Executive Board Meeting Agenda

Friday, September 26, 2014, 9:00 a.m. – 12:30 p.m.
EBMUD Treatment Plant Lab Library
2020 Wake Avenue, Oakland, CA

Agenda Item	Time	Page #
ROLL CALL AND INTRODUCTIONS	9:00 a.m. – 9:03 a.m.	
PUBLIC COMMENT	9:03 a.m. – 9:05 a.m.	
CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER	9:05 a.m. – 9:10 a.m.	
CONSENT CALENDAR 1. August 15, 2014 BACWA Executive Board Meeting Minutes 2. July 2014 Treasurer's Report 3. September 9, 2014 BACWA Executive Board Special Meeting Minutes	9:10 a.m. - 9:15 a.m.	 3-8 9-14 15
REPORTS 4. Committee Reports 5. Executive Board Reports 6. Executive Director Report 7. Regulatory Program Manager Report 8. Other BACWA Representative Reports a. RMP-TRC: Rod Miller b. RMP Steering Committee: Karin North; Jim Ervin c. Summit Partners: Dave Williams d. ASC/SFEI: Laura Pagano; Dave Williams e. Nutrient Governance Steering Committee: Ben Horenstein; Jim Ervin f. SWRCB Nutrient SAG: Dave Williams g. SWRCB Focus Group – Bacterial Objectives: Lorien Fono; Amy Chastain h. SWRCB Focus Group – Mercury Amendments to the State Plan: Tim Potter i. Nutrient Technical Workgroup – Eric Dunlavey j. NACWA Taskforce on Dental Amalgam – Tim Potter	9:15 a.m. – 10:00 a.m.	 16-29 30-35 36-40

CHAIR & EXECUTIVE DIRECTOR AUTHORIZED ACTIONS 9. ED Authorization of funds for BAPPG/O'Rorke for social marketing ads for P2 Week	10:00 a.m. – 10:05 a.m.	41-43
OTHER BUSINESS 10. Approve: JPA Funding Resolution 11. Discussion: Feedback on Joint Meeting with Water Board 12. Discussion: Feedback on Meeting with Chair of RWQCB 13. Discussion: Collection Systems Committee Support 14. Discussion: SSO Enforcement Options 15. Discussion: Nutrients a. Technical Work i. Update on WS Case Studies Symposium b. Regulatory i. HDR Contract for Optimization/Upgrade Studies c. Governance Structure i. Steering Committee Governance Workgroup Meeting ii. Program Coordinator 16. Discussion: Next Steps on Chlorine Residual Monitoring (Amada Roa) 17. Discussion: Toxicity Update (Mike Connor) 18. Discussion: Regulatory Issue Matrix, Updated (RPM) 19. Discussion: Pardee Planning 20. Discussion: Annual Member Meeting Planning 21. Discussion: Summit Partners Meeting Agenda	10:05 a.m. – 10:15 a.m. 10:15 a.m. – 10:20 a.m. 10:20 a.m. – 10:25 a.m. 10:25 a.m. – 10:35 a.m. 10:35 a.m. – 10:45 a.m. 10:45 a.m. – 11:30 a.m. 11:30 a.m. – 11:40 a.m. 11:40 a.m. – 11:50 p.m. 11:50 p.m. – 11:55 p.m. 11:55 p.m. – 12:10 p.m. 12:10 p.m. – 12:20 p.m. 12:20 p.m. – 12:25 p.m.	44-47 48 49-54 55-63 64-70 71-87 88-96 97-98 99-100
SUGGESTIONS FOR FUTURE AGENDA ITEMS	12:25 p.m. – 12:30 p.m.	
NEXT REGULAR MEETING The next regular meeting of the Board is scheduled for **November 21, 2014 from 9:00 am – 12:30 pm** at the **SFPUC, Hetch Hetchy Room, 13th Floor, San Francisco, CA.** Pardee Technical Seminar is scheduled for October 21 – 23, 2014.		
ADJOURNMENT	12:30 p.m.	

Executive Board Meeting Minutes

Friday, August 15, 2014, 9:00 a.m. – 12:30 p.m.

SFPUC, Hetch Hetchy Room, 13th Floor, 525 Golden Gate Ave., San Francisco, CA

ROLL CALL AND INTRODUCTIONS

Executive Board Representatives: Mike Connor, Chair (East Bay Dischargers Authority); Laura Pagano, Vice Chair (San Francisco Public Utilities Commission); Jim Ervin (San Jose); Vince De Lange (East Bay Municipal Utility District); Roger Bailey (Central Contra Costa Sanitary District).

Other Attendees:

Name	Agency/Company
Bhavani Yerrapotu	Sunnyvale
Tim Potter	Central Contra Costa Sanitary District
Vince De Lange	East Bay Municipal Utility District
Karin North	Palo Alto
Amanda Roa	Delta Diablo
Holly Kennedy	HDR
David Senn	SFEI
Amy Chastain	SFPUC
Melody LaBella	Central Contra Costa Sanitary District
Phil Trowbridge	SFEI
Sarah Deslaurieres	Carollo
Meg Herston	Fairfield Suisun Sewer District
Dave Richardson	RMC
Tom Hall	EOA
Denise Connors	Larry Walker Associates
Tricia McGovern	PME
David Williams	BACWA
Lorien Fono	BACWA
Sherry Hull	BACWA

PUBLIC COMMENT

None.

CONSIDERATION TO TAKE AGENDA ITEMS OUT OF ORDER

None.

CONSENT CALENDAR

1. July 18, 2014 BACWA Executive Board Meeting Minutes
2. May 2014 & June 2014 Treasurer's Reports

Consent Calendar items 1 and 2 *were approved in a motion made by Tim Potter and seconded by Laura Pagano. The motion carried unanimously.*

REPORTS
Committee Reports were included in the handout packet for agenda **item 3.**

AIR Committee – Report given at last month's Board meeting.
Recycled Water Committee – As part of a discussion on using recycled water for nutrient removal, a question had been raised as to how many agencies were planning on using RO in the future for recycled water projects. Based on a survey of agencies, it was noted that at this time no agencies are planning on doing RO. Landscaping Guide is almost done.
Collections Committee – RPM noted that they did not have a meeting this month.
Lab Committee & Permits Committee – RPM noted that they both met this week and will present reports at the next Executive Board meeting.
Biosoids Committee –It was noted that Alicia Chakrabarti and Karla Guevarra have volunteered to assume the role of Chair and Vice Chair of the Biosolids Committee. Their first meeting date is to be determined.

Executive Board representatives (Board) were given an opportunity to provide updates from each of the Principal agencies under agenda **item 4, Executive Board Reports.** Non-principal members were also given an opportunity to report out on behalf of their agencies. No actions were taken on the report-outs.

Vincent De Lange mentioned the plan to bring 100 tons per day of organics to EBMUD as part of the new Oakland solid waste contract. Initially this would involve a transfer station in Oakland at the EBMUD plant site until.

Laura Pagano noted that no discharge penalties have been levied. She also noted that this was her last day before leave and that Amy Chastain would be taking over for her during her absence.

Jim Ervin mentioned his continuing objections to provisions in the San Jose new NPDES permit for 1) the reporting requirements of the daily max and false positives for chlorine; 2) RMP monitoring – should do 12 vs. 24; 3) lack of designation of Net Environmental Benefits for San Jose as a result of improvements they have made over the years to their plant and the benefits those improvements have had to the receiving waters. He also gave a short presentation with slides of the beach skein program showing a variety of fish.

Roger Bailey spoke about the CCCSD new pilot study for zeolite/anamox testing. $60k is being spent on a phytoplankton study. It was noted that on this study there had been close coordination with SFEI and the Water Board as part of the overall effort to coordinate all nutrient investigations.

Mike Connor noted that ammonia in their effluent is down. He also said he received a call from the Chair of the Water Board regarding meeting to discuss mutual interests with POTWs and would like feedback by Monday on any issues BACWA feels should be discussed at the meeting.

The **Executive Director's June Report** was included in the handout packet for agenda **item 5** and David Williams highlighted items in the report. He noted that only four action items remain incomplete from fiscal year 2013-14 and four of the six action items from fiscal year 2014-15 have been completed.

The **Regulatory Program Manager (RPM) Report under agenda item 6** was included in the handout packet. The RPM highlighted the risk reduction issue. DPH's grant application to EPA was not approved so BACWA's proposed participation in that effort in the amount of $50k over a 5 year permit term will not be moving forward. The ED suggested the board work with the Water Board to identify who to work with on risk reduction. Lorien noted that her last day before leave would be September 24th. Trish McGovern would be taking over for her during her absence.

Other BACWA Representative Reports were given an opportunity to provide updates under **agenda item 7.**

Item 7, Other BACWA Representative Reports. No actions were taken based on the reports.

a. RMP-TRC: Rod Miller – No meeting.
b. RMP Steering Committee: Karin North; Jim Ervin - no report.
c. Summit Partners: Dave Williams – next meeting September 8th, hosted by BACWA. He will distribute the Agenda to Members.
d. ASC/SFEI: Laura Pagano; Dave Williams – Dave reported that they have been searching for a Director for ten months. Interviews have taken place, they have chosen the top three and negotiations are in progress.
e. Nutrient Governance Steering Committee: Ben Horenstein; Jim Ervin – see report under Agenda item 10.c.i.
f. SWRCB Nutrient SAG: Dave Williams – no report.
g. SWRCB Focus Group – Bacterial Objectives: Lorien Fono; Amy Chastain – Amy noted that her report had been given at last month's meeting. .
h. SWRCB Focus Group – Mercury Amendments to the State Plan: State Board staff provided a summary of meeting outcomes and action items that looked accurate. New, or reemphasized, beneficial reuses could change the fish consumption rates used to set the standards. Standards using the Least Tern will be limited to current habitat which includes the Bay Area. Staff will be recommending to not apply the new standards where current mercury TMDLs are in effect but as Debbie Webster with CVCWA said their RWQCB plans to reopen their TMDL on a schedule. BACWA should continue communications with our RWQCB staff as this program proceeds.
i. Nutrient Technical Workgroup – Eric Dunlavey – no report.

OTHER BUSINESS

Agenda **Item 8 -** Discussion - Adjustment of scope of work for WBA – ED gave a summary of the issue. *Laura moved to approve the adjustment. Roger seconded the motion, and after discussion it passed unanimously.*
Agenda **Item 9** – Approve - Fiscal Year 2015 Amended Budget – ED gave a summary of the amendments including encumbrances and carry-forwards. *Roger moved to approve the Amended Budget, Vince seconded the motion, and it passed unanimously.*

Agenda **Item 10 -** Discussion - Nutrients

a) Technical Work
   i) Update on WS Case Studies Symposium – It was noted that the October 6th Symposium now has six case studies to draw from and that one may be dropped from the Agenda. It was also noted that BACWA is assisting the speakers with their costs. The symposium will be at the State Building, 1515 Clay St., Oakland.
   ii) Draft Scopes of Work for Scientific Studies – ED reported that the Steering Committee approved $935,000 spending on projects. The Scope and Authorization for Payment can be found under Agenda Item #11.
   iii) New Hampshire Nutrient Investigation (Phil Trowbridge) – ED introduced Phil Trowbridge, the new coordinator for RMP. Phil gave an update on Nutrient regulation. It was noted that two of the lessons learned are that this is a long process and that it will affect land use decisions. Phil expanded on that to say that the cost of science is a fraction of the cost of lawsuits; this is a ten year plus process; and forward progress must be maintained.

b) Regulatory
   i) Update on Consultant Selection Process – Dave commented that the proposals received were all excellent. The top submission came from HDR and negotiations are progressing. Negotiations should be complete by the end of August and there will be a Special Meeting of the BACWA Board scheduled to award the contract.

c) Governance Structure
   i) Steering Committee Governance Workgroup Meeting – ED reported that there have been two meetings of the Steering Committee and that between meetings they plan to have discussions between the Water Board, BayKeeper, BACWA and possibly the EPA. At the first meeting in late July it was agreed that the group needs a driver, either a Program Coordinator or Manager. The questions of who and how to fund remain open. There has been discussion of a pilot period for a 1/3 time position funded half by BACWA and half by the Steering Committee. The next Workgroup meeting will be on August 27th.
   ii) Program Coordinator – this is on the August 27th meeting Agenda.

