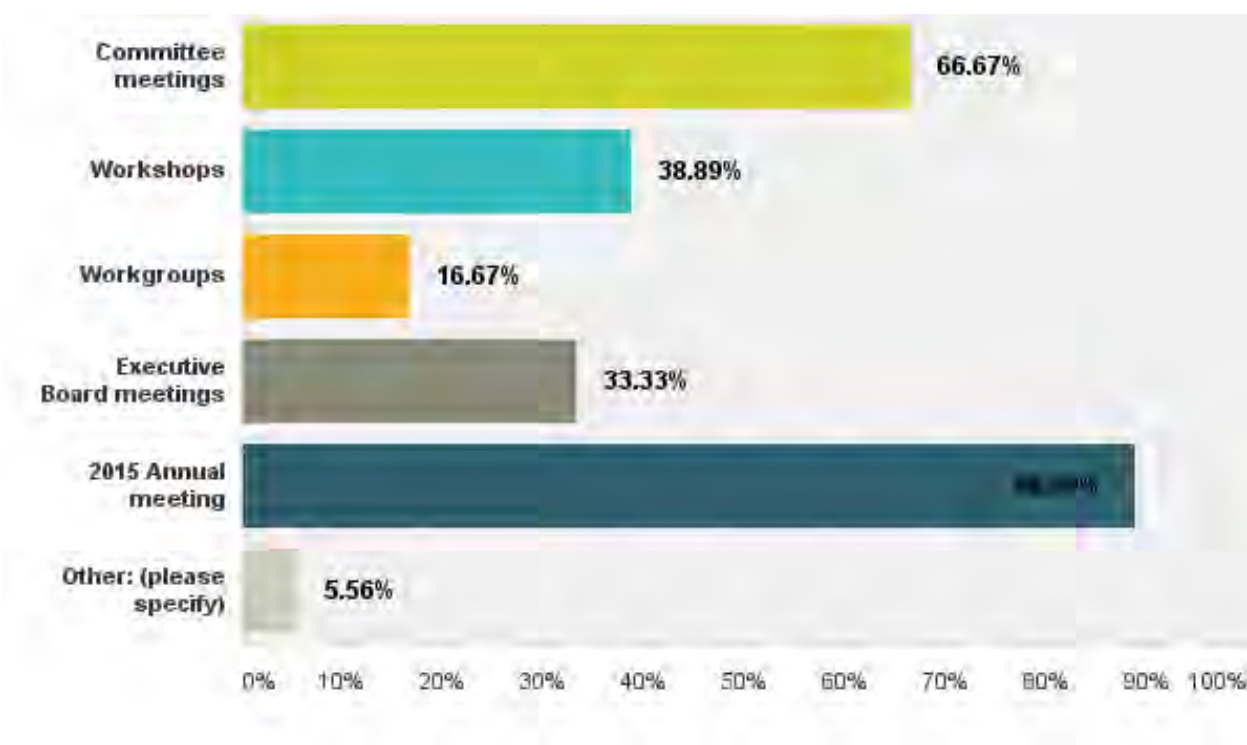
Q6: What are the most important benefits that you receive from BACWA membership?

Answered: 18 Skipped: 1



Q7: What BACWA events did you attend in 2015?

Answered: 18 Skipped: 1



Q8: What could BACWA do to better serve your agency?

- Doing fine
- Improve your website
- Lower costs

Q9: Any other suggestions for improving the meeting?

- Do test run of projector and audio prior to starting meeting.
- Hand out parking passes in the lobby. It might be nice to have some sort of networking activity to encourage folks to meet new people and share stories. Also, it might be nice to have a bit more of a "closing remarks" type of ending to the meeting, summarizing what was covered and why it's important.

FY 2017
BACWA BUDGET
DRAFT

<u>BACWA FY16 BUDGET</u>	<u>Line Item Description</u>	<u>FY 2016 Budget</u>	<u>FY2016 Budget Amended</u>	<u>FY2016 Actuals to date</u>	<u>Variance</u>	<u>FY 2017 DRAFT Budget</u>	<u>NOTES</u>
<u>REVENUES & FUNDING</u>							
Principals' Contributions		\$468,180	\$468,180	\$468,180	\$0	\$477,544	2% increase.
Associate & Affiliate Contributions		\$171,639	\$171,639	\$170,079	-\$1,560	\$175,072	2% increase. FY16: \$174,759 invoiced
Fees	Clean Bay Collaborative	\$675,000	\$675,000	\$671,250	-\$3,750	\$675,000	FY15: \$750 = N. San Meteo CBC Fee written off, FY16: \$750 = actual billing was \$750 lower than expected at \$674,250. N. San Mateo refusing to pay in FY16, too.
	Nutrient Surcharge	\$600,000	\$600,000	\$600,458	\$458	\$800,000	FY16: Includes SFEI Carryforward. Actual invoiced: \$600,608
	Other		\$86,779				SFEI Carryforward from FY15
Other Receipts							
	AIR Committee Phase-in	\$50,000	\$50,000	\$48,080	-\$1,920	\$25,000	FY16: \$48,080 invoiced
	AIR Non-Member	\$6,200	\$6,200	\$6,200	\$0	\$6,350	Approx. 2% increase.
	BAPPG Non-Members	\$3,600	\$3,600	\$3,600	\$0	\$3,700	Approx. 2% increase.
	Other		\$0	\$15,810	\$15,810		Reimb. from EBMUD for Sidestream Study
Fund Transfer	Special Program Admin Fees	\$2,500	\$2,500	\$2,438	-\$62	\$2,500	WOT only
Interest Income	Funds	\$1,500	\$1,500	\$3,900	\$2,400	\$4,000	FY16: Actuals include BACWA, AIR & Nutrients Funds
	Investments		\$0	\$924	\$924	\$0	Interest from Called CD
	Total Revenue	\$1,978,619	\$2,065,398	\$1,990,919	\$12,300	\$2,169,165	
<u>EXPENSES</u>							
	<u>Line Item Description</u>	<u>FY 2016 Budget</u>					
Labor							SF/Oakland/San Jose Metro Area CPI Annual Dec 2015
	Executive Director	\$183,498	\$183,498	\$91,749	\$91,749	\$189,370	assumes 3.2% CPI
	Assistant Executive Director	\$78,642	\$78,642	\$44,822	\$33,820	\$81,159	assumes 3.2% CPI - requested 8.2%
	Regulatory Program Manager	\$123,360	\$123,360	\$49,355	\$74,005	\$127,308	assumes 3.2% CPI - RFP for FY17
	Total	\$385,500	\$385,500	\$185,927	\$199,573	\$397,836	
Administration							
	EBMUD Financial Services	\$40,000	\$40,000	\$23,389	\$16,611	\$40,000	Requested \$46,500. Maze at \$6,050 in FY16, \$6,141 in FY17
	Auditing Services (Maze)	\$0	\$0	\$3,576	-\$3,576	\$6,200	Pd in FY16: \$2,980 for FY15; \$596 for FY16
	Administrative Expenses	\$7,500	\$7,500	\$1,704	\$5,796	\$7,500	Travel, Supplies, Parking, Mileage, Tolls, Misc.
	Insurance	\$4,500	\$4,500	\$4,152	\$348	\$4,500	
	Total	\$52,000	\$52,000	\$32,821	\$19,179	\$58,200	
Meetings							
	EB Meetings	\$2,500	\$2,500	\$995	\$1,505	\$2,500	5 of 10 meetings paid
	Annual Meeting	\$8,000	\$8,000	\$3,342	\$4,658	\$7,000	add the A Navarret Award to that line item? (\$163.89)
	Pardee	\$5,000	\$5,000	\$5,753	-\$753	\$6,000	Catering & Venue
	Misc. (Summit Partners)	\$1,100	\$1,100	\$910	\$190	\$1,100	Holiday Lunch and Committee Chair Lunch
	Total	\$16,600	\$16,600	\$11,000	\$5,600	\$16,600	

FY 2017
BACWA BUDGET
DRAFT

	<u>Line Item Description</u>	<u>FY 2016 Budget</u>					
Communication	Website Development/Maintenance						
	Website Hosting (Computer Courage)	\$600	\$600	\$600	\$0	\$600	
	File Storage (Box.net)	\$720	\$720	\$720	\$0	\$750	
	Website Development/Maintenance	\$1,200	\$1,200	\$160	\$1,040	\$1,200	Domains, website changes, Logo EPS file
	Subtotal	\$2,520	\$2,520	\$1,480	\$1,040	\$2,550	
	IT Support & Software						
	IT Support (Managed Services)	\$1,800	\$1,800	\$0	\$1,800	\$0	Cancelled in FY16.
	IT Support (As Needed)	\$2,000	\$2,000	\$1,345	\$655	\$2,600	
	Email (Office 365/MS Exchange)	\$480	\$480	\$280	\$200	\$500	
	Other Communication (Survey Monkey)	\$288	\$288	\$168	\$120	\$300	
	Subtotal	\$4,568	\$4,568	\$1,793	\$2,775	\$3,400	
	Total	\$7,088	\$7,088	\$3,273	\$3,815	\$5,950	
Legal							
	Regulatory Support	\$2,500	\$2,500	\$70	\$2,430	\$2,500	
	Executive Board Support	\$2,000	\$2,000	\$1,392	\$608	\$2,000	
	Total	\$4,500	\$4,500	\$1,462	\$3,038	\$4,500	
Committees							
	AIR	\$50,000	\$50,000	\$23,582	\$26,418	\$50,000	Consultant Support, Admin provided by BACWA Staff beg. in FY16
	BAPPG	\$86,000	\$86,000	\$44,250	\$41,750	\$86,000	Includes CPSC @ \$10,000,
	Biosolids Committee	\$3,100	\$3,100	\$297	\$2,803	\$3,100	
	Collections System	\$10,000	\$10,000	\$750	\$9,250	\$1,000	FY16 Actuals Includes \$500 in Venue Costs from FY15
	InfoShare Groups	\$1,000	\$1,000	\$345	\$655	\$1,200	
	Laboratory Committee	\$6,000	\$6,000	\$2,291	\$3,709	\$6,000	
	Permit Committee	\$1,000	\$1,000	\$904	\$96	\$1,000	
	Pretreatment	\$1,000	\$1,000	\$841	\$159	\$7,000	Requested \$7,000
	Recycled Water Committee	\$1,000	\$1,000	\$0	\$1,000	\$1,000	
	Misc Committee Support	\$30,000	\$30,000	\$0	\$30,000	\$35,000	
	Total	\$189,100	\$189,100	\$73,260	\$115,840	\$191,300	

FY 2017
BACWA BUDGET
DRAFT

	<u>Line Item Description</u>	<u>FY 2016 Budget</u>					
Collaboratives		\$1,722,500					
	Collaboratives						
	State of the Estuary (biennial)	\$0	\$0	\$0	\$0	\$20,000	Biennial in Odd Years
	Arleen Navarret Award	\$1,000	\$1,000	\$0	\$1,000	\$0	Biennial in Even Years
	FWQC (Fred Andes)	\$5,000	\$5,000	\$5,000	\$0	\$7,500	Requested \$7,500 for FY16
	Stanford ERC (ReNUWit)	\$10,000	\$10,000	\$10,000	\$0	\$10,000	
	CWCCG	\$35,000	\$35,000	\$35,000	\$0	\$0	Absorbed by CASA
	Misc					\$3,000	
	Total	\$51,000	\$51,000	\$50,000	\$1,000	\$40,500	
Tech Support	Technical Support						
	Nutrients						
	Watershed	\$880,000	\$880,000	\$870,000	\$10,000	\$880,000	\$9,711 pd in FY15
	Additional work under permit	\$100,000	\$100,000	\$15,810	\$84,190	\$50,000	Reimb by EBMUD - Sidestream Analysis. FY17: Pilot
	Opt/Upgrade/Annual Reporting Studies	\$559,000	\$559,000	\$164,416	\$394,584	\$18,128	To be discussed
	Nutrient Program Coordination	\$50,000	\$50,000	\$0	\$50,000	\$100,000	Prog Coord Pilot Study scheduled for FY17
	General Tech Support	\$50,000	\$136,779	\$57,928	\$78,851	\$50,000	SFEI agrmt bal: \$28,409.12. FY17: Assesmt Framework
	Chemicals of Concern	\$15,000	\$15,000	\$0	\$15,000	\$15,000	Pesticide Mgmt
	Risk Reduction	\$17,500	\$17,500	\$5,226	\$12,274	\$32,500	Contracts executed for \$50k in FY16
	Total	\$1,671,500	\$1,758,279	\$1,113,381	\$644,898	\$1,145,628	
	TOTAL EXPENSES	\$2,377,288	\$2,464,067	\$1,471,124	\$992,943	\$1,860,514	
	NET INCOME BEFORE TRANSFERS	-\$398,669	-\$398,669			\$308,651	5 Year Plan: Est 2017: \$298,736
	TRANSFERS FROM RESERVES	\$398,669	\$398,669			\$0	
	NET INCOME AFTER TRANSFERS	\$0	\$0			\$308,651	

February 10, 2016

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

Subject: Invitation to Participate in Drought Task Force for the Bay Area Regional Reliability Drought Contingency Plan

Dear Mr. Williams,

The Bay Area's largest water supply agencies are working together to develop a regional solution to improve the water supply reliability for over 6 million area residents and the thousands of businesses and industries located therein. The Alameda County Water District, Bay Area Water Supply and Conservation Agency, Contra Costa Water District, East Bay Municipal Utility District, Marin Municipal Water District, San Francisco Public Utilities Commission, Santa Clara Valley Water District and Zone 7 Water Agency have joined forces as Partner Agencies to leverage existing facilities and, if needed, build new ones to bolster regional water supply reliability. The Partner Agencies are providing funding for the development of the Bay Area Regional Reliability Drought Contingency Plan (Plan) and have also received a grant from the U.S. Bureau of Reclamation.