Agenda **item 11** –Approve – Watershed Permit Fund Commitment for $865,000. – David Senn of SFEI gave a presentation of the tools and processes that SFEI has developed to manage the

funds and the conduct of the scientific studies. SFEI envision a Director and Executive Committee in addition to the Steering Committee already in place. He supported Dave Williams being given a more active role in the coordination of the governance effort. He noted that there are three pieces that he will be focused on: 1) strong and detailed science; 2) peer review and 3) program management, reporting and accountability. He unveiled the beta website that provides the nutrient strategy and updates, timelines, links to documents and project tracking which should be available within weeks. Roger moved to approve the payment, Vince seconded the motion and it was unanimously approved.

Agenda **item 12 –** Discussion: SFEI/RMP (Phil Trowbridge) – Phil discussed their collaboration with the Water Board and Dischargers. Fees for the RMP have increased at or less than inflation and, when combined with inflation, the value of their work has eroded. SFEI believes they have cut in areas that now need to be restored and can continue to cut no longer. They will be adopting the State's Fiscal Year which is also BACWA's Fiscal Year and will be going through a budgeting exercise. He asks BACWA to communicate its priorities. Their annual meeting will be on October 14th, 2014 when they will report the results of the RMP Program. Karin North thanked Phil and noted that emerging contaminants will be an issue going forward and they will be coming to BACWA in that regard.

Agenda **item 13** – Discussion: Biannual Update from CWCCG (S. Deslaurieres) – Sarah provided a presentation on the work of the Climate Change Group. She noted that mitigation and adaption are key State and Federal issues. The State has adopted a five year mitigation plan and the scope was adopted May 22, 2014. The Climate Change Group's next meeting is September 17th and she will be at the next AIR Committee meeting. She will also provide a copy of her presentation to BACWA.

Agenda **item 14** – Discussion: IT/Web Upgrade – Dave Williams explained the history of the BACWA website expenditures and gave an overview of the current needs. The Board gave support for exploring upgrades to both the website and communication needs with a budget not to exceed the Chair's authorization.

Agenda **item 15** – Discussion: CASA Statewide Pesticide Steering Committee – It was reported that the study had detected pyrethroids in twenty of thirty plants. The Federal strategy seems to be a move away from the Clean Water Act. Identification of source is a problem. Tim noted that at the State Water Board there is support for NPDES Permits. He has concerns about disparate treatment between POTW's and the Vector Control Agency.

Agenda **item 16** – Discussion: Joint Meeting with Water Board – It was noted that the August

meeting had not been held yet but was scheduled for 1 ½ hours on August 18th. The Board agreed to push several items to the bottom of the Agenda since time was short and the Water Board staff felt they had already discussed their positions on most of the issues.

Agenda **item 17** – Discussion: SSO Enforcement Options – The Collections Committee has asked BACWA to use the remainder of contract funds to further expand and develop alternative enforcement approaches. The Board agreed that the Committee should complete the alternatives analyses and present them at the next BACWA Board meeting in September.

Agenda **item 18** – Discussion: JPA Funding Resolution – Dave Williams explained the discrepancies between the 1984 JPA and Board actions over the years. The Resolution represents the changes recommended. The Board requested that the Director provide a report at the September meeting on any fiscal impact of the Resolution to the principals.

Agenda **item 19** – Discussion: Draft Agenda for Pardee Technical Seminar – Dave Williams noted that the Water Board portion of the Agenda has been sent to Tom Mumley. Laura suggested that the Seminar take a more broadly-based approach and look longer than five years. She also suggested a look beyond the Regional Board regarding a broader nutrient strategy. Mike Connor suggested the inclusion of legislative staffers at the Nutrient Watershed Case Studies Symposium on September 6th.

Agenda **item 20** – Board & Committee Meeting Calendar for Jan-Dec 2015 – The Board accepted the suggested dates for Board and Committee Meetings for calendar year 2015.

Suggestions for Future Agenda Items:

- Pardee
- Regulatory Committee Restructuring

The meeting adjourned at 12:28 p.m.

The next regular meeting of the Board is scheduled for **September 26, 2014** from 9:00 am – 12:30 pm at **EBMUD Treatment Plant Lab Library, 2020 Wake Avenue, Oakland**

Bay Area Clean Water Agencies
A Joint Powers Public Agency
Leading the Way to Protect our Bay

September 23, 2014

MEMO TO: Bay Area Clean Water Agencies Executive Board
MEMO FROM: D. Scott Klein, Controller, East Bay Municipal Utility District
SUBJECT: First 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, 2014 through July 31, 2014** (one month of Fiscal Year 2014-2015). This report covers expenditures, cash receipts, and cash transfers for the following BACWA funds:

- Bay Area Clean Water Agencies (BACWA),
- BACWA Training Fund (Trng Fnd),
- Air Issues and Regulation Group (AIR),
- Bay Area Pollution Prevention Group (BAPPG),
- BACWA Legal Reserve Fund (Legal Rsrv),
- Water Quality Attainment Strategy (WQA CBC),
- BACWA Operating Reserve Fund (BACWAOpRes),
- Regional Water Recycling (RWR),
- BACWA Reserve (Reserve),
- Water/Wastewater Operator Training (WOT),
- Prop84 Bay Area Integrated Regional Water Mgmt (PRP84),
- WQA Emergency Reserve Fund (WQA Emerg),
- WQA Tech Action Fund (TechAction),
- CBC Operating Reserve Fund (CBC OpRsrv), and
- Prop50 Bay Area Integrated Regional Water Mgmt (PRP50)

Fund Balances as of month end 07/31/14

DESCRIPTION	BEGINNING FUND BALANCE 07/1/14	TOTAL RECEIPTS	TOTAL DISBURSEMENTS	ENDING FUND BALANCE 7/31/14	OUTSTANDING ENCUMBRANCES	UNOBLIGATED FUND BALANCE 07/31/14
BACWA	777,507	497	12,682	765,322	523,133	242,189
TRNG FND	-	-	-	-	-	-
AIR	19,063	15	-	19,078	77,064	(57,986)
BAPPG	60,537	42	-	60,579	31,443	29,135
LEGAL RSRV	300,000	-	-	300,000	-	300,000
WQA CBC	675,382	8,551	(35,330)	719,263	509,409	209,854
BACWAOPRES	160,000	-	-	160,000	-	160,000
RWR	16,780	10	-	16,790	-	16,790
RESERVE	-	-	-	-	-	-
WOT	58,295	33	-	58,328	-	58,328
PRP84	158,082	2,366,678	2,279,438	245,322	24,451	220,872
WQA EMERG	-	-	-	-	-	-
TECHACTION	-	-	-	-	-	-
CBC OPRSRV	1,198,890	969	-	1,199,859	-	1,199,859
PRP50	109,015	64	3,233	105,847	14,820	91,026
	3,533,551	2,376,858	2,260,022	3,650,387	1,180,321	2,470,066

BACWA Revenue Detail Report for July 2014

DEPTID	DEPARTMENT	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE			
				DIRECT	INVOICED	JVS	ACTUAL	DIRECT	INVOICED	JVS	ACTUAL
800	Bay Area Clean Water Agencies	BDO Member Contributions	459,000	-	-	-	-	-	-	-	-
800	Bay Area Clean Water Agencies	BDO Other Receipts	41,354	-	-	-	-	-	-	-	-
800	Bay Area Clean Water Agencies	BDO Fund Transfers	6,500	-	-	-	-	-	-	-	-
800	Bay Area Clean Water Agencies	BDO Interest Income	4,000	-	-	497	497	-	-	497	497
800	Bay Area Clean Water Agencies	BDO Assoc.&Affiliate Contr	168,300	-	-	-	-	-	-	-	-
	BACWA TOTAL		**679,154**	**-**	**-**	**497**	**497**	**-**	**-**	**497**	**497**
802	AIR-Air Issues&Regulation Grp	BDO Member Contributions	81,120	-	-	-	-	-	-	-	-
802	AIR-Air Issues&Regulation Grp	BDO Interest Income	-	-	-	15	15	-	-	15	15
	AIR TOTAL		**81,120**	**-**	**-**	**15**	**15**	**-**	**-**	**15**	**15**
803	BAPPG-BayAreaPollutnPreventGrp	BDO Interest Income	-	-	-	42	42	-	-	42	42
	BAPPG TOTAL		**-**	**-**	**-**	**42**	**42**	**-**	**-**	**42**	**42**
805	WQA-WtrQualityAttainmntStratgy	BDO Member Contributions	675,000	-	-	-	-	-	-	-	-
805	WQA-WtrQualityAttainmntStratgy	BDO Other Receipts	627,369	8,153	-	-	8,153	8,153	-	-	8,153
805	WQA-WtrQualityAttainmntStratgy	BDO Interest Income	-	-	-	399	399	-	-	399	399
	WQA CBC TOTAL		**1,302,369**	**8,153**	**-**	**399**	**8,551**	**8,153**	**-**	**399**	**8,551**

BACWA Revenue Detail Report for July 2014

DEPTID	DEPARTMENT	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE			
				DIRECT	INVOICED	JVS	ACTUAL	DIRECT	INVOICED	JVS	ACTUAL
807	Regional Water Recycling	BDO Interest Income	-	-	-	10	10	-	-	10	10
	RWR TOTAL		**-**	**-**	**-**	**10**	**10**	**-**	**-**	**10**	**10**
810	WOT - Wtr/Wwtr Operat Training	BDO Interest Income	-	-	-	33	33	-	-	33	33
	WOT TOTAL		**-**	**-**	**-**	**33**	**33**	**-**	**-**	**33**	**33**
811	Prop84BayAreaIntegRegnlWtrMgmt	BDO Interest Income	-	-	-	112	112	-	-	112	112
811	Prop84BayAreaIntegRegnlWtrMgmt	Administrative Support	-	-	91,906	-	91,906	-	91,906	-	91,906
811	Prop84BayAreaIntegRegnlWtrMgmt	CCCSD-Concord RW Pipeline	-	-	978,500	-	978,500	-	978,500	-	978,500
811	Prop84BayAreaIntegRegnlWtrMgmt	Central Dublin RW Project	-	-	56,500	-	56,500	-	56,500	-	56,500
811	Prop84BayAreaIntegRegnlWtrMgmt	EBMUD East Bayshore I-80 PL	-	-	703,950	-	703,950	-	703,950	-	703,950
811	Prop84BayAreaIntegRegnlWtrMgmt	Novato So. Area, Hamilton Fiel	-	-	31,250	-	31,250	-	31,250	-	31,250
811	Prop84BayAreaIntegRegnlWtrMgmt	South Bay Salt Pond Habitat Re	-	-	63,250	-	63,250	-	63,250	-	63,250
811	Prop84BayAreaIntegRegnlWtrMgmt	Regional Green Infrastructure	-	-	33,760	-	33,760	-	33,760	-	33,760
811	Prop84BayAreaIntegRegnlWtrMgmt	Water Efficient LRP	-	-	65,230	-	65,230	-	65,230	-	65,230
811	Prop84BayAreaIntegRegnlWtrMgmt	Bay Friendly Landscape TP	-	-	78,374	-	78,374	-	78,374	-	78,374
811	Prop84BayAreaIntegRegnlWtrMgmt	Weather Based Irrigation Cntrl	-	-	3,924	-	3,924	-	3,924	-	3,924
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Toilet & UR	-	-	134,098	-	134,098	-	134,098	-	134,098
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Toilet & UI	-	-	33,359	-	33,359	-	33,359	-	33,359
811	Prop84BayAreaIntegRegnlWtrMgmt	Napa Co. Rainwater HP	-	-	6,566	-	6,566	-	6,566	-	6,566
811	Prop84BayAreaIntegRegnlWtrMgmt	Conservation Program Admin	-	-	7,106	-	7,106	-	7,106	-	7,106
811	Prop84BayAreaIntegRegnlWtrMgmt	Flood Infrastructure Mapping T	-	-	9,647	-	9,647	-	9,647	-	9,647
811	Prop84BayAreaIntegRegnlWtrMgmt	Stormwater Improvements & PBP	-	-	5,378	-	5,378	-	5,378	-	5,378
811	Prop84BayAreaIntegRegnlWtrMgmt	Pescadero Integrated FRAH	-	-	14,417	-	14,417	-	14,417	-	14,417
811	Prop84BayAreaIntegRegnlWtrMgmt	Restoration Guidance, San FC	-	-	18,549	-	18,549	-	18,549	-	18,549
811	Prop84BayAreaIntegRegnlWtrMgmt	SF Estuary Steelhead MP	-	-	28,306	-	28,306	-	28,306	-	28,306
811	Prop84BayAreaIntegRegnlWtrMgmt	Watershed Program Admnstrtn	-	-	2,497	-	2,497	-	2,497	-	2,497
	PRP84 TOTAL		**-**	**-**	**2,366,566**	**112**	**2,366,678**	**-**	**2,366,566**	**112**	**2,366,678**
814	CBC Operating Resrve Fnd	BDO Interest Income	-	-	-	969	969	-	-	969	969
	CBC OPRSRV TOTAL		**-**	**-**	**-**	**969**	**969**	**-**	**-**	**969**	**969**
815	Prop50BayAreaIntegRegnlWtrMgmt	BDO Interest Income	-	-	-	64	64	-	-	64	64
	PRP50 TOTAL		**-**	**-**	**-**	**64**	**64**	**-**	**-**	**64**	**64**
GRAND TOTAL			**2,062,643**	**8,153**	**2,366,566**	**2,139**	**2,376,858**	**8,153**	**2,366,566**	**2,139**	**2,376,858**

BACWA Expense Detail Report for July 2014

DEPTID	DEPARTMENT	EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
				ENC	PV	DA	JV	ENC	PV	DA	JV		
800	Bay Area Clean Water Agencies	BC-Collections System	26,000	22,546	2,580	-	(850)	22,546	2,580	-	(850)	24,276	1,724
800	Bay Area Clean Water Agencies	BC-Permit Committee	1,000	-	-	-	-	-	-	-	-	-	1,000
800	Bay Area Clean Water Agencies	BC-Water Recycling Committee	8,365	7,365	-	-	-	7,365	-	-	-	7,365	1,000
800	Bay Area Clean Water Agencies	BC-Biosolids Committee	5,000	-	-	-	-	-	-	-	-	-	5,000
800	Bay Area Clean Water Agencies	BC-InfoShare Groups	12,000	26,152	-	-	-	26,152	-	-	-	26,152	(14,152)
800	Bay Area Clean Water Agencies	BC-Laboratory Committee	7,000	-	-	-	-	-	-	-	-	-	7,000
800	Bay Area Clean Water Agencies	BC-Miscellaneous Committee Sup	28,064	152,959	-	-	-	152,959	-	-	-	152,959	(124,895)
800	Bay Area Clean Water Agencies	LS-Regulatory Support	4,475	4,475	-	-	-	4,475	-	-	-	4,475	-
800	Bay Area Clean Water Agencies	LS-Executive Board Support	2,000	2,028	-	-	-	2,028	-	-	-	2,028	(28)
800	Bay Area Clean Water Agencies	CAS-PSSEP	20,000	-	-	-	-	-	-	-	-	-	20,000
800	Bay Area Clean Water Agencies	CAS-CPSC	5,000	-	-	-	-	-	-	-	-	-	5,000
800	Bay Area Clean Water Agencies	CAS-PSI	500	-	-	-	-	-	-	-	-	-	500
800	Bay Area Clean Water Agencies	CAR-BACWA Annual Report	1,000	-	-	-	-	-	-	-	-	-	1,000
800	Bay Area Clean Water Agencies	CAR-BACWA Website Development/	8,300	2,260	-	-	-	2,260	-	-	-	2,260	6,040
800	Bay Area Clean Water Agencies	AS-BACWA Admin Expense	5,500	-	-	84	-	-	-	84	-	84	5,416
800	Bay Area Clean Water Agencies	CAR-Other Communications	200	-	-	-	-	-	-	-	-	-	200
800	Bay Area Clean Water Agencies	GBS- Meeting Support	15,600	877	123	-	(300)	877	123	-	(300)	700	14,900
800	Bay Area Clean Water Agencies	AS-Executive Director	178,500	178,500	-	-	-	178,500	-	-	-	178,500	-
800	Bay Area Clean Water Agencies	AS-Assistant Executive Directo	76,500	68,667	7,038	7,007	-	68,667	7,038	7,007	-	82,712	(6,212)
800	Bay Area Clean Water Agencies	AS-EBMUD Administrative Servic	40,000	57,305	-	-	(3,000)	57,305	-	-	(3,000)	54,305	(14,305)
800	Bay Area Clean Water Agencies	AS-Insurance	4,500	-	-	-	-	-	-	-	-	-	4,500
800	Bay Area Clean Water Agencies	BC-Pretreatment Committee	1,000	-	-	-	-	-	-	-	-	-	1,000
800	Bay Area Clean Water Agencies	BC-BAPPG	81,000	-	-	-	-	-	-	-	-	-	81,000
800	Bay Area Clean Water Agencies	CAS-CWCCG	25,000	-	-	-	-	-	-	-	-	-	25,000
800	Bay Area Clean Water Agencies	AS-Regulatory Program Manager	120,000	-	-	-	-	-	-	-	-	-	120,000
800	Bay Area Clean Water Agencies	BDO-CAS-Stanford ERC	10,000	-	-	-	-	-	-	-	-	-	10,000
800	Bay Area Clean Water Agencies	CAS-FWQC	5,000	-	-	-	-	-	-	-	-	-	5,000
	BACWA TOTAL		**691,504**	**523,133**	**9,741**	**7,091**	**(4,150)**	**523,133**	**9,741**	**7,091**	**(4,150)**	**535,815**	**155,689**
802	AIR-Air Issues&Regulation Grp	Administrative Support	4,056	-	-	-	-	-	-	-	-	-	4,056
802	AIR-Air Issues&Regulation Grp	BDO Contract Expenses	77,064	77,064	-	-	-	77,064	-	-	-	77,064	(0)
	AIR TOTAL		**81,120**	**77,064**	**-**	**-**	**-**	**77,064**	**-**	**-**	**-**	**77,064**	**4,056**
803	BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Emerging Issues	8,044	10,393	-	-	-	10,393	-	-	-	10,393	(2,349)
803	BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Other	-	5,050	-	-	-	5,050	-	-	-	5,050	(5,050)
803	BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Multi-Pollutant	-	16,001	-	-	-	16,001	-	-	-	16,001	(16,001)
	BAPPG TOTAL		**8,044**	**31,443**	**-**	**-**	**-**	**31,443**	**-**	**-**	**-**	**31,443**	**(23,399)**
805	WQA-WtrQualityAttainmntStratgy	WQA-CE-Technical Support	377,369	471,190	2,870	-	(43,200)	471,190	2,870	-	(43,200)	430,861	(53,492)

805	WQA-WtrQualityAttainmntStratgy	WQA-CE-Collaborations & Sponso	-	-	-	5,000	-	-	-	5,000	-	5,000	(5,000)
805	WQA-WtrQualityAttainmntStratgy	WQA-CE-Commun. & Reporting	21,000	6,000	-	-	-	6,000	-	-	-	6,000	15,000
805	WQA-WtrQualityAttainmntStratgy	WQA-CE-Other	-	32,219	-	-	-	32,219	-	-	-	32,219	(32,219)
805	WQA-WtrQualityAttainmntStratgy	WQA-CE-Nutrient WS Permit Comm	880,000	-	-	-	-	-	-	-	-	-	880,000
805	WQA-WtrQualityAttainmntStratgy	WQA-CE-Nutrient Tech Support	450,000	-	-	-	-	-	-	-	-	-	450,000
805	WQA-WtrQualityAttainmntStratgy	WQA-CE Risk Reduction	15,000	-	-	-	-	-	-	-	-	-	15,000
	WQA CBC TOTAL		**1,743,369**	**509,409**	**2,870**	**5,000**	**(43,200)**	**509,409**	**2,870**	**5,000**	**(43,200)**	**474,080**	**1,269,289**
811	Prop84BayAreaIntegRegnlWtrMgmt	Administrative Support	-	500	-	-	-	500	-	-	-	500	(500)
811	Prop84BayAreaIntegRegnlWtrMgmt	BDO Contract Expenses	-	23,951	4,778	-	-	23,951	4,778	-	-	28,728	(28,728)
811	Prop84BayAreaIntegRegnlWtrMgmt	CCCSD-Concord RW Pipeline	-	-	-	978,500	-	-	-	978,500	-	978,500	(978,500)
811	Prop84BayAreaIntegRegnlWtrMgmt	Central Dublin RW Project	-	-	-	56,500	-	-	-	56,500	-	56,500	(56,500)
811	Prop84BayAreaIntegRegnlWtrMgmt	EBMUD East Bayshore I-80 PL	-	-	-	703,950	-	-	-	703,950	-	703,950	(703,950)
811	Prop84BayAreaIntegRegnlWtrMgmt	Sonoma Valley RWP Stage 1	-	-	-	31,250	-	-	-	31,250	-	31,250	(31,250)
811	Prop84BayAreaIntegRegnlWtrMgmt	Bair Island Restoration	-	-	-	63,250	-	-	-	63,250	-	63,250	(63,250)
811	Prop84BayAreaIntegRegnlWtrMgmt	Regional Green Infrastructure	-	-	-	33,760	-	-	-	33,760	-	33,760	(33,760)
811	Prop84BayAreaIntegRegnlWtrMgmt	Water Efficient LRP	-	-	-	65,230	-	-	-	65,230	-	65,230	(65,230)
811	Prop84BayAreaIntegRegnlWtrMgmt	Bay Friendly Landscape TP	-	-	-	78,374	-	-	-	78,374	-	78,374	(78,374)
811	Prop84BayAreaIntegRegnlWtrMgmt	Weather Based Irrigation Cntrl	-	-	-	3,924	-	-	-	3,924	-	3,924	(3,924)
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Toilet & UR	-	-	-	134,098	-	-	-	134,098	-	134,098	(134,098)
811	Prop84BayAreaIntegRegnlWtrMgmt	High Efficiency Toilet & UI	-	-	-	33,359	-	-	-	33,359	-	33,359	(33,359)
811	Prop84BayAreaIntegRegnlWtrMgmt	Napa Co. Rainwater HP	-	-	-	6,566	-	-	-	6,566	-	6,566	(6,566)
811	Prop84BayAreaIntegRegnlWtrMgmt	Conservation Program Admin	-	-	-	7,106	-	-	-	7,106	-	7,106	(7,106)
811	Prop84BayAreaIntegRegnlWtrMgmt	Flood Infrastructure Mapping T	-	-	-	9,647	-	-	-	9,647	-	9,647	(9,647)
811	Prop84BayAreaIntegRegnlWtrMgmt	Stormwater Improvements & PBP	-	-	-	5,378	-	-	-	5,378	-	5,378	(5,378)
811	Prop84BayAreaIntegRegnlWtrMgmt	Pescadero Integrated FRAH	-	-	-	14,417	-	-	-	14,417	-	14,417	(14,417)
811	Prop84BayAreaIntegRegnlWtrMgmt	Restoration Guidance, San FC	-	-	-	18,549	-	-	-	18,549	-	18,549	(18,549)
811	Prop84BayAreaIntegRegnlWtrMgmt	SF Estuary Steelhead MP	-	-	-	28,306	-	-	-	28,306	-	28,306	(28,306)
811	Prop84BayAreaIntegRegnlWtrMgmt	Watershed Program Admnstrtn	-	-	-	2,497	-	-	-	2,497	-	2,497	(2,497)
	PRP84 TOTAL		**-**	**24,451**	**4,778**	**2,274,660**	**-**	**24,451**	**4,778**	**2,274,660**	**-**	**2,303,888**	**(2,303,888)**
815	Prop50BayAreaIntegRegnlWtrMgmt	Administrative Support	-	500	-	-	-	500	-	-	-	500	(500)
815	Prop50BayAreaIntegRegnlWtrMgmt	BDO Contract Expenses	-	14,320	3,233	-	-	14,320	3,233	-	-	17,553	(17,553)
	PRP50 TOTAL		**-**	**14,820**	**3,233**	**-**	**-**	**14,820**	**3,233**	**-**	**-**	**18,053**	**(18,053)**
GRAND TOTAL			**2,524,037**	**1,180,321**	**20,621**	**2,286,751**	**(47,350)**	**1,180,321**	**20,621**	**2,286,751**	**(47,350)**	**3,440,343**	**(916,306)**

Executive Board Special Meeting Minutes

Tuesday, September 9, 2014, 8:00 a.m. – 9:00 a.m.
TELECONFERENCE

ROLL CALL AND INTRODUCTIONS
Executive Board Representatives: Mike Connor, Chair (East Bay Dischargers Authority); Amy Chastain (San Francisco Public Utilities Commission); Jim Ervin (San Jose); Ben Horenstein (East Bay Municipal Utility District); Melody LaBella (Central Contra Costa Sanitary District), Roger Bailey (Central Contra Costa Sanitary District).