Stakeholder engagement is an important element of the development of the Plan and the Partner Agencies are convening a Task Force to provide an opportunity for stakeholders to participate in meaningful engagement on the development of the Plan and provide feedback at key milestones. The Partner Agencies would like to invite a representative (and an alternate) from Bay Area Clean Water Agencies (BACWA) to participate in the Task Force. As the regional voice for clean water agencies in the Bay Area, BACWA participation in the Task Force will ensure that recycled water projects are considered in the development of the Plan. The Plan may consider expansion of existing programs or new projects that provide recycled water to landscape irrigation customers, expansion of existing programs or new projects that provide recycled water to large industrial customers, and the development of new indirect and direct potable reuse projects.

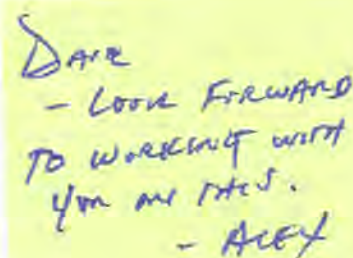
A kickoff workshop will be held among Task Force members to describe expectations for participation, schedule, work products, etc. Two additional Task Force workshops will be held to solicit feedback and comments on technical memoranda and the Draft Plan. Task Force meetings will be scheduled during the period of March 2016 through June 2017 and the Final Plan is scheduled for completion in September 2017.

We appreciate your consideration and hope BACWA will accept the invitation to participate in the Task Force. If you have any questions please feel free to contact me at (510) 287-0101.

Sincerely,



Alexander R. Coate



Done
- Look Forward
to working with
you on this.
- Alex

Sherry Hull

From: Sherry Hull
Sent: Tuesday, February 2, 2016 11:14 AM
To: Sherry Hull
Subject: FW: (AWT Certification Committee) Next AWT Meeting - Feb. 10 at SDCWA

From: Bobbi Larson [<mailto:blarson@casaweb.org>]
Sent: Monday, February 1, 2016 3:29 PM
To: Dave Williams
Cc: Ben Horenstein
Subject: FW: (AWT Certification Committee) Next AWT Meeting - Feb. 10 at SDCWA

I meant to ask you about this... Do you think BACWA might want to have someone attend? Traci Minamide and Vicki Conway are attending on behalf of CASA. If so, let me know and we'll reach out to the organizers.

Thanks,

Bobbi Larson
Executive Director
CASA
1225 8th St, Suite 595
Sacramento, CA 95814
Office : 916.446.0388 ext 101
Cell : 916.798.7488

 www.casaweb.org



From: Elizabeth Allan <EAllan@cwea.org>
Date: Sunday, January 24, 2016 at 2:14 PM
To: Vicki Conway <vconway@lacs.org>, Traci Minamide <traci.minamide@lacity.org>, "Carrie Mattingly" <cmatting@slocity.org> <cmatting@slocity.org>
Cc: Phil Scott <pscott@westbaysanitary.org>, "Garry Parker" <gparker@encinajpa.com> <gparker@encinajpa.com>, Roberta Larson <blarson@casaweb.org>, "Chris Lundeen, CAE" <CLundeen@cwea.org>, Alec Mackie <amackie@cwea.org>
Subject: FW: (AWT Certification Committee) Next AWT Meeting - Feb. 10 at SDCWA

Hi, Vicki, Traci, and Carrie...I enjoyed seeing you all at the CASA conference last week. And, I was delighted to learn that each of you would be interested in contributing to the CA NV AWWA Advanced Water Treatment (AWT) Certification Committee...at least to the level of attending the Committee's Feb 10th meeting in San Diego. I've touched base with CWEA President Phil Scott and President-Elect Garry Parker and we'd love to take you up on your offer to participate.

I've proposed the three of you to CA NV AWWA ED Tim Worley and given him your contact information so that he (or the Committee Chair) can contact you directly with a meeting invitation and an invitation to Basecamp (the web space

the Committee uses for communication and document storage). The Feb 10th meeting promises to be a crucial one as the Committee will be discussing survey results and next steps.

The message below from Committee Chair Angela Cheung (Santa Clara Valley Water District) includes the meeting time and location. While there is a go-to-meeting participation option it really would be optimal to be at the meeting in person if you can manage it. I'll be there, along with CWEA's Director of Certification Chris Lundeen and our Communications & Marketing Directors Alec Mackie.

I'll check in with Tim later this week to make sure all is on track for your invitations. Meanwhile, please pencil in the date.

Many thanks,
Elizabeth

=====
Elizabeth Allan, FASAE, CAE
Executive Director
California Water Environment Association
7677 Oakport Street, Suite 600
Oakland, CA 94621-1951
T: 510.382.7800 x 101
F: 510.382.7810
eallan@cwea.org
www.cwea.org

*Protecting our water environment
through education and certification.*

From: Angela Cheung (Basecamp) [<mailto:notifications@basecamp.com>]
Sent: Friday, January 22, 2016 1:15 PM
To: Elizabeth Allan <EAllan@cwea.org>
Subject: Re: (AWT Certification Committee) Next AWT Meeting - Feb. 10 at SDCWA

Write ABOVE THIS LINE to post a reply or [view this on Basecamp](#)



Angela Cheung posted a comment about this message on Basecamp.

Re: Next AWT Meeting - Feb. 10 at SDCWA

Our next meeting is on February 10 from 10 am - 2 pm. We are going to discuss the survey results and next steps. Agenda will follow. Please note the location and meeting call-in info posted on November 17, 2015, also copied below.

The meeting will be held at the Headquarters of the San Diego County Water Authority.
Address is 4677 Overland Ave., San Diego, CA 92123

We hope most of you can join us in person. However, if you can't, here's the GoToMeeting info.
<https://global.gotomeeting.com/join/529437501>
You can also dial in using your phone.
United States +1 (408) 650-3123
Access Code: 529-437-501

Hope you can join us in person.

Angela

[View this on Basecamp](#)

This email was sent to: Jack Bebee, Brian Bernados, robert brownwood, Christiana Daisy, Bill Dunivin, Tom Knoell, Al Lau, Cheryl Lester, Paul Liu, Brian MacDonald, Erin Mackey, Bruce Macler, Maria Mariscal, Scott McClelland, Jeff Mosher, eric owens, Mehul Patel, Darrin Price, Becky Rathbone, Toby Roy, Kevin Ryan, Tai Tseng, Troy Walker, Charles Wulff, Yan Zhang, Marsi Steirer, Gordon Williams, Tim Worley, Annette Caraway, cynthia lane, Ken Mercer, Justin Mattingly, jminton@watereuse.org, Steven Garner, Pam John, Tom Georgi, Suzanne Faubl, Bart Weiss, LuT@bv.com, denise.lahmann@doh.wa.gov, Ellen McDonald, Austa Parker, Elizabeth Allan, Chris Lundeen, Fred Gerringer, Khos Ghaderi, and Angela Cheung.

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February 19, 2016

commentletters@waterboards.ca.gov

State Water Resources Control Board

Clerk to the Board

Subject: Comment Letter – General Order for Recycled Water Use

To Whom It May Concern:

The Bay Area Clean Water Agencies (BACWA) appreciates the opportunity to comment on the January 2016 Draft General Order for Recycled Water Use. BACWA is a joint powers authority, comprised of public utilities providing sanitary sewer services to 6.5 million people in the nine county Bay Area. BACWA is dedicated to working with our member agencies, the state and federal governments, as well as non-governmental organizations to deliver the best information about the water quality and enhancement of the San Francisco Bay (see <http://bacwa.org/members/> for a list of BACWA agencies). An important element of BACWA's work includes providing a regional forum to share recycled water information and expertise to support and advance Bay Area recycled water projects and programs. BACWA encourages the State Water Resources Control Board (SWRCB) to consider all comments that promote and facilitate the implementation of recycled water projects while protecting public health and the environment.

BACWA has reviewed the Draft General Order and has the following comment:

Finding 34, Purpose and Applicability, Page 15

Water recycling agencies in the Bay Area are provided coverage under existing Water Reuse General Order No. 96-011 and would like the option to remain with the proven and effective Order No. 96-011 for existing, expanded and new projects; with the option to "opt in" to the proposed statewide general permit should they elect to do so. The Notice of Public Hearing for the proposed General Order states that it will be used "to streamline permitting" of recycled water use. In the San Francisco Bay Region, the most effective way to streamline permitting of recycled water use, and thereby encourage greater recycled water use is to allow for continued use of Order No. 96-011 for current and new recycled water projects. To do otherwise would create a confusing and complex two tier permitting system where some recycled water projects may be regulated under one general permit and others under another general permit, all within the same Region.

To avoid this potential outcome, BACWA proposes that Finding 34 of the proposed General Order be revised to state "Existing as well as future dischargers that are currently or could be covered under other existing orders (e.g. water reclamation requirements, master reclamation permits, general or individual waste discharge requirements, or waivers of waste discharge requirements) may: (i) continue to operate

their projects under that authority as well as seek coverage under that authority for expansion of projects and/or for any new projects or; (ii) apply for coverage under this General Order.”

Bay Area agencies have a long history of operating under GO 96-011 issued by Region 2 (San Francisco Bay Regional Water Quality Control Board) and worked cooperatively with Region 2 staff on drafting the document which has significantly expanded the use of recycled water in the Bay Area. Presenting additional hurdles for new water recycling projects, which are urgently needed especially during severe drought periods, is not in the best interest of recycling agencies, the state, or the public.

BACWA appreciates your consideration of our comment on the Draft General Order for Recycled Water Use, and urges the SWRCB to consider additional revisions to the draft. If you have any questions regarding our comments, please contact me at dwilliams@bacwa.org.

Sincerely,

David R. Williams
Executive Director

cc: BACWA Executive Board
Rhodora Biagtan, BACWA Recycled Water Committee Co-Chair
Leah Walker, BACWA Recycled Water Committee Co-Chair
Lorien Fono, BACWA Regulatory Program Manager
Steve Moore, Board Member, State Water Resources Control Board
Bruce Wolfe, Executive Officer, Region 2 - San Francisco Bay Regional Water Board

Sherry Hull

From: Sherry Hull
Sent: Friday, February 12, 2016 4:12 PM
To: Sherry Hull
Subject: Follow-up call with Claire Waggoner on Prop 1

Subject: Followup call with Claire Waggoner on Prop 1

Date: Mon, 8 Feb 2016 11:49:23 -0800

From: Meg Sedlak <meg@sfei.org>

To: Lorien Fono <lfono@bacwa.org>, Phil Trowbridge <philt@sfei.org>, karin.north
<karin.north@cityofpaloalto.org>, Davis, Jay <jay@sfei.org>, Sutton, Rebecca <rebeccas@sfei.org>

CC: Warner Chabot <warnerc@sfei.org>

Hi Lorien,

I had another quick call with Claire to discuss several of the points that you brought up on our call last week regarding Prop 1 funding.

First off, it sounds very much like this is a work in progress. Claire stated that there are no current RFPs and they do not have a date when the RFP will be issued. Their division chief recently retired and they are currently working with the new one to develop a strategy for disbursement of funds. As I mentioned before the staff is planning on bringing forward recommendations to the Board in the Spring. She stressed that they are very interested in distributing the funding in a timely manner.

The goal of Prop 1 is to encourage recycled water usage in California. To that end, she felt that the topics that are of particular interest to BACWA such as nutrients, toxicity, and salinity in RO concentration would be of interest to the Board (e.g., use of wetlands to treat RO concentrate).

With regard to % match, again because the RFP has not been developed, she could not say with certainty but thought that there would be a requirement for match/in-kind.

She recommended registering on the State's list serve

- http://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml - under water recycling fund. (I am sure you all have done this already.) She also clarified that the three projects funded to date were with WRF not NWRI (partial funding from WB). Not sure if you all are members but she mentioned that they were project nos. 1508 and 1501. She couldn't remember what the third was. If you do have access, I would be interested in seeing the project descriptions.

I will plan on checking in with Claire in late April to see how the Board meeting went and what the staff recommendations were. I will keep you all posted.

Regards,

Meg

Meg Sedlak

Senior Program Manager
San Francisco Estuary Institute
4911 Central Avenue
Richmond, CA 9480
(510) 746-7311
E-mail: meg@sfei.org
Web site: www.sfei.org

Sherry Hull

From: Sherry Hull
Sent: Monday, February 15, 2016 10:40 AM
To: Sherry Hull
Subject: BAAQMD climate Conference

From: Dave Williams
Sent: Friday, January 29, 2016 1:24 PM
To: 'Mike Connor'; Julia Levin; Sarah A. Deslauriers; Hake, John; Martha Davis; gkester@casaweb.org; Zipkin, Jacqueline; Bobbi Larson; Adam Link
Subject: RE: BAAQMD climate Conference

I have been following the email strings on BAAQMD's desire to have a conference and include a panel discussions on 1) organic waste diversion - benefits and opportunities for the Bay Area, and 2) the role of POTW's in meeting the Bay Area's climate and air quality goals. I understand that the BAAQMD wants to be a leader state-wide and may go further on regulations than CARB itself. Since they are the Bay Area Air District and want the discussion to be Bay Area focused, does it make sense to have the POTWs reps on a panel discussion actually say they represent the BACWA POTWs rather than individual agencies in the Bay Area?

I think EBMUD, CMSA, and others that Greg K. mentions are good candidates for the panel but by saying they represent the entire Bay Area POTW community their comments would probably carry more weight than simply stating what their own agencies are doing. I think it would be easy enough to make the statement that they represent the entire Bay Area POTW community by simply having each POTW panel member share their presentations with the broader BACWA members including the Air Committee and seek any input. I imagine BACWA folks would support the presentations and have little comments since the panel members would be the leading agencies in terms of innovative practices but by seeking the input of the broader BACWA membership the POTW panel members could then state that their presentations represent concepts that the entire POTW community in the Bay Area embrace.

Let me know what you think.

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

-----Original Message-----

From: Mike Connor [mailto:mconnor@ebda.org]
Sent: Thursday, January 28, 2016 3:03 PM
To: Julia Levin; Sarah A. Deslauriers; Hake, John; Martha Davis; gkester@casaweb.org; Zipkin, Jacqueline; Dave Williams; Bobbi Larson; Adam Link
Cc: Dave Williams
Subject: RE: BAAQMD climate Conference

This would be a perfect agenda to pitch the funding opportunities for Carbon Trading funds. I'm not aware that that is within the purview of BAAQMD. For them, it seems we'd like to be more focused on the regulatory and institutional constraints that would allow us to reduce our carbon footprint. These issues include the links with the Water Board on nutrient treatment, the links to recycled water, the banning of siloxanes, marketing biogas as fuel or getting it into the pipeline system.

-----Original Message-----

From: Julia Levin [mailto:jlevin@bioenergyca.org]

Sent: Thursday, January 28, 2016 2:51 PM

To: Sarah A. Deslauriers; Hake, John; Martha Davis; Greg Kester; Zipkin, Jacqueline; dwilliams@bacwa.org; Mike Connor; Bobbi Larson; Adam Link

Subject: RE: BAAQMD climate Conference

Thanks, all, for the quick feedback. I've tried to incorporate Greg's and Sarah's suggestions and divide the topics and speakers into two panels. Please let me know what you think about this approach. I'd like to send it to Lisa by end of the day tomorrow.

Thanks again,
Julia

-----Original Message-----

From: Sarah A. Deslauriers [mailto:SDeslauriers@carollo.com]

Sent: Thursday, January 28, 2016 2:24 PM

To: Hake, John <jhake@ebmud.com>; Martha Davis <mdavis@ieua.org>; Julia Levin <jlevin@bioenergyca.org>; Greg Kester <gkester@casaweb.org>; Zipkin, Jacqueline <jzipkin@ebmud.com>; dwilliams@bacwa.org; Mike Connor <mconnor@ebda.org>; Bobbi Larson <blarson@casaweb.org>; Adam Link <alink@casaweb.org>

Subject: RE: BAAQMD climate Conference

I too think this looks very good - really like Greg's additions and support having two sessions. I think it makes sense to add other technologies in the mix (as Greg suggests) and, if this carries forward, would be beneficial for us to coordinate the presentations so we provide consistent information and clear connections to the driving policies. I know the audience can get confused when it comes to POTWs, so this could be a great opportunity to provide some clarity and further build relationships in the Bay Area.

-----Original Message-----

From: Hake, John [mailto:jhake@ebmud.com]

Sent: Thursday, January 28, 2016 2:12 PM

To: Martha Davis <mdavis@ieua.org>; Julia Levin <jlevin@bioenergyca.org>; Greg Kester <gkester@casaweb.org>; Sarah A. Deslauriers <SDeslauriers@carollo.com>; Zipkin, Jacqueline <jzipkin@ebmud.com>; dwilliams@bacwa.org; Mike Connor <mconnor@ebda.org>; Bobbi Larson <blarson@casaweb.org>; Adam Link <alink@casaweb.org>

Subject: RE: BAAQMD climate Conference

Looks very good to me. Lots of material for BAAQMD to think about and choose from here. EBMUD will be glad to support and present on a panel.

John

-----Original Message-----

From: Martha Davis [mailto:mdavis@ieua.org]

Sent: Thursday, January 28, 2016 2:10 PM

To: Julia Levin; Greg Kester; Sarah A. Deslauriers; Zipkin, Jacqueline; dwilliams@bacwa.org; Hake, John; Mike Connor; Bobbi Larson; Adam Link

Subject: RE: BAAQMD climate Conference

I like the idea of the two panels....and think it will be a great conference to attend.

Good job.

M

From: Julia Levin [jlevin@bioenergyca.org]
Sent: Thursday, January 28, 2016 2:09 PM
To: Greg Kester; Sarah A. Deslauriers; Zipkin, Jacqueline; dwilliams@bacwa.org; Martha Davis; Hake, John; Mike Connor; Bobbi Larson; Adam Link
Subject: RE: BAAQMD climate Conference

Thank you, Greg and Sarah. I'll combine both your recommendations and see suggest two panels at the conference. Does it make sense to divide the two panels into 1) organic waste diversion - benefits and opportunities for the Bay Area, and 2) the role of POTW's in meeting the Bay Area's climate and air quality goals? There would be a little overlap between the two, but that's not a bad thing. Also, Lisa was very clear that everything has to be Bay Area focused.

Let me know what you all think, and thank you again for the quick responses.

Best,
Julia

From: Greg Kester [mailto:gkester@casaweb.org]
Sent: Thursday, January 28, 2016 1:52 PM
To: Julia Levin <jlevin@bioenergyca.org>; Sarah A. Deslauriers <SDeslauriers@carollo.com>; Zipkin, Jacqueline <jzipkin@ebmud.com>; dwilliams@bacwa.org; (mdavis@ieua.org) <mdavis@ieua.org>; Hake, John <jhake@ebmud.com>; Mike Connor <mconnor@ebda.org>; Bobbi Larson <blarson@casaweb.org>; Adam Link <alink@casaweb.org>
Subject: RE: BAAQMD climate Conference

Thanks a lot Julia. I think this is a tremendous opportunity for us. I would recommend a longer panel (or two of them) and suggest the changes below (I copied yours and added to them here):

1. BAC - Overview of policy drivers and benefits of organic waste to energy
2. CASA - Overview of opportunities provided by the wastewater sector to help state meet its climate change objectives; including diversion of organic waste, LCFS, Interconnection, healthy soils, regulatory changes, etc.
3. EBMUD and/or CMSA (would really recommend them both) - Example of Bay Area POTW's receiving hauled in organic waste
4. San Mateo and/or Las Gallinas Valley - The only two wastewater plants in the state under construction to convert biogas into low carbon transportation fuel.
5. Napa SD - Update on the performance of a Tesla battery for storing excess power produced from biogas. It allows Napa to assist PG & E with peak demand periods by going off the grid.
6. South San Francisco Scavenger company - project using diverted organic waste to fuel its garbage trucks and producing/using the lowest carbon gas anywhere in the state (negative 31 grams of CO2/MJ)
7. Silicon Valley Clean Water - update on innovative BioForceTech biosolids dryer and pyrolysis technology
8. Bay Area Biosolids to Energy Coalition - Update on their efforts and demonstration project

9. Biogas developer - air quality and other permitting challenges
Thanks again very much and please let me know how I can help. - Greg

Greg Kester
California Association of Sanitation Agencies Director of Renewable Resource Programs
1225 8th Street, Suite 595
Sacramento, CA 95814
PH: 916 446-0388
Mobile: 916 844-5262
gkester@casaweb.org<mailto:dwelch@casaweb.org>
Ensuring Clean Water for California

[cid:image001.png@01D159D5.8CD94390]

From: Julia Levin [mailto:jlevin@bioenergyca.org]
Sent: Thursday, January 28, 2016 1:21 PM
To: Sarah A. Deslauriers; Zipkin, Jacqueline; Greg Kester; dwilliams@bacwa.org<mailto:dwilliams@bacwa.org>;
(mdavis@ieua.org<mailto:mdavis@ieua.org>); Hake, John
Subject: BAAQMD climate Conference

All,
I received a call today from Lisa Fasano at BAAQMD - I had left them a message just before the CASA meeting on Tuesday to ask who was spearheading the conference and where to send a proposal for a panel. Lisa wanted to know more about what we'd like to propose and seems very interested in a panel to discuss organic waste diversion, opportunities for Bay Area POTW's to take the waste, benefits of biogas, etc. I just sent her the presentation that I gave to a recent CSAC conference (attached), the CASA/EBMUD assessment of POTW capacity to take organic waste and the draft strategy to reduce Short-Lived Climate Pollutants (to show that the state is calling for the elimination of organic waste in landfills by 2025).

Lisa said they have a conference brainstorming session next week and will raise this suggestion. She promised to get back to me toward the end of next week with follow up questions. It would be good if we could refine/write-up an actual panel proposal before then. It might be something like:

1. BAC - Overview of policy drivers and benefits of organic waste to energy
2. CASA/EBMUD - Example of POTW and potential for Bay Area POTW's to take more organic waste
3. South San Francisco Scavenger company - project using diverted organic waste to fuel its garbage trucks and producing/using the lowest carbon gas anywhere in the state (negative 31 grams of CO2/MJ)
4. Biogas developer - air quality and other permitting challenges

What do you think?

Thanks,
Julia
Julia Levin
Executive Director
Bioenergy Association of California
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510-610-1733

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BAPPG Committee Report to BACWA Board

Meeting Date: February 3, 2016
Prepared By: Lorien Fono, BACWA RPM
BAPPG Chair: Robert Wilson

31 attendees representing 20 member agencies.

Committee Notes are available [online](#).

Committee Updates from BAPPG's General Committee Meeting on February 3, 2016:

- **CECs Action Plans** – Water Board Staff have developed action plans for the moderate-concern CECs: PBDEs, PFOS, nonylphenols, and fipronil. The Regional Water Board would still like POTWs to provide lists of management action for other CECs based on possible future risk. Palo Alto has developed some material that they will share with the Regional Water Board, if applicable.
- **Private Sewer Lateral Presentation** Angelee Strawder of EBMUD gave a [presentation](#) on the agency's private sewer later replacement program. EBMUD runs the program for all of its satellite collection systems except for the City of Berkeley. They have certified the repair/replacement of five thousand laterals per year, and 19 thousand since the beginning of the program. It has been difficult to gauge the success of the program since the previous four years have been dry. Angelee discussed EBMUD's discontinued rebate program and its challenges. The next steps for their program include outreach to Homeowners Associates, as well as condition assessments for laterals that are greater than 1,000 feet long.

There was a discussion about the City of Richmond's program, which targeted industries. There were many leaks in low-lying areas near Bay waters, and the sewer was completely eroded away in some areas, so the industries incurred millions of dollars in costs for repairs. After the repairs, the treatment plant dropped from a flow of 8.5 MGD to 5.5 MGD, and the industries recouped some of their costs via reduced treatment plant fees.

- **Roundtable Discussion on Outreach Campaigns** - The committee has been shifting its efforts from public outreach/education to regulatory and legislative engagement. It makes the most sense for agencies to pool their pollution prevention resources to get the best value from outreach campaigns. Some examples are as follows:
 1. The Kid Friendly app by the SA Water - <https://www.youtube.com/watch?v=zmnZTaUa2bY>
 2. Central San's Kid Friendly video - <https://www.youtube.com/watch?v=mjPuygozntw>
 3. DSRSD Vehicle Wrap Example
- **Fipronil Reregistration** - Fipronil's reregistration is being opened early by EPA because of new toxicity data. Wastewater has gotten on the EPA's radar for monitoring, and data show that during treatment, the pesticide, where removed from the dissolved phase, is simply being partitioned to biosolids.
- **BAPPG Annual Report** - The [2015 Annual Report](#) is now available and posted on BACWA's website.