Other Attendees: Dave Williams (BACWA), Joanna De Sa (San Jose).

PUBLIC COMMENT
None

OTHER BUSINESS
A Contract between BACWA and HDR for Optimization and Upgrade Studies was discussed. Following the discussion a motion was made by Roger Bailey and seconded by Ben Horenstein. The motion was approved unanimously.

ADJOURNMENT The meeting adjourned at 8:25 a.m.

Teleconference Locations:

San Francisco Public Utilities Commission
525 Golden Gate Ave
San Francisco, CA 94102

East Bay Municipal Utility District
375 11th Street, 7th Floor
Oakland, CA 84607

Central Contra Costa Sanitary District
5019 Imhoff Place
Martinez, CA 94553

East Bay Discharger's Association
2651 Grant Avenue
San Lorenzo, CA 94580

San Jose/Santa Clara Water Pollution Control Plant
700 Los Esteros Road
San Jose, CA 95134

AIR Committee – Report to BACWA Board

AIR Committee Meeting on: 9/17/14
Executive Board Meeting Date: 9/26/14
Committee Co-Chairs: Nohemy Revilla and Randy Schmidt

Committee Request for Board Action: None

Meeting held at the CH2M HILL office in Oakland.
15 attendees, representing 9 member agencies

Committee Update:
Elyse Engel of CH2M HILL provided an overview of regulatory issues and grant opportunities: http://bacwa.org/Portals/0/Committees/AirIssuesRegulations/Archive/2014Sept17-AIR_Mtg_FINAL.pdf. Additionally, the AIR Committee is considering alternative meeting dates to better coordinate with the BACWA Executive Board meeting schedule in 2015.

California Wastewater Climate Change Group (CWCCG) Regulatory Update:
Sarah Deslauriers, the Program Manager for CWCCG, presented an update of greenhouse gas (GHG) regulations as they relate to Publicly Owned Treatment Works (POTWs). The full presentation can be found at http://bacwa.org/Portals/0/Committees/AirIssuesRegulations/Archive/sd0914BACWA-AIRUpdate.pdf, and has much more detail than the presentation she gave at the August Executive Board meeting. Some key points from the presentation are as follows:

- Sarah described in detail the Assembly Bill (AB) 32 Scoping Plan Update's goals for 9 economic sectors. The Water and Waste Management sectors are particularly relevant to BACWA members.
- The Scoping Plan Update's Water sector goals include:
  - developing incentives for resource-recovery wastewater treatment projects by 2015,
  - modifying state and regional water board policies and permits to encourage conservation, water recycling, stormwater reuse, and wastewater-to-energy goals by 2016, and
  - implementing green infrastructure permits to treat and capture urban run-off by 2016.
- To achieve these Water sector goals, the California Natural Resources Agency, California Department of Food and Agriculture, and California Environmental Protection Agency developed an action plan to be implemented in the next 5 years. The plan includes: energy conservation throughout California; increased self-reliance and integrated water management across all levels of government; achieving co-equal goals for the Delta; protecting and restoring ecosystems; preparing for and managing dry periods; expanded water storage capacity and improved groundwater management; safe water for all communities; increased flood protection; increased operational and regulatory efficiency; and identifying sustainable and integrated financing opportunities.
- The Scoping Plan Update's Waste Management sector goals include:
  - eliminating the disposal of organic materials to landfills with compliance actions in place by 2016,
  - funding California waste recovery infrastructure, and
  - addressing composting and anaerobic digestion challenges, including permitting.

Nexus with Nutrient Watershed Permit:

- There was discussion on AB 2561, which would require the creation of a database populated with studies/reports/data on the rise of sea level provided by public agencies. The Governor will sign or veto the bill by 9/30. If the bill passes, facilities will need to analyze and protect against the rise in sea level predicted based on data in the database. This bill has potential implications on the Facilities Upgrade report, since the permit requires consideration of the impact of sea level rise on future facilities.
- Lorien Fono mentioned that BACWA has hired HDR to lead the optimization and upgrade studies, part of which will quantify GHG emissions for alternatives considered under the watershed nutrient removal project. Questions arose as to the scope of the assessments, sources that would be analyzed, and the type of emissions accounting that would be applied.

Next Meeting: The next meeting will be held Wednesday, November 19 at the East Bay Municipal Utility District (EBMUD) facility, located 2020 Wake Ave. in Oakland. Participants will tour the turbine and the high-strength waste blending facilities. Staff will give a presentation on EBMUD's energy recovery efforts.

Annual Newsletter: The AIR annual newsletter is finalized and posted: http://bacwa.org/Portals/0/Committees/AirIssuesRegulations/Library/BACWA%20AIR%202014%20Newsletter%20Final.pdf.

Committee Budget: $16,500 of $77,064 spent as of September 5, 2014

Collection Systems Committee Report to BACWA Board

September 19, 2014
From: Vince Falzon, Committee Chair
Prepared By: Steve Bui

Committee Request for Board Action: None

Highlights of New Items Discussed and Action Items

San Bruno Gas Line Explosion, from City's Perspective

Dennis Bosch, stormwater/wastewater superintendent for the City of San Bruno, presented the City's perspective on the San Bruno Gas Line Explosion that occurred on September 9, 2010. The objectives of the presentation were to share with the committee: 1) what went well and what didn't; 2) ideas to consider implementing for the future; and 3) warning signs to watch out for. Rich Cunningham also shared his experience from San Francisco after the 1989 Loma Prieta earthquake. Dennis' presentation will be made available on the BACWA website.

Reporting Residual SSO Amounts

Debra Lutske from SFPUC requested other committee member perspectives on quantifying a small sanitary sewer overflow (SSO) at the City's Treasure Island facilities and reporting it to the California Integrated Water Quality System (CIWQS). A common theme in the input provided was to make sure that SSO estimates are backed up with documented assumptions and calculations of the estimated amount.

New Precedent for SSO Penalties

The Central Coast Regional Water Board fined Santa Cruz County for three SSOs totaling 136,411 gallons

A new precedent was that half of the County's penalty will go towards fixing the problem that caused the SSO.

Other Collection System New Items

The East Bay Municipal Utility District and East Bay communities will be discussing their new consent decree at the committee meeting in October, in addition, David Patzer from the California Sanitation Risk Management Authority (CSRMA) will be presenting information about the new SSO mobile app. The price for using the app varies depending on the size of the collection system. For CSRMA members, the app can be used for one year at no cost if the collection system is less than 500 miles. For systems over 500 miles, the cost is $174 per year.

Announcements of Upcoming Training, Conferences, and Meetings

- The Santa Clara Valley and Northern San Joaquin Section are presenting Northern Safety Day 2014 in Woodland on October 22.
- National Association of Sewer Service Companies (NASSCO) is holding a Pipeline Assessment and Certification Program (PACP) classes in Alameda from November 12-14.
- The Maintenance Superintendent Association is holding their annual conference and equipment show in Sacramento starting September 29.
- California Water Environmental Association San Francisco (CWEA SF) Bay Section will host a vendor and equipment show on October 16 at USD.
- The American Traffic Safety Services Association (ATSSA) will be holding flagger and traffic training at the Union City Corp Yard on October 23. Fees are $85 for members and $185 for non-members.

Next Collection System Committee Meeting

Our next committee meeting will be held on October 2, at 1:30 PM, at the Boy Scouts facility in San Leandro.

Maintenance Subgroup BAMI
Meeting Minutes
July 30, 2014 at DSRSD

ATTENDEES

Scott von der Lieth, OLSD
Kirk Howard, FSSD
Ike Bell, EBMUD
Dan Lopez, DSRSD
Maurice Atenido, DSRSD
Steve Delight, DSRSD
Christine Spencer, SFPUC
Matthew Mahoney, CCCSD
Dan Hammons, Sunnyvale
Mike Dixon, DD
Mike Barnes, K/J

DISCUSSION ITEMS

Vibration Analysis

OLSD monitors two influent pumps due to criticality. The analyses have led to a proactive rebuild due to a bearing issue.

CCCSD contracts with CalTrol (previously Redline) to monitor 84 pieces of equipment. This is less equipment than in past. They are reviewing how to track the data from the reports.

SFPUC monitors 47 pieces of equipment and tracks them using the Job Plan in Maximo. 3-4 items per year are out of limits and are corrected. They code corrections in their work order system and can track the labor and materials costs for the correction. They use criticality to determine which pieces of equipment are analyzed.

FSSD noted that two previous contract operators choose to use vibration analysis, and one chose not to use. FSSD does not use vibration analysis.

DSRSD used to contract with Redline for vibration analysis. However, DSRSD found that problems reported by Redline were often difficult to find, and the District seldom made corrections based on the Redline analyses. Consequently, they no longer use vibration analysis. They have vibration sensors on the LAVWMA pumps.

EBMUD has vibration sensors on 24 pieces of critical equipment with alarms in their DCS. They complete quarterly analyses of 30 pieces of "second tier" equipment using an outside firm. They don't complete any vibration analysis in house since it's expensive to develop the skill set to analyze the data. It's difficult to determine the ROI on the

vibration analyses since you can't easily quantify the value of an unplanned failure that doesn't occur.

DD completed quarterly vibration analysis on 15 pieces of equipment for about 2-3 years using Pretech. The analyses lead to some minor maintenance. They no longer complete vibration analysis. They have on-one monitoring and alarming of some critical equipment. The alarms are primarily triggered by rags. Getting a baseline vibration reading after equipment is newly installed would be a good idea.

Sunnyvale does not use vibration analysis.

Digester Gas Flow Meters

FSSD uses FCI model 88

DSRSD replaced FCI with Kurz. They believe the Kurz devices perform better, with less erratic readings.

Sunnyvale uses the FCI model GFI 90. They are planning to replace some of FCI meters with the Endress and Hauser ultrasonic flow meter on their current digester project. They have the Roots positive displacement meters for their cogen engine.

EBMUD uses FCI, but they plan to replace them with Kurz. They use a Roots meter for their cogen.

SCADA Technician Positions

DD asked if anyone has a position description for a SCADA technician that has a higher pay grade than an Instrument Tech. DSRSD has an Operations Control System Specialist. Sunnyvale has a draft description for a Process Control Specialist

DSRSD Cogeneration Control System

DSRSD gave a presentation of their new cogeneration gas blending system. The gas blending system consists of a controller by Woodward that varies the addition of digester gas based on digester gas dome pressure, and blends natural gas to satisfy cogen demand while meeting emissions standards. Woodward developed the controller within the last year and it is the first installation in California. It was challenging to tune the system since the digester gas pressure can vary quickly since there is no digester gas storage. However, the system is now operating reliably with the current tuning.

ACTION ITEMS

1. None

BACKLOG

- SF PUC Green Building (CS 2/13)

- SF PUC asset management (CS 7/14)
- Laney College-Industrial Mechanical Maintenance Machinery- Steering Committee (IB 2/12)
- EBMUD Turbine tour

NEXT MEETING

October 22, 2014 at the SF PUC office building

BACWA - Information Sharing Group
Meeting Minutes
August 27, 2014
10:00-2:00 at CMSA

ATTENDEES

Dave Freitas, EBMUD
Doug Little, CCCSD
Chris Finton, CMSA
Jason Dow, CMSA
Dave Livingston, USD
Bryan Berdeen, Sunnyvale
Brian Hawley, FSSD
Richard Althouse, FSSD
Mick Berklich, SRWTP
Helen Hu, SRWTP
Mike Barnes, KJ

DISCUSSION ITEMS

CMSA Food Waste to Energy Program

Jason Dow gave a presentation on the development and initial operation of the CMSA program to add pre-consumed restaurant waste to their anaerobic digesters. The program was a joint effort between CMSA and the Marin Sanitary Service (MSS), which is the local solid waste hauler.

MSS collects the food waste is collected by Marin from about 57 restaurants and then transports it to the MSS processing facility where they manually remove debris and then grind it. MSS delivers the ground material to the CMSA food waste receiving facility.

The CMSA food waste receiving facility is a below grade concrete tank that designed to receive both FOG and food waste. The tank is mixed using chopper pumps and jet nozzles. CMSA has been receiving both FOG and food waste, and have been able to use the FOG as the liquid to create a slurry with the food waste.

As a part of this program, CMSA rehabilitated their digesters with pumped mixing and membrane covers. They also replaced their iron sponge sulfide removal system with a SulfaTreat system.