Date of Next BAPPG Meeting

BAPPG Steering Committee Meeting

March 9, 2016, 9:00am

Conference Call

Teleconference Number: 605-475-4350

Participant Code: 1210113#

BAPPG General Meeting

April 6, 2016: 10:00am-12:00pm

1515 Clay Street, Second Floor, Room 12

Oakland, CA

Biosolids Committee – Report to BACWA Board

Biosolids Committee meeting on: January 21, 2016
Executive Board Meeting Date: February 19, 2016
Committee Chair : Karla Guevarra and Alicia Chakrabarti

Committee Request for Board Action: None.

Agenda Item: Biosolids Usage Updates (All)

- Karla Guevarra announced that the TPAD system at the Oceanside WWTP started up this week.
- Silicon Valley Clean Water (SVCW) sends biosolids to Synagro now but will send half their biosolids to the Bioforce facility once it is operational.

Agenda Item : Committee Direction

- Alicia Chakrabarti noted that the committee has focused in the last year on touring area facilities with new solids handling equipment, but these opportunities are waning.
- A natural progression would be for the group to conduct up to two facility tours per year and hold the remaining meetings at alternating, central locations.
- This year the following facilities will be constructed and available for touring:
 - Bioforce full scale facility at SVCW
 - Lystek at Fairfield Suisun Sanitary District
 - TPAD at SFPUC's Oceanside facility
- Group discussed info sharing online. It was noted that the BACWA website is being revamped. The issue of the listserve not being visible to the committee chairs will be fixed soon. One of the other committees uses Google groups as a communication platform. For information sharing, success would likely depend on a gatekeeper who moderates the participants.

Agenda Item: FOG/Food to Energy (F2E) Station Tour

- Robert Cole and Mary Jo Ramey of CMSA gave a presentation regarding the FOG/Food to Energy (F2E) program.
 - The F2E program currently has 134 restaurants participating out of a target maximum of 250.
 - Restaurants dispose of pre-consumer food waste through the Marin Sanitary Service collection service.
 - Material is pre-processed at the Marin Sanitary Service center
 - Marin Sanitary trucks the material to CMSA where it is then mixed with FOG in the tank with chopper pumps for additional processing and then through a rock trap grinder and to the paddle finisher.
 - The daily average FOG loading is approximately 10,000 gallons per day and food waste 6.5 tons/day.
 - The program includes monitoring of digester performance. Digester gas generation has increased since the addition of FOG and food waste, with no detrimental effect to digester chemistry.
 - There has been no notable increase to the amount of digestate as a result of the program.
 - The success of the program is due in part to the public-private partnership with Marin Sanitary Service.
- The group toured the CMSA FOG/F2E Station, which includes a blend tank, chopper pumps, rock trap grinder, paddle finisher, and odor scrubber.

Next BACWA Biosolids Committee Meeting: April 21, 2016 at Fairfield-Suisun Sanitary District (Lystek facility)

Attendees:

Name/Title	Agency
Tracy Chouinard	Avila Consultants
Robert Cole	Central Marin Sanitation Agency
Mary Jo Ramey	Central Marin Sanitation Agency
Irina Lukicheva	CH2MHill
Alicia Chakrabarti	East Bay Municipal Utility District
Rebecca Overacre	East Bay Municipal Utility District
Gerardo Aguirre	Sacramento Regional Wastewater Treatment Plant
Debra Buckmann	Sacramento Regional Wastewater Treatment Plant
Karla Guevarra	San Francisco Public Utilities Commission
Arvind Akela	Silicon Valley Clean Water
Teresa Herrera	Silicon Valley Clean Water

Collection Systems Committee Report to BACWA Board

Collection Systems Committee Meeting on: 1/14/16
Executive Board Meeting Date: 2/18/16
Committee Chair: Lenny Rather

Committee Request for Board Action: None

22 attendees

Private Sewer Lateral Ordinance Survey

Several agencies have adopted ordinances or other formal policies governing private sewer lateral inspection/testing and repair. The Regional Water Board has expressed interest in finding out how many agencies have such ordinances, and in the past has looked favorably on agencies with such ordinances when considering enforcement. Agencies that are considering developing such an ordinance would benefit from information about the details of how others in the Region implement these ordinances and policies. The BACWA Collection System Committee has developed a survey to gather information about private sewer lateral ordinances (attached). At the meeting, some members expressed concern that gathering information on private sewer lateral ordinances would encourage the Regional Water Board to develop a regulatory mandate to implement them, although Board Staff have said that their interest in the data is for informational purposes only. As of February 16, 20 agencies have responded to the survey. The survey results will be shared with the BACWA Executive Board at the March meeting.

Metrics to define well performing collection system

The Regional Water Board is considering offering agencies mandatory minimum penalties as protection against third party lawsuits for SSOs, if they can demonstrate that they are "well performing" collection systems. In September 2014, BACWA submitted a proposal to the Regional Water Board that defines a well performing collection system as having a previous 3-year average annual SSO volume reaching surface water of less than 8,500 gallons per 100 miles of sewer per year (this value represents the 75th percentile SSO volume for the 113 Bay Area agencies reporting to CIWQS during the four calendar years 2010-2013). Regional Water Board staff has asked BACWA to provide an alternative definition that focuses on sewer repair/replacement programs so as to reward actions rather than favorable soil hydrogeology and other factors beyond an agency's control. This could focus on aspects of a program such as pipe replacement/repair metrics, hot spot programs, recurrent SSOs, and training. A Collections Systems Committee subgroup has been convened to strategize about how we should approach this request, define a process to follow, and engage the Regional Water Board to ensure that the group understands what they are really looking for.

News Items

- *El Niño update* - There have been no major impacts from winter storms this year. Most storms have taken place overnight and have been well spaced.
- The White house has announced a [strategy](#) for reducing national water use by one third.
- The State Water Resources Control Board (State Water Board) adopted a resolution authorizing the sale of \$1.2 billion in revenue bonds for the Clean Water State Revolving Fund.
- Congress has removed the tax-exempt bond restrictions on the Water Infrastructure Finance and Innovation Act (WIFEA)

Announcements of Upcoming Training, Conferences, and Meetings

- CWEA SF Bay Section training holds ongoing collection systems [meetings and training events](#). The next meeting was to be held on January 21.
- Maintenance Superintendents Association Meeting - Sept 5-9, 2016 at the Berkeley Marina. They also have a monthly [workshop schedule](#).

Next Collection System Committee Meeting

Our next committee meeting will be held on March 10, at 1:30 PM, at the Boy Scouts facility in San Leandro.

[Edit this form](#)

Private sewer lateral ordinance for inspection/repair survey

* Required

What is your agency's name? *

What is your agency's CIWQS ID Number? *

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

- ☐ Wastewater treatment plant only
- ☐ Collection system only
- ☐ Both wastewater treatment plant and collection system

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

- ☐ yes
- ☐ no
- ☐ not yet, but in the process of developing one

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

- ☐ No portion, all owned by homeowner
- ☐ From the main to the property line
- ☐ From the main to the curb
- ☐ From the main to the house foundation
- ☐ Other:

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

- ☐ Yes
- ☐ No

What triggers inspection or testing of the private sewer lateral?

(Skip if inspections/testing are not required) Check all that apply.

- ☐ Sale of property

- ☐ Remodel of home or other property improvement
- ☐ Change in water meter
- ☐ Requirement by your agency as the result of an SSO, rehabilitation, or other issue or problem
- ☐ Other:

What type of inspection or testing method is required?

(Skip if inspections/testing are not required) Check all that apply.

- ☐ TV
- ☐ Pressure test (water or air)
- ☐ Not specified
- ☐ Other:

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

(Skip if no ordinance or formal policy in effect)

- ☐ No time period is specified
- ☐ 6 months
- ☐ 1 year
- ☐ Other:

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

- ☐ Yes
- ☐ No

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

(Skip if your agency does not repair laterals)

- ☐ Spot repairs
- ☐ To the cleanout
- ☐ Other:

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

Click all that apply

- ☐ None
- ☐ Grants
- ☐ Loans
- ☐ Lateral Insurance Program
- ☐ Other:

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

☐ Yes

☐ No

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

Agency contact email address *

Additional Comments

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InfoShare Asset Management– Report to BACWA Board

InfoShare Asset Management Committee meeting on: 02/04/2016

Executive Board Meeting Date: 02/19/2016

Committee Chair : Dana Lawson, CCCSD

Committee Request for Board Action: None

Attendees: David Williams (BACWA); Dana Lawson, PJ Turnham (CCCSD); Aaron Johnson (DSRSD); David Stoops (EBDA); Dillon Cowan (EBMUD); Robin Gamble (Napa Sanitation District); Paul Bonitz (SFPUC); Saeed Shams (City of San Jose WPCP); Felicia James, Rob Grantham (Carollo Engineers)

Introductions: <ul style="list-style-type: none">Attendees introduced themselves (see above).
Presentation: <ul style="list-style-type: none">Condition Assessment of Pumping Stations (Dillon Cowan, EBMUD)<ul style="list-style-type: none">Staff defined the extent of the assessment and level of detail; considered staff expertise, availability and scheduling; approach included a multi-disciplined team (ops, maint, and engineering), mostly in-house with some specialty work contracted out; comprehensive evaluation of entire pumping station included simple visual assessment, basic functional test, interview of staff; CMMS audit for inventory, PM plan, trends in WO history; exercised gates and valves; evaluated data to prioritize and recommend capital replacements; also included O&M recommendations.
Discussion: <ul style="list-style-type: none">Lifecycle/ service life estimates for assets<ul style="list-style-type: none">Sample data provided from: EBDA, CCCSD, EPA asset management seminar, WERF SIMPLE toolDavid Stoops shared sample data with the group, explained how he uses his spreadsheet for budgeting (3 year rolling budget, up to 30 year budget).Dana Lawson shared sample data with group from CCCSD, explained how some assets were adjusted beyond industry standards because redundant assets share runtime. For example, CCCSD has A- and B-side power distribution systems and breakers installed with the plant expansion in the late 70s are now under-going a class 1 reconditioning instead of a replacement. Industry standard is about a 20 year service life, however we've adjusted ours to 40 years then reconditioning to extend the service life further.Group also discussed how to account for rehab cycles instead of full replacement cost, what assets can be rehabbed, at what cost and for what extension of service life (will be discussed more in the future).
Suggestions for Future Agenda Items: <ul style="list-style-type: none">Comprehensive schedule for condition assessment of all asset classesReplacement versus asset cost estimatingModifying planned maintenance schedules based on condition assessments, optimizing maintenance (may be more appropriate for maintenance infoshare group)
Next Regular Meeting: <ul style="list-style-type: none">May 2016 at DSRSD with a presentation by David Stoops for estimating long-term capital budgets and Felicia James for Reva software as a tool for long-term capital budgeting.Dana Lawson will follow-up with DSRSD, David Stoops and Felicia to coordinate date in May.
Next BACWA <u>InfoShare Asset Management</u> Committee Meeting: <u>May 2016</u>, at <u>DSRSD</u>.

Laboratory Committee – Report to BACWA Board

Laboratory committee meeting on: 10 February 2016
Executive Board Meeting Date: February 2016
Committee Chair : Nirmela Arsem

Committee Request for Board Action: None

Environmental Laboratory Accreditation Program (ELAP) update :

- The new by-laws governing Environmental Laboratory Technical Advisory Committee (ELTAC) were released on 04 February 2016. Nominations for ELTAC membership are open till February 12.
- ELAP fee increase by 57% became effective 2 February 2016. The fee schedule was published on 08 February 2016.
- ELAP announced that they will hold three webinars exploring the options for developing or adopting standards for auditing. Options are: developing a new set of standards for ELAP, adopting TNI standards or a hybrid of the two. The webinars will take place on March 9, 16 and 23.
- Four BACWA lab committee members will be attending a one day workshop hosted by CWEA on March 3, to better understand TNI standards.

Audits:

- The feedback from laboratory audits is that audit standard still varies depending on the auditor; laboratories that test only wastewater samples do not have site audits; response to audits are required in a short time, as low as three days. Auditors are also requiring that MDL studies be conducted at various times of the day to account for variability associated with the time of the day. Some auditors are also asking for MDL study spikes to have recoveries between 50-150%.

Microplastics update:

- Members shared the progress made in developing the microplastics method. Increasing the amount of concentrated sulfuric acid appears to clarify the digestate. Allowing the digestion to proceed without heating for 3-4 days also appears to be effective means of removing organic material. Oven drying appears to be prone to contamination. One experiment creating a 'blank spike' using standard microbeads resulted in 89% recovery.

General discussions:

- City of San Jose is recruiting for three laboratory technicians; closing date is February 12.
- SFPUC is recruiting for Organics supervisor; application period is closed.
- CCCSD has installed a Skalar segmented flow analyzer capable of analyzing nitrate, nitrite, ortho phosphate, chloride and cyanide. Initial demonstration of capabilities (IDOC) is in progress.
- Members expressed interest in a laboratory safety and hazardous material management training.

Upcoming meetings, conferences, etc.:

- NorCal SETAC annual meeting April 27-28, Oakland, 1301 Clay St.
- AWWA Cal-Nevada conference: March 21-24, Sacramento
- CWEA annual conference, April 26-29, Santa Clara Convention Center

Next BACWA Laboratory Committee Meeting: March 9; Vivien Malig, Certification Manager of CWEA will be talking about program improvements.

Committee Request for Board Action: None

14 attendees, representing 10 member agencies

Adoption of Permits/Permit Amendments:

March - Calistoga – Calistoga has high antimony concentrations along with a couple of trihalomethanes. Spas are a significant source, since many of the older spas that get water from the wells do not have valves to shut down the flow from artesian wells and therefore send significant flows to the sewers.

April – Petaluma – Petaluma received an Administrative Draft of their permit which included reduced BOD and TSS limits, similar to the Napa River dischargers. The rationale given was that Petaluma has advanced secondary treatment, and this reflects a performance-based approach to setting limits. There was a discussion in the committee that setting advanced secondary standards should be a Basin Planning issue, rather than policy-by-permit. However, the Tentative Order (released in February) did not reflect these reduced limits.

Microplastics

SFEI has produced a draft manuscript describing the findings from its study of microplastics in wastewater effluent and SF Bay receiving water that was presented at the State of the Estuary meeting. The permits committee had no comments on the manuscript. The RMP is forming a workgroup on microplastics and would like to set aside funds to convene an expert panel in the Summer of 2016. Nirmela Arsem (EBMUD) is BACWA's liaison to the RMP on this issue.

Monitoring Reductions

The Regional Water Board has developed a tentative order for an alternative monitoring program where agencies can reduce their monitoring in exchange for a fee that is paid to the RMP. The fee per reduced test and minimum monitoring frequency is as follows:

- Sensitive species screening requirement - \$30,000/test; remove requirement
- Dioxin (Method 1613) - \$1,000/test; frequency reduced to once per permit term (they are open to dropping dioxin if BACWA compiles all dioxin data since 1990)
- Pesticides and PCBs (Method 608) - \$230/test, frequency reduced to once per permit term
- VOCs (Method 624) - \$295/test, frequency reduced to once per permit term (once per year for agency with limits)
- BNAs (Method 625) - \$545/test, frequency reduced to once per permit term (once per year for agencies with limits)

The Tentative Order lists the surcharge for each agency, calculated based on the cost per each test that would be charged by a contract laboratory, and the reduction in testing frequency for that agency. ***It is imperative the all agencies review the Tentative Order to verify their monitoring frequencies listed in Tables F-2 and F-3.*** Agencies would be covered under this permit on a five-year basis, although the RMP fee increase would be annualized. The RMP will send an invoice that includes the fee, and agencies can opt out and continue their permitted monitoring frequencies if they prefer. BACWA submitted a comment letter recommending 1) changes in when to report which agencies are participating in the alternative monitoring permit, 2) reduction in PCB Congeners monitoring via 1668C upon reissuance of the PCB/Mercury Watershed permit, and 3) that agencies that opt in should have a fixed cost for the five-year opt-in period.

Nutrients

- *Data Reporting*

- Under the nutrient watershed permit, permittees have been reporting soluble reactive phosphorus results under various names, which complicates data compilation for annual reporting. The Regional Water Board has sent out a [letter](#) to dischargers specifying that soluble reactive phosphorus must be reported in CIWQS as dissolved orthophosphate (as P). This requirement is effective starting with the January 2016 monitoring report (due March 1, 2016)
- The Regional Water Board has sent out a [letter](#) to dischargers clarifying that effluent monitoring locations in NPDES permits should only represent flows to waters of the United States. Non-NPDES flows (e.g., Title 22 recycled water, treated effluent applied to land or held in storage for eventual land application, and internal recycle streams) must be reported separately in accordance with the permits that regulate those discharges. This clarification will better allow the Regional Water Board and other stakeholders to calculate loads of pollutants that are discharged, rather than diverted via recycled water or other flows.
- *Recycled Water* – The consulting team will be requesting information from agencies about their 2015 recycled water use, as well as plans to increase recycled water use in the future. The information will be used to estimate nutrient loads removed through consumptive use. Future recycled water plans will be categorized as either “budgeted”, “master planned”, or “conceptual”.
- *Optimization/Upgrade Studies* – The consultant team will be circulating reports for each facility. These facility reports will be used as appendices for the Group Final Report. Agency Points of Contact will need to sign off on their facility report before it is included in the Final Report, a draft of which is expected in Summer, 2016.

Announcements

- *BACWA Annual Members Meeting, January 15* - It was requested that BACWA take and distribute notes on the regulators' presentations since they don't typically provide Power Point presentations.
- *Proposition 1* - BACWA may collaborate with the Regional Water Board and SFEI to develop a proposal to secure some Proposition 1 funds to study reverse osmosis concentrate management for IPR and other recycled water projects.
- *NPDES Compliance Letter* - BACWA submitted the annual [NPDES compliance letter](#) (attached) to the Regional Water Board on January 22. This letter can be incorporated by reference into agencies' Annual Reports.

Report out from the 12/18 Executive Board meeting

The following discussions from the Executive Board meeting were summarized

- Microplastics – covered above
- HDR gave a presentation updating the Board on their progress on the Optimization and Upgrade Studies.
- Darcy Luce of the San Francisco Estuary Partnership (SFEP) provided a presentation on the CCMP. The implementation actions focus on a 5-year timeframe. The initial CCMP was prepared in 2007. The CCMP update process began in 2014 and aims to finish a final draft by Spring 2016. The CCMP includes recycled water and conservation goals and non-regulatory actions. The CCMP can help with collaboration between agencies, and may help with funding. The Board commented that the document needed to recognize the importance of freshwater discharges to the environment, as well as the importance of Reverse Osmosis concentrate management. Additionally, the recycled water committee commented that the IRWM process was not the correct venue for developing recycled water plans, although they could be eventually incorporated into the IRWMP.
- Sarah Deslauriers provided an [update](#) on the California Wastewater Climate Change Group. CWCCG is now a part of CASA and is funded by CASA. They are working to identify ways that POTWs can contribute to meeting the Governor's Greenhouse Gas reduction goals, as expressed by the Climate Change Pillars. They will be engaging BACWA on a wastewater treatment process survey that will help inform a CARB study of process emissions.
- Oro Loma is piloting peracetic acid as an alternative disinfectant.

Next BACWA Permits Committee Meeting: Tuesday, March 8, 1-3pm, at EBMUD Plant Library. Regional Water Board staff to attend.



January 22, 2016

Mr. Bruce Wolfe, Executive Officer
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, 14th Floor
Oakland, CA 94612

**Subject: NPDES Permit Requirements for Receiving Water Quality Monitoring,
TMDL/SSO Support, Mercury and PCBs Watershed Permit Support, and
Implementation of Copper Action Plans**

Dear Mr. Wolfe:

I am writing on behalf of the Bay Area Clean Water Agencies (BACWA) and its members that own and operate publicly-owned treatment works (POTWs) and that have National Pollutant Discharge Elimination System (NPDES) permits to discharge to San Francisco Bay Area waters. The NPDES permits issued to these agencies impose some requirements that are most efficiently fulfilled as a group. The purpose of this letter is to report on behalf of BACWA members that those requirements are being met, including permit provisions related to: (A) Receiving Water Quality Monitoring, (B) Total Maximum Daily Load and Site Specific-Objective Support, (C) Mercury and PCBs Watershed Permit Support, (D) Copper Action Plan Support; and (E) Nutrient Watershed Permit Support.

A. Receiving Water Quality Monitoring

Various NPDES permits require that the permittees participate in the Regional Monitoring Program for Water Quality in the San Francisco Estuary (RMP), administered by the San Francisco Estuary Institute (SFEI), and established by San Francisco Bay Regional Water Quality Control Board (Regional Water Board) Resolution 92-043, adopted April 15, 1992. BACWA members have and continue to fulfill this requirement by participating in and providing funding to the RMP. A letter from SFEI, dated January 12, 2016, confirming BACWA member agencies' contributions to the RMP, is attached for reference.

B. Total Maximum Daily Load and Site-Specific Objective Support

Some POTW permits previously included a requirement that permittees report to the Regional Water Board any actions taken in support of the development of Site-Specific Objectives (SSOs) and Total Maximum Daily Loads (TMDLs) for 303(d) listed pollutants. Support for these efforts has been provided largely through support of the RMP. Cyanide samples were collected in ambient Bay waters in 2015 and the result will be compared to the cyanide SSOs in 2016.

In 2015, BACWA worked with the Regional Water Board to support the development of the North Bay and South Bay Selenium TMDLs. BACWA provided comments pertaining to our member agencies' waste load allocations designated by the North Bay Selenium TMDL, which was adopted by the Regional Water Board in November 2015.

In 2014, the RMP convened a Selenium Strategy Team and developed a Selenium Strategy in the Multi-Year Plan, and coordination within the Strategy Team continued in 2015. The new strategy includes measuring selenium in small tissue samples from sturgeon collected using non-lethal methods. In 2015, tissue samples were collected from sturgeon during non-lethal fish trawls in North Bay and during the Sturgeon Derby in Martinez. The tissue samples were analyzed for selenium to track implementation of the North Bay Selenium TMDL.

C. Mercury and PCBs Watershed Permit Support

The Mercury and PCBs Watershed Permit was reissued in 2012, and became effective on January 1, 2013¹. The reissued permit has no requirements for Mercury Special Studies. BACWA will continue to work with the RMP to develop and implement an updated mercury science strategy.

In 2015, the RMP analyzed sediment samples for mercury, methylmercury, and PCBs to provide data relative to the implementation of the TMDLs for PCBs and mercury.

In 2015 BACWA's Bay Area Pollution Prevention Group (BAPPG) continued to reach out to dental assistant and dental hygienist students to educate them about proper amalgam management and disposal. In 2015, this campaign reached approximated 297 people at 13 speaking engagements. In 2016, BAPPG will continue to provide the guest speaker to local colleges. The instructors have come to rely on these annual visits and have interwoven the BAPPG program into their instructional calendar.

The permit requires that permittees conduct or participate in programs to reduce mercury-related risks to humans from the consumption of Bay fish. In 2015 BACWA issued a request for proposals for a grant to implement a risk reduction program. BACWA convened a selection committee that awarded two grants worth \$25,000 each to the California Indian Environmental Alliance, and APA Family Support Services. Activities related to both grants began in 2015 and will be completed by 2017. BACWA will work with the grantees to provide a progress update on their risk reduction activities to the Regional Water Board in 2016.

D. Copper Action Plan

The copper action plan contained in many Bay Area POTW permits requires permittees to implement a plan to reduce copper discharges, conduct studies to reduce copper pollutant impact

¹ Waste Discharge Requirements for Municipal and Industrial Wastewater Discharges of Mercury to San Francisco Bay, Order No. R2-2012-0096; NPDES No. CA0038849

uncertainties, and implement additional measures should the three-year rolling mean in various parts of the Bay exceed site-specific concentration triggers.

In 2015, the RMP analyzed water and sediment samples for copper to provide data relative to the implementation of the Copper Action Plan. Regarding studies to reduce uncertainties in terms of the impact of copper on beneficial uses, in 2013, the RMP contracted with the National Oceanic and Atmospheric Administration Northwest Fisheries Science Center in Seattle to study the olfactory toxicity of copper on salmonids. The studies indicate that even at very high concentrations of copper in seawater ($> 100 \mu\text{g/L}$), Chinook salmon's sense of smell is not impaired. For juvenile salmon, copper concentrations up to $50 \mu\text{g/L}$ did not have impacts on the olfactory system at salinities >10 ppt. These results were published in 2015².

In addition to the measures being taken by individual agencies to reduce copper in discharges in 2015, BAPPG funded three plumbing presentations reaching approximately 300 plumbers and apprentices. At these presentations, there were significant discussions about copper pipe corrosion, flux choices, and PEX. There were also significant questions from the audience about "flushable" wipes, pharmaceuticals, and drinking water supply. In August 2015, BAPPG conducted a presentation and had a discussion with the International Association of Plumbing and Mechanical Officials (IAPMO), a professional society for building inspectors, to discuss copper versus PEX life cycle analyses and flux issues. This was the first time BAPPG presented findings regarding life cycle and worker safety issues of the two plumbing materials. The audience included building inspectors, contractors, and PVC (not PEX) distributors.