Vacancies among Agencies

Sac Regional has had difficulty finding mechanics. They also have 6 openings for supervisors and 11 opening for senior operators. They have had a 60-70% turnover in the past 5 years. They noted that regulators have wanted records of their training.

Sunnyvale needs mechanics.

FSSD requires new operations hires to obtain their Grade III within a defined time to maintain their employment.

Succession Planning

CCCSD is in the process of developing a succession planning document. They are looking at key functions versus key positions in terms of value to the organization and are considering developing a matrix that would identify critical areas of focus based on projected attrition, redundancy of position and perceived short term impact to the organization in the absence of that position. They are also considering directing staff development toward positions or groups that rate high on the matrix.

Sac Regional. Knowledge retention is key concern. Need 2 years to train an operator. They started a leadership program for managers. May start a training program for O&M staff.

EBMUD's training program requires that the participants commit to do homework on their own time. Prefer to use their training program to develop operators.

CMSA prefers to use their training program to develop operators.

Training time

Sunnyvale spends about 20% of their available time on training.

FSSD spends about 200-350 hours per FTE per year for training.

CCCSD builds 416 training hours into their operations training schedule.

ACTION ITEMS

- None

NEXT MEETING SUGGESTION ITEMS

- Influent flow decreases (8/14)
- Sunnyvale peracetic acid addition (BB 8/14)
- Baywork presentation by Cheryl Davis of SF PUC (9/13)
- Operations Metrics discussion

NEXT MEETING

- November 19, 2014 (Tentatively at Sunnyvale, Bryan to check)

Laboratory Committee – Report to BACWA Board

Laboratory committee meeting on: 13 August 14
Committee Chair: Noel Enoki

Committee Request for Board Action: None

Audits:

- Ken/SFPUC brought up the definition/clarification of LFB and LCS as defined by Standard Methods versus his auditor's interpretation that LFB and LCS were not equivalent.

Regulatory developments:

- Some committee members have received revised DMR forms with the addition nutrient monitoring constituents with projected Oct 2014 start date for electronic reporting.

Open forum:

- Discussion of residual chlorine analysis/monitoring utilizing the titration method and the inclusion of an LCS solution for each analytical batch as interpreted from the 2012 MUR. A question of whether field personnel/operators should also be held to the same requirement(s) if they are also performing the procedure?
- Noel/SJ asked members for input on evaluation and implementation of performance based MDLs. EBMUD had previous experience but no longer uses the protocol. EBMUD used a general guideline of ± 50% recovery of analytes. It was agreed that performance based methods were not suitable for organic analyses.
- ELTAC announcement of Christine Sotelo as head of ELAP and Cindy Forbes as the Deputy Director of the State Board's new Division of Drinking Water (DDW).
- Samantha/PA asked for member input as to the definition of composite sample time for Permit related sampling. A majority of members collected composites from 8-8 or 12-12. A discussion followed on sampling time/intervals and the incorporation or relationship of flow parameters.
- A question of what time was considered for meeting holdtime/pretreatment requirements (start or end time) members agreed that the start time should be used in meeting these requirements (i.e. filtering reactive phosphorus). So in the case of reactive phosphorus, filtration should within 15 minutes but not necessarily be completed within 15 minutes.
- Nirmela/EBMUD requested member input regarding the recruitment of qualified Lab Supervisors with the required skill set for the position.

Focus topics:

- To be determined.

Training Opportunities:

- Guy/USD suggested a possible vendor presentation (Micro V) to introduce a biological aid that is currently being studied at USD for the WW treatment process.
- Nirmela has asked Martha Maier/Vista for an October presentation on HRMS data evaluation.
- Nirmela has made preliminary contact with NWETC (Northwestern Environmental Training Center) for possible BACWA Lab sponsored training event (Introduction to Aquatic Toxicology)
- Upcoming Nutrient Symposium mentioned at Permits committee with $50 entry fee

Action Items:

- Noel will send out email from ELTAC announcing new ELAP head
- Nirmela will send out email from CWEA for Chronic Toxicity in Wastewater Treatment

Next BACWA Laboratory Committee Meeting: Wednesday, September 10, 2014, at EBMUD Laboratory Library.

Laboratory Committee – Report to BACWA Board

Laboratory committee meeting on: 10 September 14
Committee Chair: Noel Enoki

Committee Request for Board Action: None

Audits:

- No audits mentioned or noted from members present at the meeting

Regulatory developments:

- Nirmela presented a Powerpoint summary of the EPA's "Sufficiently Sensitive Analytical Test Methods" to the Permits Committee. Key points/aspects were noted with a brief discussion of MLs related to water quality criterion, permits limits; matrix specific MDLs; application to chemical specific methodologies only;
- The projected submission date for the new DMR format (with the addition nutrient monitoring constituents) is September 2014 and not Oct 2014.

Open forum:

- Discussion of studies/pilots utilizing AnitaMox and Anammox for ammonia removal at several members' facilities (USD, CCCSD, EBMUD).
- Guy Moy (USD) inquired whether other Laboratories maintained MSDS information for household chemicals. The general consensus was that MSDS information for household chemicals was not normally archived for reference.

Focus topics:

- Presentation by Pete Schafer, Aquatic Toxicologist from the City of San Jose on "Chronic Toxicity in Wastewater Treatment". General focus was on San Jose's experience in addressing it toxicity issues and the novel implementation of "paralysis" tracking for ceriodaphnia.

Training Opportunities:

- Martha Maier from Vista Analytical Laboratory will provide an overview of HRMS analytical work/reporting to the Lab Committee for the October meeting.

Action Items:

- Noel will upload Pete Schafer's presentation to the BACWA Laboratory group site.
- Nirmela upload a copy of her summary for "Sufficiently Sensitive Analytical Test Methods" that was presented to the Permits Committee.

Next BACWA Laboratory Committee Meeting: Wednesday, October 8, 2014, at EBMUD Laboratory Library.

Permits Committee – Report to BACWA Board

Permits Committee Meeting on: 8/12/14
Executive Board Meeting Date: 9/26/14
Committee Chair: Meg Herston

Committee Request for Board Action: None

25 attendees representing 17 BACWA member agencies (including 6 on phone)

Adoption of Permits/Permit Amendments:

August – *Delta Diablo* – Delta Diablo staff are generally happy with their permit. Their permit writer said that any changes in the now-standard permit language about chlorine residual reporting that is incorporated into the San Jose and Sunnyvale permits can be incorporated into Delta Diablo's permit as an administrative change.

September – *San Jose* – San Jose is generally happy with their tentative order. They submitted a comment letter on residual chlorine monitoring, protesting their receiving water monitoring requirements on the basis that they won't yield useful data, and asking for a designation of net environmental benefit since all the reasons for the previous finding of equivalent protection are now no longer applicable. For chlorine residual reporting, San Jose, and other recent permittees are being required to report the maximum daily measurement from all data points, rather than just the data points collected at the top of each hour. False positives will require an explanation, which is onerous. Jim Ervin has spoken to Bill Johnson, who says he's working on updating the chlorine residual language so that it will not impose an undue burden or disincentivize continuous monitoring. See BACWA's comment letter.

Sunnyvale – Sunnyvale also commented on the receiving water monitoring requirement and the chlorine residual reporting. See BACWA's comment letter.

EBMUD – Heidi Oriol gave a presentation on the consent decree. See next section.

EBMUD Consent Decree Negotiations

Heidi Oriol from EBMUD attended the meeting and gave a presentation. Key points were:

- EBMUD has been under prohibition to discharge from its wet weather facilities since 2007
- The Consent Decree, which will replace the stipulated order, was posted on July 31, 2014, and has a 30-day public comment period.
- The Consent Decree does not address blending at the main plant, but reducing I/I will significantly reduce the need to blend
- EBMUD and satellite agencies have a 22-year term to eliminate wet weather facility discharges for a design storm (which is a specific storm that occurred on December 5, 1952, roughly equivalent to a 10-13 year return period).
- The consent decree includes a technical program to identify sources of inflow and significant infiltration. This program will replace the sewer lateral rehabilitation program.
- Each satellite agency will need to address their private sewer laterals. With inspections upon home sales, approximately 78% of the sewer laterals will be addressed during the Consent Decree term.
- The consent decree can be viewed at: http://www.justice.gov/enrd/6479.htm

Bacterial Objectives

Amy Chastain and Lorien Fono attended the July 14 State Water Board focus group meeting, and presented the BACWA positions on the State Water Board issue paper that were developed at the July permits committee meeting. Key issues discussed were:

- The State Water Board is considering limited use designations to allow less stringent objectives where/when contact recreation does not occur
- They may include language encouraging Regional Water Boards to use mixing zones in developing effluent limits. This would help offset the lower enterococcus limits that are proposed, since Region 2 currently applies the receiving water limitations as end-of pipe-limits.
- BACWA urges the State Water Board to harmonize their policy with the Department of Public Health's rules. State Water Board pointed out this is unlikely since it would require legislative changes to DPH's rules.
- A draft is expected in winter 2014/15

Nutrients

- *Optimization/Upgrade Studies* – BACWA received four proposals and conducted three interviews. The Contract Management Group selected a top team and is currently in contract negotiations. Board approval of the contract is targeted for early September.
- *Nutrient Symposium* – The next symposium on Case Studies is planned for October 6, and will feature speakers who will discuss nutrient management experiences from five or six watersheds throughout the country. The Symposium Planning Group is working on finalizing the agenda.
- *Lower South Bay Synthesis* - Dave Senn gave a presentation on Lower South Bay Synthesis at the July Executive Board meeting. A draft of the document is expected in September.
- *Steering Committee* – The new Executive Workgroup will meet on August 27th to develop the agenda for the next steering committee meeting. The group will also discuss the potential role of a program coordinator.

Drought Relief

The committee discussed agencies' residential reuse programs, whereby residents can pick up Title 22 water from fill stations. DSRSD has a program with more than 200 residents who are permitted to pick up water, which they use to irrigate outdoor landscaping. CCCSD is setting up a fill station in their household hazardous waste facility. Some agencies have had trouble getting their programs permitted, since there's only one Regional Water Board staff person who permits recycled water.

Report Out from Executive Board Meeting on 7/18/14

- Christian Nilsen gave an update on ReNUWIt activities
- BACWA Executive Board will be meeting with Regional Water Board Staff on 8/18
- Other items were covered in previous agenda topics

Informational Items/Announcements

- *Rescheduling October meeting* – Meg will send out a doodle to reschedule the permits committee meeting, which conflicts with the RMP annual meeting.
- *Statewide Mercury Program meeting July 14 (invitation only) (link to summary document)* – Tim Potter attended the meeting. The Region 2 TMDL should not be impacted. There was recognition that the current funding mechanism for risk reduction is not working, but no suggestion for alternatives. There is a new beneficial use designation – for subsistence fishing and tribal use. A draft is expected in Winter 2014/15.
- *BACWA seeking feedback on updates to website*
- *No NPDES fee increases this year* – Fees will incorporate a previous surcharge, so they will appear to increase, but there will be no net change.
- *BACWA submitted a comment letter on the BDCP* – BACWA expressed concern that the EIR/EIS did not account for changes in nutrient and selenium loads to the San Francisco Bay. The letter also raised objection to the assertion made by the EIR/EIS that the North Bay Selenium TMDL would address any increases in selenium from the project
- *Comments on Human Health Criteria due Aug 13* – Fred Andes' group, the Federal Water Quality Coalition, will submit comments. BACWA supports the coalition. Meg will circulate the letter.
- *Nutrient Watershed Permit DMRs* – The DMRs require inputs for maximum daily values for all nutrients measured, which is inappropriate since they will be used to calculate loads. Since the DMRs are generated by the State Water Board, Robert Schlipf has said that he can't change them.
- eSMR2.5 is going live on October 1, but won't be mandatory until July 2015.

Next BACWA Permits Committee Meeting: Tuesday, September 8, 2014, at EBMUD Plant Library, Regional Water Board staff to attend.