E. Nutrient Watershed Permit Compliance

The Nutrient Watershed Permit³ was adopted on April 2014, with an effective date of July 1, 2014. Through the nutrient surcharge levied on permittees, BACWA is funding compliance with the following provisions of the Nutrient Watershed Permit on behalf of its members:

- Group Annual Reporting – BACWA submitted the first Group Annual Report on November 12, 2015, after being granted an extension of the original October 1 deadline by the Regional Water Board. All the permittees under the Nutrient Watershed Permit participated in the Group Annual Report.
- Optimization and facilities upgrade studies – Studies are ongoing, but an update was provided to the Regional Water Board at BACWA's Annual Pardee Technical Seminar in October 2015. A Final Report on the studies is expected in late 2016.
- Support of scientific studies as part of the Nutrient Management Strategy – BACWA has provided \$880K to SFEI in 2015. BACWA and SFEI submitted a science implementation plan and schedule update to the Regional Water Board on February 2, 2015. An update for the 2015 calendar year will be submitted by February 1, 2016.

² Report at

http://www.sfei.org/sites/default/files/biblio_files/754%20Baldwin%20Cu%20Olfactory%20Toxicity.pdf

³Waste Discharge Requirements for Municipal Wastewater Discharges of Nutrients to San Francisco Bay, Order No. R2-2014-0014; NPDES No. CA0038873

Please contact me if you have any questions about the information contained in this letter.

Respectfully,

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

David R. Williams
BACWA Executive Director

Encl:

SFEI Letter regarding RMP Participation, January 12, 2016.

CC:

Ms. Lila Tang, NPDES Permitting Division Chief, Regional Water Board
Mr. Richard Looker, Water Resources Control Engineer, Regional Water Board
Ms. Laura Pagano, BACWA Executive Board Chair
Ms. Amanda Roa, BACWA Permits Committee Chair



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January 12, 2016

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

Dear Mr. Williams:

The Regional Monitoring Program for Water Quality in San Francisco Bay (RMP) is the only comprehensive environmental monitoring program to measure pollutants and trends in the Bay. The RMP, which began in 1993 and is still going strong, is a successful partnership of scientists, government, municipalities, and industries to understand and improve the health of the Bay.

The goal of the RMP is to collect data and communicate information about water quality in the San Francisco Estuary in support of management decisions. To that end, the RMP:

- Monitors water, sediment, and biota for toxic contaminants. In 2015, samples were collected for ambient Bay water, sediment from the Bay margins, and sturgeon fish tissue. The water samples were analyzed for a variety of chemicals, including copper and cyanide in order to determine attainment of site-specific objectives for these contaminants. Data on the full suite of California Toxic Rule pollutants were also collected to provide updated information for Reasonable Potential Analyses. Sediment samples were analyzed for mercury, methylmercury, PCBs, and copper to provide data relative to the implementation of the TMDLs for PCBs and mercury and the Copper Action Plan. Finally, tissue samples were collected from sturgeon during non-lethal fish trawls in North Bay and during the 2015 Sturgeon Derby in Martinez. The tissue samples were analyzed for selenium to track implementation of the North Bay Selenium TMDL.
- Funds special studies to answer management questions. In 2015, \$1.19 million was allocated to special studies. A large portion of these funds (\$470,000) supported research for the Nutrient Management Strategy per the Nutrient Watershed Permit. In particular, the RMP funded continuous water quality monitoring with moored sensors, high-frequency mapping of water quality in Lower South Bay, and modeling program development. Emerging contaminants continued to be a focus in 2015 with studies on fipronil, perfluorinated compounds, and microplastics in wastewater effluent. Finally, a multi-year study of the effects of copper on juvenile salmon indicated that the site-specific objectives for copper in the Bay are protective for this important species.
- Communicates findings through reports, meetings, and web tools. In 2015, the RMP released the Pulse of the Bay report (<http://www.sfei.org/rmp/pulse>), held the Annual

Meeting as part of the State of the Estuary Conference (<http://www.sfei.org/projects/rmp-annual-meeting>), and updated the CD3 online tool for downloading RMP data (cd3.sfei.org).

In 2015, 35 wastewater treatment facilities (see attached table for a complete list) collectively contributed the share of the base RMP program costs assigned to publicly owned treatment works (44%) as outlined in the Program Charter¹. This support is essential to the Program. Through these financial contributions, the RMP is able to conduct regional monitoring to assess the cumulative impact of multiple sources of pollutants to the Bay.

We thank you and your members for the support and look forward to serving you in 2016.

Sincerely,



Philip Trowbridge, PE
RMP Manager

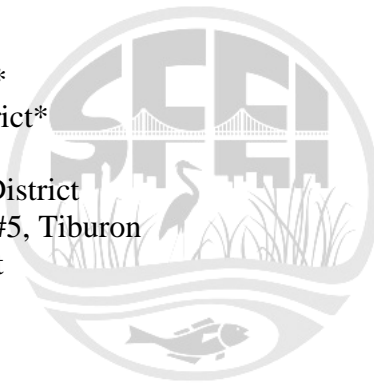


¹ http://www.sfei.org/sites/default/files/biblio_files/SF%20Bay%20RMP%20Charter.pdf

Table 1

Wastewater Treatment Facilities Contributing to the RMP in 2015

Central Contra Costa Sanitary District*
Central Marin Sanitation Agency
City of Benicia
City of Burlingame
City of Calistoga
City of Millbrae
City of Palo Alto
City of Petaluma
City of Pinole/Hercules
City of St. Helena
City and County of San Francisco, PUC*
City of San Jose*
City of San Mateo
City of South San Francisco/San Bruno
City of Sunnyvale
Delta Diablo Sanitation District
East Bay Dischargers Authority*
East Bay Municipal Utility District*
Fairfield-Suisun Sewer District
Las Gallinas Valley Sanitation District
Marin County Sanitary District #5, Tiburon
Mountain View Sanitary District
Napa Sanitation District
Novato Sanitation District
Rodeo Sanitary District
San Francisco International Airport
Sausalito/Marin City Sanitation District
Sewerage Agency of Southern Marin
Silicon Valley Clean Water
Sonoma County Water Agency
Town of Yountville
Union Sanitary District
U.S. Navy, Treasure Island
Vallejo Sanitation & Flood Control District
West County Wastewater Dist., Richmond



**Asterisk indicates BACWA Principals*

Pretreatment Committee – Report to BACWA Board

Pretreatment Committee Meeting on: 1/14/2016
Executive Board Meeting Date:
Committee Chairs: Tim Potter, Kirsten Struve

Committee Request for Board Action: None

1/14/16 Pretreatment Committee Meeting – 23 in-person attendees and 4 phone attendees representing 18 agencies and Amelia Whitson from EPA (in person)

1. BACWA Updates
<ul style="list-style-type: none">• Update on monitoring program tentative order (reduction in effluent monitoring – savings go to RMP); some reductions will affect pretreatment program reporting• Tim provided an update on nutrients
2. Committee Projects
<ul style="list-style-type: none">• Annual meeting highlights: sampling training, information exchange and mobile washer BMPs• Field pH for compliance monitoring letter to RWQCB – work ongoing• Mobile surface cleaners – committee comments due early March for discussion at next meeting in April• Sampling training review: positive feedback. Committee would like more training. Idea is training on dental program elements so that all member agencies will be better prepared to implement federal dental amalgam rule should it be finalized. Co-chairs discussed off-line the committee's capacity to host trainings and believe planning for one training per year would be a good goal.
3. Waste Hauler strategies
<ul style="list-style-type: none">• Next steps: check in with CALFOG contact, share information on haulers, share training materials• EPA is in the process of updating hauled waste guidance manual to also include resource recovery and Amelia would appreciate input.
4. Pharmaceutical standard
<ul style="list-style-type: none">• Discussion of bioengineering vs. pharmaceutical. Need to look at guidance developed for the standard.• Reformulation at pharmacies: if no wastewater is discharged or solvent used, then exempt from categorical standard.
5. Dental Amalgam Rule
<ul style="list-style-type: none">• Discussed BACWA's comments on the rule, EPA is working to address comments including administrative burden on pretreatment programs.• Scheduled to be finalized by June/July 2016; Amelia identified this deadline might not be met.• Amelia is actively participating on the EPA workgroup to develop the final rule.

<p>6. PCI/PCA priority issues</p> <ul style="list-style-type: none"> • Current focus is based on fundamental program requirements including IU inventories, adequate oversight and enforcement response, water recycling, centralized waste treatment facilities • Need for well-founded and documented technical decisions. • TTO limit discussion • Let Amelia know any examples of on-site water recycling at IUs. • Amelia identified certain issues raised during individual PCI/PCA were not identified as priority issues by USEPA Region 9. Committee members identified positive changes have been observed after Amelia started attending these meetings and hearing issues raised.
<p>7. Other</p> <ul style="list-style-type: none"> • EPA contractor calling about transportation equipment cleaning facilities: Small business related findings have to be revisited. Asked if any other agencies had this type of CIU and they would be willing to be called. • Electronic reporting rule finalized
<p>8. Next meeting: April – USD or Hayward</p>
<p>Future Meeting Topics</p> <ul style="list-style-type: none"> • Resource Template • TTO limit approach • Mobile washer: regional BMPs • Hauled waste (grease, septage) • Field pH monitoring for compliance • additional training

Committee Request for Board Action: None

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

22 attendees (including 13 on phone) representing 11 member agencies

SB 163 (Hertzberg) – Limit wastewater ocean discharges

This [Bill](#) declares ocean wastewater discharge a “waste” and requires ocean outfall facilities to achieve greater than 50% reuse by 2026, and 100% by 2036. After 2036 the Bill prohibits discharge to the ocean, except as a “backup discharge”. It requires ocean dischargers by 2020 to submit a detailed plan to the SWRCB; by 2022 permit holders may petition the SWRCB for a partial exemption for 5 years; failure of the SWRCB to adopt “IPR” (*sic*) regulations is one of the reasons for a partial exemption. [WateReuse](#) and [CASA](#) both submitted comment letters to Senator Hertzberg. BACWA commented to CASA that there is a disconnect in forcing wastewater agencies to produce and pay for recycled water in the absence of Water Agencies’ willingness or ability to accept and deliver it.

Comprehensive Conservation Management Plan (CCMP)

Darcy Luce of the San Francisco Estuary Partnership (SFEP) provided a presentation on the CCMP. The CCMP update process began in 2014 and aims to finish a final draft by Spring 2016. The CCMP includes recycled water and conservation goals and non-regulatory actions. The CCMP can help with collaboration between agencies, and may help with funding. Darcy distributed a revision in response to comments, including those received at the December 18 BACWA Board meeting. There is an expanded background section compared to the previous draft. The three components of the CCMP pertaining to recycled water are:

- Increase the use of recycled water produced by Estuary wastewater treatment plants for both potable offset and beneficial uses
- Promote indirect potable reuse (IPR) with regional agencies
- Following state lead, promote the development of standards for direct potable reuse (DPR)

The committee discussed the water recycling goals included in the CCMP which are from an outdated report (Bay Area Regional Water Recycling Program). The Region no longer has targets, although individual agencies have projections. The State does have targets via the Recycled Water Policy. It is unclear which agency or organization should develop either projections or targets for the Region. The committee also commented that there are still new nonpotable uses that can be served with recycled water, so the actions should not exclusively focus on IPR and DPR. The updated draft adds “owners” which are agencies and associations who will be directly involved in implementing the goals.

Bay Area Landscape Guide

This Landscape Guide has been in development for three to four years with significant stakeholder involvement. There are nine to ten chapters of the Bay Area Landscape Guide that are ready for final copy editing and developing proofs. They are targeting publication for March 2016.

In June of 2015, the governor updated the landscape reference evapotranspiration of 75% to 50% or 40% in the Model Water Efficient Landscape Ordinance (MWELO). All water agencies need to adopt ordinances that are at least as restrictive as the MWELO. This effectively eliminates turf in commercial/industrial areas, and reduces the use of high water-demand plants. This new restriction will make it more difficult for planting redwood trees, but recycled water does not have the same restrictions and landscapes irrigated with recycled water are exempt from the ordinance.

Recycled Water Survey

BACWA will be updating its 2011 Bay Area Recycled Water Survey as part of the work associated with the Nutrient Watershed Permit. The approach includes using the information DWR is collecting as part of the Urban Water Management Plans updates and adding recycled water current use and projections data being collected by HDR in their nutrient optimization and upgrade studies. The draft BACWA recycled water survey was circulated to committee. It was suggested that a better way to measure “level of confidence” is for future project to be noted as budgeted vs. master planned vs. conceptual, instead of using confidence percentages.

State General Order for Recycled Water Use

The State Water Board has proposed a [Water Reclamation Requirements for Recycled Water Use](#) (State General Order) that will replace [2014-0090-DWQ General Waste Discharge Requirements for Recycled Water Use](#). Some agencies in our Region have stated that they do not want to seek coverage under the 2014 State General Order, since its requirements are more onerous than Region 2's recycled water General Permit 96-011. The Committee convened a workgroup to develop a comment letter on the proposed General Order. In the draft comment letter, BACWA recommends that Finding 34 be revised to state "Discharges covered under other existing orders (water reclamation requirements, master reclamation permits, general or individual waste discharge requirements, or waivers of waste discharge requirements) may: (i) operate under that authority for existing, expanded and new coverage under existing orders or; (ii) apply for coverage under this General Order."