Permits Committee – Report to BACWA Board

Permits Committee Meeting on: 9/9/14
Executive Board Meeting Date: 9/26/14
Committee Chair: Meg Herston

Committee Request for Board Action: None

22 attendees representing 12 BACWA member agencies (including 1 on phone)
Lila Tang from Regional Water Board in attendance

Regional Water Board Report-out (Lila Tang)

- *Staffing* – They have filled most of their vacant positions. Shin-Roei Lee has rotated to Region 1.
- *Continuous Chlorine Monitoring* – The Regional Water Board negotiated acceptable language with Sunnyvale for their permit. Permittees must report to CIWQS top-of-the-hour maxima, and any other on-hour data that exceed the limit. In the monthly letter they must report any exceedances between hourly readings. The new language is as follows:
  Effluent residual chlorine concentrations shall be monitored continuously or, at a minimum, every hour. The Discharger shall describe all excursions of the chlorine limit in the transmittal letter of self-monitoring reports as required by Attachment G section V.C.1.a. If monitoring continuously, the Discharger shall report through data upload to CIWQS, from discrete readings of the continuous monitoring every hour on the hour, the maximum for each day and any other discrete hourly reading that exceed the effluent limit, and, for the purpose of mandatory minimum penalties required by Water Code section 13385(i), compliance shall be based only on these discrete readings. The Discharger shall retain continuous monitoring readings for at least three years. The Regional Water Board reserves the right to use all continuous monitoring data for discretionary enforcement.
  The Discharger may elect to use a continuous on-line monitoring system for measuring or determining that residual dechlorinating agent is present. This monitoring system may be used to prove that anomalous residual chlorine exceedances measured by on-line chlorine analyzers are false positives and are not valid total residual chlorine detections because it is chemically improbable to have chlorine present in the presence of sodium bisulfite. If Regional Water Board staff finds convincing evidence that chlorine residual exceedances are false positives, the exceedances are not violations of this Order's total chlorine residual limit.
- *RMP and Receiving Water Monitoring* – The Regional Water Board wants more recent ambient water data than is currently available for areas near shallow water dischargers' outfalls. The RMP may expand monitoring in these areas, perhaps for a special fee from shallow water dischargers so that individual dischargers would not need to invest in boats and other sampling infrastructure. There may be opportunity to get synergy with the receiving water monitoring that will take place as part of the nutrient science work that BACWA is funding in compliance with the watershed permit.
- *Toxicity* **–** EPA Region IX sent a formal letter objecting to the lack of effluent limits in two of LACSD's draft permits, and making recommendations for implementing the TST as the toxicity test in these permits. (Lorien will follow up with LACSD and get more information to the permits committee on this).
- *Enforcement* – The State Water Board has been dealing with POTWs in other Regions who haven't regulated their industries, and is mounting an enforcement campaign to force them to develop pretreatment programs. This shouldn't impact Region 2, whose dischargers have robust pretreatment programs in place.

Adoption of Permits/Permit Amendments:

September – *San Jose and Sunnyvale* – There was no further discussion about these permits other than the continuous chlorine monitoring and receiving water monitoring issues discussed above.

November - *EBMUD* – The wet weather facilities' TO has been released and is based on the consent decree discussed at the August meeting.

Note: Fairfield-Suisun's permit renewal has been pushed out to January 2015.

San Jose Presentation on Net Environmental Benefit

Jim Ervin gave the presentation on San Jose's success at maintaining and enhancing beneficial uses that he gave at the BACWA Executive Board Meeting. Mike Connor pointed out that the presence of fish in the vicinity of the SJ-SC outfall is a good indicator that there is sufficient dissolved oxygen in the area (in reference to the impact of nutrients work being done by SFEI). There was a discussion of how potential zero discharge through water recycling would impact beneficial uses in the area.

Continuous Chlorine Residual Monitoring

There was a discussion in committee about a long-term solution to chlorine monitoring. There were 22 chlorine residual violations amongst our members since CIWQS began collecting data (approx. 2010). This is the most frequent parameter for violations, however, because there are 24 hourly reporting events each day, the "opportunities" for violations are enormous and the actual violation rates are infinitesimal (~0.001%). BACWA has worked with the Regional Water Board in the past on ways to ensure that violations reflect events that pose an actual water quality concern, rather than just being a momentary blip on a continuous monitoring device. The State Water Board is also working on such an effort, but has stalled, and Lila is concerned that if Region 2 took this on, the effort would be coopted by the State. Since there wasn't much interest in committee in pursuing this further, and agencies are happy with the language in the new Sunnyvale and San Jose permits (see Regional Water Board Report-out, above) it is recommended that this issue return to the back burner.

EPA Sufficiently Sensitive Methods

In 2010 EPA issued a proposed rule that would require use of "sufficiently sensitive" analytical methods in pollutant testing required for NPDES permit applications and Discharge Monitoring Reports (DMRs). The final rule is now published. BACWA relied on Fred Andes' Federal Water Quality Coalition to provide comments to the EPA, and below are the changes he reports compared to the proposed rule:

- The requirement to use a "sufficiently sensitive" test method now applies only to EPA-approved methods.
- When there is no approved method, the permit applicant can use any "suitable" method, and in selecting a suitable method, factors such as precision, accuracy and resolution can be considered.
- EPA has clarified that the rule "does not require the applicant to develop new methods."
- EPA has clarified that a method has to meet only one of its criteria to qualify as "sufficiently sensitive," so if the method's minimum level (ML) is at or below the level of the pollutant criterion or permit limit, then one can use it, even if there are other methods that are more sensitive.
- A permittee can use a matrix-specific or sample-specific ML, rather than the published ML.
- If the permittee can show that despite its good-faith efforts, the results from a method are not consistent with the QA/QC specifications for that method, then the agency can allow the permittee to use a different method.
- If the permittee is subject to a "zero discharge" or "no detect" requirement, and that limit was based on a technology that may not be able to achieve the ML of a new, more sensitive method, the agency can allow the permittee to use the test method on which the original requirement was based. (This should be particularly helpful for dischargers that have "no detect" limits for pollutants such as PCBs or mercury, which now have more-sensitive test methods.)

There was some discussion about whether method 1668C could now be used for compliance purposes (rather than informational purposes, as is listed in the Hg/PCB watershed permit). Nirmela reported that she thought so. A question came up regarding the proper mercury method to use for high-level samples (i.e. samples that are not ultra-clean, like influent and biosolids). The laboratory committee will work with Lila to work out a solution.

Nutrients

- *Optimization/Upgrade Studies* – The contract and scope of work for the studies was approved by the BACWA Executive Board, and will be executed shortly. HDR will lead the team for these studies. BACWA will be asking each agency for a point of contact who is at a high enough level of authority to approve HDR's ideas for optimization upgrade plans. The first two deliverables will be the Scoping Plan and Evaluation Plan, which will be circulated to members in late October and December, respectively. In early 2015, BACWA will likely hold a kickoff meeting for its members to explain the process, and the team will begin site visits to each facility.
- *Support for Scientific Studies* – BACWA has written a check for $865K to the RMP that will comply with the support for scientific studies required by the watershed permit. The remaining $15K is being used to fund the facilitator of the Steering committee that provides governance for the studies.
- *Nutrient symposium* – Members should RSVP for the Nutrient Symposium. The agenda and list of speakers is now finalized. The Symposium will cover experiences with Nutrient Management Case Studies from around the country.
- *Steering Committee* – A new planning committee will meet between steering committee meetings to provide direction for the steering committee and ensure that action items are carried out. The Planning committee is made up of representatives from BACWA, BayKeeper, SFEI and the Regional Water Board.

Report Out from Executive Board Meeting on 8/15/14

- Phil Trobridge from SFEI gave an update on RMP activities, and a presentation on his experience with nutrient management in New Hampshire.
- The Executive Board approved a contract for RMC to investigate SSO enforcement options to help prevent citizen suits.
- The Executive Board requested that committee schedules leave sufficient time between committee meetings and the Executive Board meeting to provide a Board report for the handout.

Informational Items/Announcements

- *RMP Annual Meeting* – Meeting is October 14. Admission is free for BACWA members.
- *Rescheduling October meeting* – Meeting is rescheduled for October 28, and November meeting is cancelled.
- *Flushable Standards* – NACWA is asking for volunteers to represent POTWs in a technical advisory group to develop flushable standards, in which industry will also participate. Lorien will also forward the request to the Operations group.
- *Electronic Reporting* – Agencies will be required to report via eSMR 2.5 beginning October 1.

Next BACWA Permits Committee Meeting: Tuesday, October 28, 2014, at EBMUD Plant Library

Recycled Water Committee – Report to BACWA Board

Recycled Water Committee Meeting on: 9/3/14
Executive Board Meeting Date: 9/26/14
Committee Chair: Cheryl Muñoz

Committee Request for Board Action: None.

15 attendees (incl. 5 on phone) representing 8 BACWA member agencies.
Detailed notes from previous meetings are posted online.

2014 Prop 84 Drought Relief Regional Application

Round 2 is underway as the Local Project Sponsor (LPS) agreement is in progress. Last month, ABAG signed an agreement with DWR. ABAG provided draft LPS agreements to agencies in late August. Agencies are in negotiations regarding terms.

2014 Water Bond

A new version of the Water Bond passed the legislature (AB1471) and will be included on the November Ballot. Previously, the amount of the bond allocated to recycled water projects was increased to $750 million and designated to include desalination. Compared to previous versions of the Bond, the provision that would have allowed money that is earmarked for recycled water to be used for groundwater replenishment has been removed so that money is restricted to the recycled water program. For more information, see http://ct3k1.capitoltrack.com/Bills/13Bills/asm/ab_1451-1500/ab_1471_bill_20140813_amended_sen_v96.pdf.

Bay Area Recycled Water Truck-fill Facilities Survey

A representative of Caltrans attended the April Recycled Water Committee meeting seeking information on Recycled Water Truck-fill Facilities. At the April meeting the Recycled Water Committee agreed to survey local agencies to see who has truck-fill facilities. BACWA reallocated funds in August for Whitley Burchett (WBA) to conduct a Bay Area Recycled Water Truck-fill Facilities Survey. A list of survey questions was drafted which Cheryl reviewed with Caltrans for their input.

The survey will be useful for Caltrans, but can also be used for water districts and retailers, contractors and developers as recycled water guidance. It can be posted on BACWA site, and then linked to other sites. The survey will cover Region 2 plus the Bay Area Caltrans service area beyond Region 2. The 43 POTWs in BACWA Region should be included, as well as additional water agencies such as Santa Clara Valley Water District.

There was additional discussion that often times recycled water is trucked from one agency and actually used in a neighboring agency's service area, which in the past has required Water Board approval since each agency's water recycling permit only allows for distribution within their service area. Considering the drought, it would be helpful and more efficient for the Water Board to grant approval just for trucked recycled water provided that there are no issues/objections from the local water supplier having jurisdiction. Dave Williams proposed that BACWA send a request to the Water Board to grant blanket approval permitting BACWA agencies to allow the use of their recycled water across jurisdictional boundaries, especially in times of drought. Recycled water agencies would still need to grant individual permits to users so that a recycled water agency would be authorized by the Water Board to grant approval, but the agency would not be compelled to do so. Blair Allen at the Regional Water Board could coordinate this effort. Dave Williams has gotten approval from Dyan Whyte, who has requested BACWA submit a letter requesting blanket approval that she can then approve. Cheryl Munoz is in the process of drafting this letter.

Survey of Recycled Water Use for Drought Relief

CASA and ACWA have shown interest in investigating the history of recycled water throughout state of California and what is currently being done in response to the drought. Recycled Water Committee members expressed interest in participating for the purposes of posterity of recording history of recycled water and the possibility of future funding through CASA. The project is in conceptual stages, and the Committee involvement is being led by Rhodora Biagtan of DSRSD.

Next BACWA Recycled Water Committee Meeting: October 1, 2014 from 10:00 am to 12:00 pm, 2nd Floor Small Training Room at EBMUD Headquarters.

Executive Director's Report to the Board
September 2014

NUTRIENTS:

Completed a variety of tasks and activities associated with BACWA's interests on nutrients and collaborating with the Water Board including:
- Attended the 2nd and 3rd meetings of the Steering Committee Governance Workgroup and served as scribe. Following the meeting prepared detailed meeting minutes and summary of action items. Materials delivered to the Steering Committee Facilitator.
-Coordinated the efforts of the CMG in negotiating the contract for the Optimization/Upgrade Studies. Contract was successfully negotiated and awarded at the Special BACWA Board meeting in September.
-Oversaw the execution of the Optimization/Upgrade Studies contract and issued a Notice to Proceed to begin the work.
-Participated in conference calls with the Carollo and the BACWA team planning the Nutrient Watershed Case Studies Symposium. Also discussed the Symposium with Paul Freedman who will be the MC for the event.
-Continued coordination on the in-kind support committed by BACWA for the EBMUD EPA grant for nutrient research
-Coordinated with the Science Manager on providing a Conceptual Model update at the Pardee Technical Seminar.

BACWA BOARD MEETING:

-Worked with the AED in preparing for the September BACWA Board agenda including reviewing the agenda with the chair.
-Attended the BACWA August Board meeting and worked with the AED and RPM in preparing the minutes and Action Items.
-Prepared for and attended the bi-monthly meeting with the Water Board staff.
-Continuing to track all action items to completion.
-Accompanied the BACWA Chair to a meeting with the chair of the Water Board to discuss issues on sustainability and any role that POTWs could play.

ASC/SFEI:

-Attended the ASC/SFEI quarterly Board meeting. Closed Session held on the negotiations for a new Executive Director.
-Participated in the ASC/SFEI monthly Executive Committee conference call for August

FINANCE:

-Engaged in discussion with the AED and EBMUD regarding improving the reporting of financial data for BACWA.
-Coordinated with the EBMUD internal auditor on the audit of the BACWA JPA. Worked with the BACWA attorney to address questions which arose during the audit regarding compliance with the JPA.

Executive Director's Report to the Board
September 2014

PERMITS COMMITTEE:

-Attended the monthly Permit Committee meetings. Provided update on all BACWA nutrient related activities, and discussed the status of the consultant selection process, the Watershed Case Study Symposium, Statewide bacterial objectives, toxicity issues, the Vector Control permit, and the Statewide Mercury Program

RECYCLED WATER COMMITTEE:

-Attended the monthly Recycled Water Committee meeting. Sending BACWA letter to the Water Board requesting blanket approval for use of trucked recycled water outside of an agency's service area in an effort to streamline administration associated with encouraging used of recycled water during the drought.

COLLABORATION:

-Coordinated with the CASA ED on topics on mutual interest (i.e. upcoming annual retreat, State Nutrient objectives, toxicity and potential litigation, and utility leadership committee).
-Attended the CASA Annual Conference and elected President of CASA.

ADMINISTRATION:

-Engaged in frequent discussions with the new AED to help bring her up to speed as quickly as possible.
-Worked with the AED and RPM to prepare a scope of work for on-going IT and web site services to BACWA following the loss of the Linde Group as BACWA's IT service provider.
-Met with the new vendor to discuss the scope and begin providing IT support and a concept design for the new web site.
-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 new AED to coordinate activities and review duties, schedules, and priorities.
-Held monthly BACWA staff meetings to help ensure coordination on key upcoming activities.
-Attended required annual ethics training in accordance with State law.

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
-Jim Kelly as the Interim Executive Director of SFEI
-other misc. calls and inquiries regarding BACWA activities
-Received a call from Jennifer Krebs regarding ABAG's GHG reduction strategy.

September 9, 2014 BACWA Special Board Meeting
Action Items

Number	*Subject (Lead)*	*Task*	*Deadline*	*Status*
2014.09 16	September 9, 2014 Special Board Meeting	Finalize contract with HDR		Done

August 15, 2014 BACWA Board Meeting
Action Items

Number	*Subject (Lead)*	*Task*	*Deadline*	*Status*
2014.08-07	2014 Budget	Prepare 2014 Budget vs Actual	9/26/14	Pending
2014.08-08	IT/website update	Develop Scope and Enter into a Contract		Done
2014.08-09	JPA Resolution	Prepare table showing JPA Funding breakdown by Agency	9/26/14	Done
2014.08-10	Pardee	Broaden and extend focus of Agenda for Pardee		Pending
2014.08-11	Committee Schedules	Align Committee Schedules to prevent conflicts		Pending
2014.08-12	SWRCB Focus Group for Mercury	Tim Potter to provide Amendment Draft		Pending
2014.08-13	SSO Alternatives	RMC to present two alternatives at September EB Meeting	9/26/14	Pending
2014.08-14	WS Symposium	Investigate & assess potential legislative staff invitations to WS Symposium		Pending
2014.08-15	BACWA Bulletin	Add BACWA Representatives		Done

Action Items Remaining from Previous BACWA Executive Board Meetings

Number	*Subject (Lead)*	*Task*	*Deadline*	*Status*
2014.07-03	Proposed agenda Items for Next Joint BACWA/WB meeting (ED)	Dave will add chlorine monitoring and discussion of Pardee Agenda	August 18, 2014	Pending
2014.07-05	Draft Agenda for Pardee Technical Seminar	Get input from Tom Mumley about his list of items for Pardee. Karin suggested outside fundraising for wastewater initiatives be included as a discussion item.		Sent to Tom, response pending

Number	***Subject (Lead)***	***Task***	***Deadline***	***Status***
2014.03-79	Baywise Website (BAPPG Chair)	Edit baywise.org to indicate that BACWA and BASMAA are sponsors.	7/1/2014	pending
2014.05-102	NACWA Inquiry Regarding Collaboration with Agriculture (ED)	Forward request to Napa and Sonoma agencies and respond to NACWA.		pending
2014.05-105	Annual Report (ED)	Produce scaled-down version.		pending
2014.06-113	Joint meeting with Air District (ED, Air Comm. Chair)	Set up meeting with senior staff at BAAQMD	12/31/2014	pending

FY15: 8 of 16 Action Items completed.
FY14: 124 of 128 Action Items completed.
FY13: 67 of 67 Action Items completed.

Board Calendar thru December 2014

As of Wednesday, September 24, 2014 at 9:29 AM

DATE	ASSIGNMENT	STATUS NOTES
10/21 – 10/23 Pardee Technical Seminar **Items due: 10/15** Connor; Pagano; Horenstein; Ervin; Bailey Williams; Fono; Hull	**Other Business: Discussions** Financial Board/Committee Membership Communications Nutrients Other Regulatory Issues Coordination with Water Board	*No Board Actions Permitted*
11/21/2014 Monthly Board Mtg **Items due: 11/14** Connor; Pagano; Horenstein; Ervin; Bailey Williams; Fono; Hull	**Consent** Previous Board Meeting Minutes (AED) Monthly Treasurer's Report (EBMUD Accounting) Annual Audit Report (EBMUD Accounting) **Reports** Committee Reports (Committee Chairs) Board Reports (Executive Board) ED Report (ED) RPM Report (RPM) Chair/ED Authorizations (AED)	*10m* *40m*
	Other Business: Authorizations	
	Other Business: Discussions ReNUWIt Update (B. Horenstein/ M. Connor) Annual Member Meeting Planning (ED) Provide the Board an update on the EBMUD EPA Grant for Sidestream Treatment in the Fall Regulatory Committee Restructuring	
12/?/2015 Joint Meeting Items due: ? Connor; Pagano; Horenstein; Ervin; Bailey Water Board Staff Williams; Fono	**Other Business: Discussions**	
12/19/2014 Monthly Board Mtg **Items due: 12/12** Connor; Pagano; Horenstein; Ervin; Bailey Williams; Fono; Hull	**Consent** 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)	*5m* *40m*
	Other Business: Authorizations	
	Other Business: Discussions Quarterly Update from CWCCG (S. Deslauriers) Annual Member Meeting Planning (ED)	

DATE	ASSIGNMENT	STATUS NOTES
	FY2016 Budget Planning - Info Share Groups: consider bidding contract; update on participation and regular updates to e-mail list in FY15 (M. Barnes) Optimization/Upgrade Studies Quarterly Update (CMG)	

CURRENTLY UNSCHEDULED AND SIGNIFICANT

- Approval of Annual Report FY12 & FY13
- Defining BACWA Priorities/Revisit Strategic Plan
- BACWA Membership Engagement Opportunities
- Tech Seminar/Workshop: CCCSD Cogen explosion, SFPUC force main leak and repair, and BACWA member pilot plants.
- Chlorine Residual Analyzer Investigation
- Suggestions for Monthly Meeting Guest Speakers/Presenters: ie. Jim McGrath, State Water Board; ?
- CEC's (Kelly Moran)
- Strategy Development for Triennial Review (Permits Committee/Board)
- Optimization/Upgrade Studies Quarterly Report to Board(CMG) Mar, Jun, Sept, Dec 2015-2017
- Optimization/Upgrade Studies Biannual Report to Members (CMG/Consultant) Oct, April
- BAAQMD Biannual Joint Meetings (Feb, Aug 2015)

BOARD COMMITTEES WITH NO MEETINGS CURRENTLY SCHEDULED

-

Regulatory Program Manager's Report to the Board

August 18 2014 – September 22 2014
Prepared for the September 26, 2014 Executive Board Meeting

NUTRIENT WATERSHED PERMIT SUPPORT: Posted HDR scope to BACWA nutrient webpage. Prepared slides for and presented at EPA Grant-Funded Sidestream Nutrient Removal Study: Team Workshop No. 2. The EPA Grant team is interested in exploring ways that their project and the BACWA-funded Optimization and Facilities Upgrade studies can work together. HDR is involved with both projects, so while good opportunities for synergy exist, they will also need to keep separate work that is billed to each entity.

SFEI CONTRACT OVERSIGHT: Reviewed SFEI invoices for June, July, and August. Approximately $483K of $675K has been spent for Fiscal Year 2014. The moored sensor progress update, nutrient modeling work plan, and monitoring program plan were distributed to the Nutrient Technical Workgroup on 9/19 for comment. The links for these documents will also be distributed to BACWA members via the October BACWA Bulletin.

NUTRIENT SYMPOSIUM SUPPORT: Organized RSVPs. Contacted CASA, State Water Board and BayKeeper directly to issue invitations.

RISK REDUCTION: Contacted DPH, Regional Water Board and Aquatic Science Center (ASC) to discuss setting up a Bay Area risk reduction program. BACWA may consider working with other permittees to distribute grants to community organizations through ASC, who organized the last risk reduction effort. See attached email for more information.

BACWA BULLETIN: Drafted and distributed September BACWA Bulletin. Provided draft October Bulletin to AED to be sent out at the beginning of the month.

COMMITTEE SUPPORT: Drafted agenda for Permits Committee meeting as well as Board Reports for August and September. Reviewed Kim West's meeting notes and Board Report for September Recycled Water meeting. Reviewed Kim West's draft Board Report for AIR committee. Finalized AIR Committee Annual Newsletter, which is available on BACWA home page.

CASA REGULATORY WORKGROUP: Attended meeting on 9/11. Gave a description of the nutrient watershed permit, BACWA's role in complying with the optimization/upgrade studies, annual reporting, and support for scientific studies. Invited participants to the 10/6 Nutrient Symposium. A major topic at the meeting was the EPA formal objection letter to the toxicity provisions in two of Los Angeles Community Sanitation Districts' permits. For more information, see the write-up in the Board Packet.

IT UPGRADES: Met with Computer Courage to discuss website upgrades and ongoing IT support.

ANNUAL REPORT: Developed text for BACWA Annual Report Covering Fiscal Years 2012/13 and 2013/14.

REGULATORY ISSUES SUMMARY: Updated draft regulatory issues matrix. Comments and edits should be sent to Patricia McGovern for inclusion in the final draft for the Pardee packet.

MEETINGS ATTENDED: Recycled Water Committee (9/3), BACWA Staff meeting (9/9), Permits Committee (9/9), Meeting with Computer Courage AIR Committee (9/8 and 9/23), AIR Committee (9/17), EPA Grant-Funded Sidestream Nutrient treatment workshop No. 2 (9/22).

SF Bay Nutrient Strategy FY2014 Status (Contract with SFEI)

Updated 9/22/2014

Total Spent of $675,000 **$483,096.91**

Task	**Description**	Upcoming Deliverable	Original Date	Updates
11	Lower South Bay Synthesis	Draft Report	December 2013	Expected in October 2014
4 (FY13)	Suisun Synthesis I	Final Report	December 2013	Delivered March 2014
12	Suisun Synthesis II	Draft Report	April 2014	Expected in November 2014
13	Nutrient Science Plan	Draft Plan	February 2014	Work is ongoing
22	Moored Sensor Program	Progress Update	April 2014	Circulated for comment September 2014
23	Characterizing Phytoplankton Community Composition	Draft Report	April 2014	Manuscripts in preparation
24	Nutrient Monitoring Program Development	Draft Plan	March 2014	Circulated for comment September 2014
3 (FY13)	Conceptual Model of Nutrient Exchange through Golden Gate	Draft Report	July 2013	Delivered February 2014

Sherry Hull

From: Lorien Fono <lfono@pmengineers.com>
Sent: Monday, September 22, 2014 10:30 PM
To: Sherry Hull
Subject: Fwd: BACWA's contribution to risk reduction

Here's the risk reduction email.