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



Executive Director's January - February 2016 Report

NUTRIENTS:

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

- Attended and participated in conference calls as well as the 16th meeting of the Steering Committee's Planning Subcommittee and provided BACWA in-kind services by serving as scribe. Following the meeting prepared detailed meeting minutes and summary of action items.
- Chaired the monthly CMG meetings with the main topic being the review of the progress on the Optimization/Upgrade studies.
- Coordinated with the OP/Upgrade consulting team on administrative issues.
- Prepared and submitted a BACWA comment letter on the Assessment Framework

BACWA BOARD MEETING AND CONFERENCES:

- Worked with staff in preparing for the February BACWA Board meeting including reviewing the agenda with the Board Chair.
- Prepared for and attended the BACWA monthly Board meeting in December.
- Organized the bi-monthly Joint Meeting with the Water Board for February.
- Continuing to track all action items to completion.
- Planned for and attended the 2016 Annual Membership Meeting presenting information on the BACWA organization as well as updates on the nutrient watershed permit activities.

ASC/SFEI:

- As a member of the Executive Committee, coordinated with SFEI Executive Director on Board activities.
- Participated in the Executive Committee conference call to review a project opportunity and approve the project.

FINANCE:

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

PERMIT COMMITTEE:

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



BACWA
BAY AREA
CLEAN WATER
AGENCIES

Executive Director
January – February 2016 Report

- Attended the December Water Board meeting and presented BACWA's comments on the Basin Plan Triennial Review.
- Worked with the RPM to prepare and submit the comment letter on the TO for the Alternative monitoring program in support of the RMP.

AIR COMMITTEE:

- Coordinated with the AIR Committee leadership on the progress for the AIR Committee becoming a full-fledged Committee of BACWA.

RECYCLED WATER COMMITTEE:

- Met with the GM of Contra Costa Water District to discuss BACWA's role in the Bay Area reliability study.

LAB COMMITTEE:

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

ADMINISTRATION:

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

MISCELLANEOUS MEETINGS/CALLS:

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



BACWA BOARD CALENDAR

DATE	AGENDA	NOTES
March 2016 to February 2017		
2/29/2016		
Joint Meeting	<u>Other Business: Discussions</u>	
Items due:		
Pagano; Connor; Horenstein;		
Ervin; Bailey		
Williams; Fono		
3/18/2016	<u>Consent</u>	
Monthly Board Mtg	Previous Board Meeting Minutes (AED)	
Items due: 3/11	Monthly Treasurer's Report (EBMUD Accounting)	
Pagano; Connor; Horenstein;	<u>Reports</u>	
Ervin; Bailey	Committee Reports (Committee Chairs)	
Williams; Fono; Hull	Board Reports (Executive Board)	
	ED Report (ED)	
	RPM Report (RPM)	
	Chair/ED Authorizations (AED)	
	<u>Authorizations & Approvals</u>	
	<u>Other Business - POLICY/STRATEGIC</u>	
	Discussion: WB Joint Meeting Debrief	
	Discussion: HDR Quarterly Update on Optimization/ Upgrade studies	
	Discussion: Draft Agenda April Water Board Jt Mtg	
	Presentation: CPSC Update (Heidi Sanborn)	
	<u>Other Business - OPERATIONAL</u>	
	Discussion: Second Draft of FY17 Budget	
	<u>Announcements</u>	
	Conflict of Interest Filing Deadline - April 1st	
4/?/2016		
Joint Meeting	<u>Other Business: Discussions</u>	
Items due: ?		
Pagano; Connor; Horenstein;		
Ervin; Bailey		
Williams; Fono		
4/15/2016	<u>Consent</u>	
Monthly Board Mtg	Previous Board Meeting Minutes (AED)	
Items due: 4/10	Monthly Treasurer's Report (EBMUD Accounting)	
Pagano; Connor; Horenstein;	<u>Reports</u>	
Ervin; Bailey	Committee Reports (Committee Chairs)	
Williams; Fono; Hull	Board Reports (Executive Board)	

ED Report (ED)
RPM Report (RPM)
Chair/ED Authorizations (AED)

Authorizations & Approvals

Approval: FY17 Budget

Other Business - POLICY/STRATEGIC

Discussion: WB Joint Meeting Debrief

Other Business - OPERATIONAL

Discussion: Succession Planning FY17

5/?/2016 TENTATIVE

Nutrient Workshop

Discussions

Items due: ? Optimization/Upgrade Studies
Pagano; Connor; Horenstein;
Ervin; Bailey Early Actions
Williams; Fono

5/20/2016 Consent

Monthly Board Mtg

Items due: 5/13

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

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

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Chair/ED Authorizations (AED)

Authorizations & Approvals

Approvals: FY17 Agreements

Other Business - POLICY/STRATEGIC

Discussion: Biannual Update on CWCCG (SDeslauriers)
Discussion: Confirmation of BACWA Reps to ASC/SFEI Governing Board
Discussion: Draft Agenda Joint Meeting with WB
Discussion: Pesticides Update (Kelly Moran)

Other Business - OPERATIONAL

6/?/2016

Joint Meeting

Other Business: Discussions

Items due: ?
Pagano; Connor; Horenstein;
Ervin; Bailey
Williams; Fono

6/17/2016 Consent

Monthly Board Mtg

Items due: 6/10

Pagano; Connor; Horenstein;
Ervin; Bailey

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

Reports

Williams; Fono; Hull

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Chair/ED Authorizations (AED)

Authorizations & Approvals

Approvals: FY17 Agreements

Other Business - POLICY/STRATEGIC

Discussion: HDR Quarterly Update on Optimization/ Upgrade studies

Discussion: WB Joint Meeting Debrief

Other Business - OPERATIONAL

7/15/2016 **Consent**

Monthly Board Mtg

Items due: 7/8

Pagano; Connor; Horenstein;
Ervin; Bailey

Williams; Fono; Hull

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

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Chair/ED Authorizations (AED)

Authorizations & Approvals

Approval: Annual Nutrient WS Payment

Approval: FY16 Closeout & FY17 Amended Budget

Approvals: FY17 Agreements

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Pardee Technical Seminar

Discussion: RMP Update (Phil Trowbridge)

Discussion: Draft Agenda Joint Meeting with WB

Other Business - OPERATIONAL

8/?/2016

Joint Meeting

Items due: ?

Pagano; Connor; Horenstein;
Ervin; Bailey

Williams; Fono

Other Business: Discussions

8/19/2016 **Consent**

Monthly Board Mtg

Items due: 8/12

Pagano; Connor; Horenstein;
Ervin; Bailey

Williams; Fono; Hull

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

Reports

Committee Reports (Committee Chairs)

Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Chair/ED Authorizations (AED)

Authorizations & Approvals

Approval: Solano Comm College Agrmt - Fall 2016

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Pardee Technical Seminar

Discussion: WB Joint Meeting Debrief

Other Business - OPERATIONAL

9/16/2016 Consent

Monthly Board Mtg

Items due: 9/9

Pagano; Connor; Horenstein;
Ervin; Bailey

Williams; Fono; Hull

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

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Chair/ED Authorizations (AED)

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: Draft Agenda Pardee Technical Seminar

Discussion: Annual Meeting Planning

Other Business - OPERATIONAL

10/12-14/2016

Pardee Technical Seminar

Pagano; Connor; Horenstein;
Ervin; Bailey

Williams; Fono; Hull

11/18/2016 Consent

Monthly Board Mtg

Items due: 11/11

Pagano; Connor; Horenstein;
Ervin; Bailey

Williams; Fono; Hull

Previous Board Meeting Minutes (AED)
Monthly Treasurer's Report (EBMUD Accounting)
FY16 Annual Report & Audited Financials

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Chair/ED Authorizations (AED)

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: Pardee Debrief & Survey
Discussion: Draft Agenda Joint Meeting with WB
Discussion: Biannual Update on CWCCG (SDeslauriers)

Other Business - OPERATIONAL

Discussion: Annual Meeting Planning

12/?/2016

Joint Meeting

Items due: ?

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

Other Business: Discussions

12/16/2016

Consent

Monthly Board Mtg

Items due: 12/9

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

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

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Chair/ED Authorizations (AED)

Authorizations & Approvals

Other Business - POLICY/STRATEGIC

Discussion: HDR Quarterly Update on Optimization/ Upgrade studies
Discussion: WB Joint Meeting Debrief

Other Business - OPERATIONAL

Discussion: FY18 Budget Planning Schedule
Discussion: Annual Meeting Planning

1/?/2017

Annual Members Mtg

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

2/?/2017

Consent

Monthly Board Mtg

Items due: 2/12/15

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

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

Reports

Committee Reports (Committee Chairs)
Board Reports (Executive Board)
ED Report (ED)
RPM Report (RPM)
Chair/ED Authorizations (AED)

Authorizations & Approvals

Approval: Solano Comm College Agrmt - Spring 2016

Other Business - POLICY/STRATEGIC

Presentation: CPSC Update (Heidi Sanborn)

Other Business - OPERATIONAL

Discussion: FY2017 Budget Planning

Discussion: Annual Meeting Debrief

Announcements

Pardee Seminar Dates

CURRENTLY UNSCHEDULED AND SIGNIFICANT

- * BACWA Membership Engagement Opportunities
- * Tech Seminar/Workshop: CCCSD Cogen explosion need to schedule; SFPUC force main leak and repair, need to schedule.
- * Chlorine Residual Analyzer Investigation
- * Suggestions for Monthly Meeting Guest
Speakers/Presenters: i.e. Jim McGrath, State Water Board; ?
- * CEC's (Kelly Moran).



BACWA ACTION ITEMS

Number	Subject	Task	Deadline	Status
Action Items from December 18, 2015 BACWA Executive Board Meeting				
2015.12-39	Prop 1 Proposal	Convene Comm to discuss possible proposals (RPM)	2/5/2016	completed
2015.12-38	Technical Review of Nutrient Docs	Develop RFP (ED)	2/19/2016	completed
2015.12-37	Opt/Upgrade Study	Develop Guidance to Differentiate Opt/Upd (ED)	4/30/2016	completed
2015.12-36	Microplastics	Develop Proposal for Consultant Assistance (Nirmela Arsem)	3/31/2016	pending
2015.12-35	Microplastics	Obtain Comments on SFEI manuscript	1/22/2016	completed
2015.12-34	CASA State Legislative Committee	Obtain CASA Comment Letter (AED)	12/21/2015	completed
2015.12-33	BAPPG	Sign Comment Letter to FDA (follow up with Melody) (AED) (Logo)	1/8/2016	completed
2015.12-32	Drought/Recycling	BACWA Member comments to CCMP (RPM)	1/31/2016	completed
2015.12-31	Annual Meeting Program	Make Board suggested changes (ED)	12/31/2015	completed
2015.12-30	BACWA Approach to Nutrients	Obtain Board direction for internal framework (ED) - Feb Mtg Agenda	1/31/2016	completed
Action Items Remaining from Previous BACWA Executive Board Meetings				

FY 16: 38 of 39 Action Items completed.
 FY 15: 90 of 90 Action Items completed.
 FY 14: 128 of 128 Action Items completed.
 FY 13: 67 of 67 Action Items completed.



Regulatory Program Manager's Report to the Board

December 21 – February 16, 2015

Prepared for the February 19, 2016 Executive Board Meeting

NUTRIENT SUPPORT: Participated in CMG conference call. Participated in call between Department of Water Resources (DWR) and BACWA Recycled Water Committee chairs to make sure that the recycled water data gathered from member agencies as part of the Nutrient Optimization and Upgrade Studies would satisfy the State. DWR is conducting its own recycled water survey and does not want to duplicate efforts. Reviewed SFEI invoices for FY14 contract and recommended contract extension. Reviewed Nutrient SAG documents and BACWA comments, and attended meeting.

BACWA BULLETIN: Drafted and distributed January and February BACWA Bulletins.

ALTERNATIVE MONITORING TENTATIVE ORDER: Drafted BACWA comment letter on Alternative Monitoring Tentative Order, in consultation with permits committee and RMP staff. Reviewed Regional Water Board's Response to Comments.

CECs: Contacted Palo Alto to get information to respond to the Regional Water Board's request for information on CECs management. Participated in conference call with CASA and State Water Board staff regarding the State's draft Pilot Monitoring Plan for CECs. The draft Plan requires a budget of \$446K+ for the Bay Area over 2 years, but does not include a funding source. State Water Board staff stated that the monitoring plan is a work in progress, and agreed to come to the April RMP CECs meeting to see how the State can get the data they want as part of the existing RMP program.

INFORMATION SHARING TOOL: Looked at different options for document sharing and integration with the BACWA website. Contacted website provider to discuss alternatives.

CASA REGULATORY WORKGROUP: Attended 1/14 conference call and 2/11 meeting. EPA staff including Nancy Wu and Dave Smith will be attending some meetings in the future on a regular basis. The workgroup also discussed ways to influence SCCWRP when they waded into the policy arena. Some key discussion topics from the meetings: Seven of eight of LACSD's plants are currently in violation for toxicity; the Biostimulatory Substances effort is a new incarnation combining bioobjectives and the nutrient effort; NPDES fees will likely go up between six and seven percent next year; the LA and Central Valley Regions want the CECs pilot initiative to go forward since they are concerned about getting monitoring requirements into permits.

ANNUAL MEMBERS MEETING: Assisted in planning and running meeting. Provided presentation on Alternative Monitoring Tentative Order. Drafted list of key committee accomplishments for supported committees. Updated Regulatory Issues Matrix for meeting.

PROPOSITION 1 PROPOSAL: Recruited workgroup for proposal to study reverse osmosis concentrate management. Consulted with SFEI staff on next steps to develop proposal.

NPDES COMPLIANCE LETTER: Drafted NPDES Compliance letter to Regional Water Board, which agencies incorporate into Annual Reports to show compliance with permit requirements

that are fulfilled by BACWA and the RMP.

COMMITTEE SUPPORT:

AIR – Updated AIR Committee website.

BAPPG – Attended committee meeting and drafted meeting notes and Board Report.

Collections – Attended committee meeting, and drafted agenda and Board report for committee meeting. Updated and distributed survey on private sewer lateral repair ordinances.

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

Recycled Water - Attended committee meeting and drafted meeting notes and Board Report.

Executive Board – Developed draft agenda for joint meeting with Regional Water Board on 2/29. Contributed to meeting minutes for 12/18 Executive Board meeting. Worked with BACWA staff to inform draft FY17 BACWA budget.

MEETINGS ATTENDED: BACWA Staff Meeting (1/5), Recycled Water Comm. (1/6), CMG Conference call (1/8), Permits Comm. (1/12), Recycled Water Survey Conference Call with DWR (1/13), CASA Regulatory Workgroup Conference Call (1/14), Collection Systems Comm. (1/14), Annual Meeting (1/15), SAG Meeting Comments (2/1), BAPPG (2/3), BACWA Staff meeting (2/4), State Water Board CECs Monitoring Conference Call (2/5), Nutrient SAG (2/9), CASA Regulatory Workgroup (2/11).

Sherry Hull

From: Sherry Hull
Sent: Monday, February 15, 2016 10:22 AM
To: Sherry Hull
Subject: SWRCB Focus Group Meeting - Biostimulatory Substances

From: Camacho, Steve@Waterboards [<mailto:Steve.Camacho@waterboards.ca.gov>]
Sent: Wednesday, February 3, 2016 5:04 PM
To: Dave Williams; Lorien Fono; eoofficer@cvcwa.org; pmarkle@lacsdsd.org
Cc: mitchellm@sacsewer.com
Subject: Focus Group Meeting - Biostimulatory Substances

Hello Focus Group Members-

The State Water Resources Control Board (State Water Board) is proposing statewide amendments to the Inland Surface Waters, Enclosed Bays, and Estuaries Plan for biostimulatory substances objectives for wadeable streams of California (proposed amendments). Elements of the proposed amendments may include a consistent statewide narrative objective for biostimulatory substances, numeric translators to support the narrative objective, and a program of implementation based on a watershed approach that base nitrogen and phosphorus limits or targets on the cumulative amounts that those sources (both point and non-point) are contributing to a watershed.

State Water Board staff would like to request your participation in a small focused group meeting, with colleagues who also share similar expertise and interest in biostimulatory substances objectives, to provide early input on the scope of the proposed project.

The meeting will take place on **February 26, 2016 from 9 AM to 12 PM** at the Cal/EPA building in Sacramento in **Conference Room 230**. An outreach document about the project and a meeting agenda with directions to the meeting location will be sent out to you soon after February 8, 2016.

For planning purposes, it is important for you to confirm your attendance by *Monday, February 8, 2016* by replying to Steve Camacho at steve.camacho@waterboards.ca.gov or Zane Poulson at zane.poulson@waterboards.ca.gov.

This meeting is by invitation only. You may send an alternative person to represent your interests at the meeting. If you choose to send an alternate representative, please let us know who this will be by sending us their name, email address and phone number. We kindly request that you do not forward this invitation to other persons who have not been invited to attend this meeting. The purpose of limiting the attendance at this meeting is to have a productive discussion that allows everyone who attends to have a chance to express their views and ideas. Please let us know if you strongly believe that someone else needs to be included and we will follow up with them.

If you have any questions please contact Steve Camacho at (916) 341-5561 or Zane Poulson at (916) 341-5488.

Thank you,

Steve

Steve Camacho
Environmental Scientist
Planning, Standards, and Implementation Unit
State Water Resources Control Board

1001 I Street
Sacramento, CA 95814-2828

Phone: (916) 341-5561

Fax: (916) 341-5550

steve.camacho@waterboards.ca.gov

State Water Resources Control Board

**PROPOSED BIOSTIMULATORY SUBSTANCES AMENDMENTS TO THE WATER QUALITY CONTROL
PLAN FOR INLAND SURFACE WATERS, ENCLOSED BAYS, AND ESTUARIES OF CALIFORNIA
FOCUS GROUP MEETING
PUBLICLY OWNED TREATMENT WORKS**

February 26, 2016, 9 AM – 12 PM

**JOE SERNA, JR. – CAL/EPA HEADQUARTERS BUILDING, RM. 230
1001 'I' STREET, SACRAMENTO, CA 95814
(SEE TRAVEL INFORMATION ON BACK)**

Meeting Purpose: to obtain early input on the scope of the State Water Resources Control Board's proposed amendments to the Inland Surface Waters, Enclosed Bays, and Estuaries Plan for Statewide Biostimulatory Substances (Proposed Amendments)

AGENDA

I. Welcome and Introductions

Rik Rasmussen, Manager, Water Quality Standards and Assessment Section, State Water Resources Control Board

II. Presentation and Goal of Biostimulatory Substances Focus Group Meetings

Steve Camacho, Staff, Division of Water Quality, State Water Resources Control Board

III. Open Discussion – Biostimulatory Substances Outreach Document

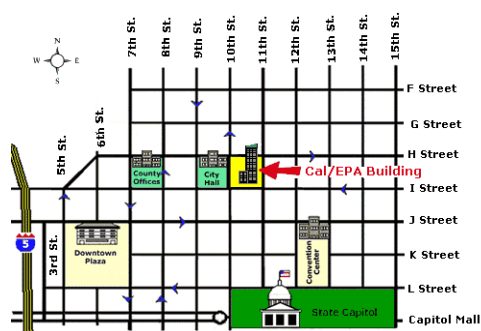
All – Discussion of Issues

IV. Closing and Next Steps

Rik Rasmussen, Manager, Water Quality Standards and Assessment Section, State Water Resources Control Board

Adjourn

Travel Information



By Air

Sacramento County Airport System is a 20 minute drive from downtown Sacramento. There are several transportation options from the airport to the Cal/EPA Building.

YoloBus has a bus route leaving the airport every hour from Terminal A and Terminal B at approximately 10 minutes after the hour from 7 a.m. to 10 p.m. You stand at the Public Transportation Bus Stop. The route takes approximately 18 minutes to get from the airport to 9th and K Street. This is 2 blocks from the Cal/EPA building. The return trip from 9th and K Street runs approximately 5 minutes after the hour and takes approximately 20 minutes to arrive at the airport. (800) 371-2877.

SuperShuttle Sacramento is another transportation option to and or from the Sacramento Airport. Please provide them with a 24-hour notice to arrange for pick-up service from the Cal/EPA building. (800) 258-3826 or (800) BLUEVAN.

If you are renting a car, see the driving instructions below.

By Train

The Sacramento Amtrak train station is at 401 I Street, six blocks from the Cal/EPA Headquarters building. Amtrak's Capitol Corridor trains operate between the Bay Area and Sacramento with many trains daily. Amtrak California's San Joaquin trains and motor coaches connect the Central Valley from as far south as Bakersfield (and further with their motor coach system) to Sacramento. Other Amtrak trains serving Sacramento include the Coast Starlight and the California Zephyr.

Regional Transit's light rail serves the train station every 15 minutes seven days a week. RT bus routes also link the Station to downtown government offices and the rest of Sacramento County.

By Car

Getting to Sacramento:

- From the Bay Area, take I-80 East, then I-80 Business (Capital City Freeway), then I-5 North.
- From Central/Southern California, take I-5 North, or take US-99 to I-5 North.
- From the east, take US-50 West to I-5 North, or I-80 West to I-5 South.
- From the airport and other points North, take I-5 South.

Once on I-5 in Sacramento

- Take the J Street exit.
- Take J St. east to 11th and turn left.
- Go one block and turn left on I St.

The Cal/EPA headquarters building will now be on your right. It fills the block bordered by I St. on the south (1-way west), H St. on the north (1-way east), 10th St. on the west, and 11th St. on the east.

Parking

Metered Parking (1, 2, and 10-hour meters) is available near the CalEPA building. Meter parking uses quarters (some meters may use special "debit cards").

Parking lots are also available in several nearby locations. The closest lot is across from the building on 10th & I Street.

Visitors Check-in

The California Environmental Protection Agency Building is a secure building. Visitors must check-in at the guard station as they enter the building. They must sign in and receive a temporary badge and must sign out as they leave the building. The guard will contact the Cal/EPA staff for the visitor so they can escort the visitor through the building.

NSF ERC for Re-inventing the Nation's Urban Water Infrastructure [ReNUWIt]

Industrial Advisory Board Members

Mackenzie Room, Huang Engineering Center, 3rd Floor

Monday, January 11

12 PM (noon)	Arrive at Mackenzie Room; pick up name badge, tent card and jump drive
12:00 – 1:15 PM	Buffet lunch [Mackenzie Room]
1:15—1:30 PM	Welcome IAB members; agenda and ReNUWIt research structure [Luthy/Sedlak]
1:30 – 2:45 PM	Student poster session [Huang, lower level]
2:45—3:00 PM	Break
3:00 – 4:00 PM	Meeting with Felicia Marcus, Chair, California State Water Resources Control Board, Mackenzie Room Open discussion about innovation with an emphasis on challenges for water-short regions
4:00—5:15 PM	IAB SWOT Analysis – IAB members only [Meabon Burns] [Chaired by Rhodes Trussell and R. Deeb; Mackenzie Room]
5:00 – 6:00 PM	Reception [Huang, lower level]
5:30 – 6:45 PM	Buffet Dinner [Huang, lower level]
7:00—8:30 PM	Facilitated discussion: Felicia Marcus, State Water Resources Control Board, moderator, David Sedlak Lecture, Nvidia Auditorium [on same level as Huang lower level] "California Dreaming: Water Supply for Drier State"
8:45 PM	Shuttle Departs, Return to Sheraton Hotel

Tuesday, Jan. 12 Industrial Advisory Board Members

7:00 – 8:00 AM	Breakfast [Mackenzie Room, 3 rd Floor Huang]
7:05 AM	Gather in Sheraton Hotel lobby for shuttle buses
7:10 AM	Shuttle buses depart Sheraton Hotel
7:30 AM	Drop off at Panama and Via Ortega
8:00 – 8:05 AM	Welcome [Dick Luthy]
8:05 – 8:15 AM	Dean's Welcome [Persis Drell]; Brief introductions [Luthy]
8:15 AM	Overview of the Center and Strategic Vision [Dick Luthy and David Sedlak]
9:15 AM	Research Program by Thrust [Bill Eisenstein, N. Khandan, Ali Boehm]
10:30 AM	Poster session [Huang lower level]
10:30	IAB interactive discussion/business meeting [Mackenzie Room]
11:30 AM	Research highlights presentation [Mackenzie Room] [During NSF executive session; Project U2.10, Water Sustainability; Terri Hogue; Project U3.1 Urban Water Innovation, Mike Kiparsky]
12:00- 1:00 PM	Buffet Lunch [Mackenzie Room and 3 rd floor lobby area]
1:00 PM	University & Pre-College Education [K. Nelson, J. Munakata-Marr, N. Khandan, P. McLeod]
2:00 PM	Research highlights presentation [Mackenzie Room] [During NSF private meeting with students: Status of resource recovery from wastewater, Sebastien Tilmans; Project N2.5 and U2.8, Stormwater capture, treat, recharge for urban water (Dick Luthy)]
2:45 PM	Break
3:00 PM	Industrial/Practitioner Collaboration [M. Burns, R. Deeb, R. Trussell]
3:30 PM	Private meeting with NSF site visit team – IAB SWOT analysis [R. Deeb, D. Pettijohn, Rhodes Trussell] [Mackenzie Room]
4:50 PM	Reassemble – Luthy and Sedlak wrap up comments [Mackenzie Room]
5:00 PM	Shuttle buses to SFO and SJC airports