-------- Original Message --------
Subject: BACWA's contribution to risk reduction
Date: Thu, 18 Sep 2014 16:10:33 -0700
From: Lorien Fono <lfono@pmengineers.com>
Organization: Patricia McGovern Engineers
To: David Williams <dwilliams@bacwa.org>, Patricia McGovern <mcgovern@pmengineers.com>, Sherry Hull <shull@bacwa.org>, "O'Hara, Janet@Waterboards" <Janet.O'Hara@waterboards.ca.gov>, Jennifer Hunt <jhunt@sfei.org>, Dyan Whyte <dwhyte@waterboards.ca.gov>, "jimk@sfei.org" <jimk@sfei.org>, "jay@sfei.org" <jay@sfei.org>, "mconnor@ebda.org" <mconnor@ebda.org>

Hi, all. I'm copying BACWA, ASC, and Regional Water Board staff on this email so that we're all on the same page.

Over the past month, I've spoken with Jan O'Hara at Region 2, Janis Cooke at Region 5, the folks at ASC, and Alyce at the DPH, about ways that BACWA can fulfill its risk reduction requirement from the Hg/PCB watershed permit. Here's the background and proposal for next steps:

Initially we had been looking at joining on to the Delta MERP effort, which is patterned on the Bay Area risk reduction effort from the last permit term. However, there would be several administrative hurdles to working with them, and they are stalled on hiring a public health educator. They haven't made significant progress in the year or so I've been talking with them.

DPH does not have any staff resources to contribute to our effort, and would require a significant fraction of the available funds to lead a new risk reduction effort in our region. They are very interested, but not able to contribute unless something changes over there.

Region 2 staff are putting together a letter to dischargers outlining what they'd like to see in a risk reduction program. Jan tells me they'd like contributions distributed gradually over the permit term, rather than as a lump sum, the idea being that this would be a sustaining program until we figure out how to get the State to take over these risk reduction programs. Jan is also working with BASMAA to negotiate what kind of risk reduction requirements will be included in the next stormwater permit.

In the meantime, it looks as if WSPA wants to just write a check to some of the community-based organizations (CBOs) that got funding from our last effort and get this requirement over with. While that's tempting, BACWA's role as a JPA made up of public agencies makes it incumbent upon us to have some sort of a process before we begin writing checks.

ASC staff, who managed the last risk reduction effort in the Bay Area, are open to collaborating with us to provide a structure under which we can work with CBOs. Because the budget is pretty small, the amount of effort we'd expect from them would be minimal, but they could provide two important services: convening a steering committee to choose grant recipients and review their reports, and to serve as the "banker" for this effort. This steering committee would meet infrequently to keep down costs and would consist of the contributors (dischargers), Regional Water Board staff, and if possible, someone from the DPH.

Jan is aware that I'll be on leave for the rest of the year, and given the amount of time this has taken, another three months shouldn't make a big difference. If nothing better presents itself, we may have more clarity on BASMAA's role in January and can get rolling on setting up the structures to make this finally happen.

Lorien

--
Lorien Fono, Ph.D., P.E.
BACWA Regulatory Program Manager
Patricia McGovern Engineers
lfono@pmengineers.com
510-684-2993

--
Lorien Fono, Ph.D., P.E.
BACWA Regulatory Program Manager
Patricia McGovern Engineers
lfono@pmengineers.com
510-684-2993

BACWA EXECUTIVE DIRECTOR AUTHORIZATION REQUEST

FILE NO.: 13,395

DATE: September 5, 2014

TITLE: O'RORKE, INC. for POLLUTION PREVENTION (P2) WEEK CAMPAIGN SUPPORT

RECOMMENDED ACTION

Executive Director authorization for an agreement with O'Rorke, Inc. in an amount not to exceed $1,500 to manage and implement an online Facebook campaign focused on the message "Wipes Clog Pipes" in conjunction with National P2 Week (September 15 – 21, 2014).

SUMMARY

Most consumer wipes products (labeled flushable or not) take much more time to disperse in water than toilet paper, which has caused issues for many POTWs in the Bay Area, including damage to pumping station equipment, grinders and other infrastructure, stoppages and even sanitary sewer overflows. For example, in 2011, more than 30% of Central Contra Costa Sanitary District's (CCCSD) overflows were caused by consumer wipes. This is also a safety issue for pump station employees that have suffered needle sticks from "deragging" pumps clogged with wipes.

This contract will provide a regional online campaign encouraging the public not to flush disposal wipes. The campaign will include rerunning of banner ads (generated from last year's P2 Week campaign) through Facebook on accounts operating throughout the San Francisco Bay Area. If a Facebook user clicks on the banner ad, they will be directed to a page on www.Baywise.org, a website sponsored by both BACWA and BASMAA, that contains additional information about why consumers should not flush wipes.

The bulk of the cost of this contract ($1,200) will be used for running the banner ads (Facebook operates on a per-click basis, meaning you only pay a fee when users click on your banner ad) and the balance ($300) will cover O'Rorke's costs for administering the campaign.

This work will be carried out under the supervision of Melody LaBella (CCCSD).

FISCAL IMPACT

This campaign was specifically budgeted in the BACWA-approved 2014/2015 BAPPG Budget, under the line item "P2 Week."

ALTERNATIVES

BACWA could elect not to move forward on this project, but it is not recommended, as retail sales of disposable wipes are on the rise, so this issue is not going away. No other alternatives were considered as the BACWA contracting policies authorize a sole source selection process for contracts under $50,000.

Attachments:
1. Scope of Work
2. Purchase Order

Approved By:	Date:
David R. Williams	September 12, 2014

File 13,396 DATE September 10, 2014

BAY AREA CLEAN WATER AGENCIES

PURCHASE ORDER

TO:	Julia Fishman, Account Supervisor O'Rorke, Inc. 55 Hawthorne Street, #710 San Francisco, CA 94105	julia@ororkeinc.com (415) 543-0124
FROM:	David Williams, Executive Director BACWA PO Box 24055, MS702 Oakland, CA 94623	dwilliams@bacwa.org Phone: (415) 308-5172 FAX: (510) 287-1351

RE: BAPPG Purchase Order for 2014/2015 O'Rorke, Inc. to Conduct a Media Campaign Encouraging Bay Area Residents Not to Flush Consumer Wipes for National Pollution Prevention (P2) Week

This Purchase Order (PO) covers professional consulting services to be performed by O'RORKE, INC. in order to conduct an outreach campaign encouraging the public not to flush wipes. This work is described in the attached Scope of Work and under the direction of Melody LaBella (Central Contra Costa Sanitary District). The total cost of professional services to be performed by O'RORKE, INC. is not to exceed $1,500. This contract will be funded by the BAPPG account for P2 Week.

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

O'RORKE, INC. shall submit invoices to the Assistant Executive Director via e-mail. Invoices shall indicate hours associated with each task. EBMUD will pay O'RORKE, INC. within thirty (30) days of receipt and approval of satisfactory O'RORKE, INC. 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 _____
Michael S. Connor
Chair, BACWA Executive Board

Date September 12, 2014

By _____
O'RORKE, INC.

Date _____

BACWA EIN: 94-3389334

Scope of Work
P2 Week Campaign

O'Rorke, Inc. will conduct a regional online Facebook campaign featuring previously developed banner ads (pictured below), focusing on the message "Wipes Clog Pipes." O'Rorke will monitor the ads and report back campaign statistics to BAPPG's project manager.

O'Rorke services	$300
Facebook advertising budget	$1,200
	Total contract = $1,500

BAY AREA CLEAN WATER AGENCIES

EXECUTIVE BOARD RESOLUTION NO. R-15-01

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

a. a stated portion to the Original Signatory Members in equal shares; and

b. the balance to Associate and Affiliate Members based one or more of several factors consisting of the type of agency, size of plant, metals loadings, and total nitrogen loadings in the ratio that their share is to that of the total Associate and Affiliate Membership; and

WHEREAS, for the sake of clarity, the Executive Board desires by this Resolution to state specifically its adoption of the above Allocation Method in its adoption of Annual Budget commencing with the 2015 fiscal year Annual Budget and continuing each fiscal year thereafter unless and until a different allocation method is adopted by the Executive Board.

NOW, THEREFORE, BE IT RESOLVED that commencing with adoption of the 2015 fiscal year Annual Budget and with each Annual Budget adopted thereafter, the above Allocation Method for Part A and Part B costs is hereby adopted by the Executive Board pursuant to Section 10 of the Joint Powers Agreement unless and until such Allocation Method is changed by resolution of the Executive Board.

CERTIFICATION

The undersigned, as Chair of Bay Area Clean Water Agency, hereby certifies that the foregoing Resolution was duly adopted by the Executive Board at its regular meeting held on August 15, 2014.

_____

Chair

FY15 Member Dues

(GEN = BACWA)
(CBC = Clean Bay Collaborative)

(NSC = Nutrient Surcharge)
(AIR = Air Committee)
(WOT = Water Operator Training)

CUSTOMER NAME	CONTACT INFO	PRIN	AFFIL	BAPPG	CBC FEE	CBC NUT	AIR1	WOT1	Total	mailed	recvd	$ paid	Balance
City of Albany	Ray Chan		1530		750				2280	8/19/2014			
City American Canyon	Stacey Ambrose		1530		750	384			2664	8/26/2014			
City of Antioch	Brandon Chalk		1530		750				2280	8/19/2014	9/5/2014	2280	
City of Berkeley	Adadu Yemane		1530		750				2280	8/19/2014			
City of Benicia	Jeff Gregory		1530		2996	1293			5819	8/19/2014	9/8/2014	5819	
City of Belmont	Bozahena Palatnik		1530		750				2280	8/19/2014			
City of Brentwood	Casey Wichert							3000	3000	8/19/2014			
City of Brisbane Public Works	Jerry Flanagan		1530		750				2280	8/19/2014	9/11/2014	2280	
City of Burlingame (Veolia Water on TR)	William Toci		1530		4954	2660			9144	8/19/2014			
City of Calistoga	Warren Schenstrom		1530		1058				2588	8/19/2014	9/11/2014	2588	
CCCSD (Central Contra Costa Sanitation District)	Roger Bailey	91800			90000	40000	6000	12000	239800	8/19/2014	9/2/2014	239800	
CMSA (Central Marin Sanitation Agency)	Jason Dow		7650		9050	5230		12000	33930	8/19/2014	9/4/2014	33930	
CCSF (City and County of San Francisco)	Tommy Moala	91800			90000	40000	6000		227800	8/19/2014			
Contra Costa Water District	Elia Bamberger								0				
Cupertino Sanitary District	Steve Machida		1530		750				2280	8/19/2014			
City of Daly City	Cynthia Royer								0				
DDSD (Delta Diablo Sanitation District)	Gary Darling		7650		10635	9992	6000	12000	46277	8/19/2014	9/2/2014	46277	
Diablo Water District	Mike Yeraka							3000	3000	8/19/2014	9/2/2014	3000	
DSRSD (Dublin-San Ramon Services District)	Dan Gallagher		7650		750			12000	20400	8/19/2014	9/12/2014	20400	
EBDA (East Bay Dischargers Authority)	Mike Connor	91800			90000	40000			221800	8/19/2014	9/2/2014	221800	
EBMUD (East Bay Municipal Utilities District)	Ben Horenstein				90000	40000	6000		136000	6/1/2014	6/16/2014	136000	
EBMUD (East Bay Municipal Utilities District)	Ben Horenstein	91800							91800	8/19/2014	9/5/2014	91800	
EBMUD (East Bay Municipal Utilities District)	James Smith/Dave Frietas							6000	6000	5/16/2014	5/27/2014	6000	
City of Fairfield	Scott Leland		1530		750				2280	8/19/2014	9/5/2014	2280	
FSSD (Fairfield Suisun Sewer District)	Greg Baatrup		7650		12254	7685	6000	12000	45589	8/19/2014	9/3/2014	45589	
Ironhouse Sanitary District	Tom Williams							4000	4000	8/19/2014	9/2/2014	4000	
Las Gallinas Valley Sanitary District (LGVSD)	Mark Williams		1530		3244	1512	1320	3000	10606	8/19/2014	8/29/2014	10606	
City of Livermore	Darren Greenwood		7650		750				8400	8/19/2014	9/3/2014	8400	
City of Martinez	Chris Kania							1500	1500	8/19/2014			
City of Millbrae	Joseph Magner		1530		2464	1451			5445	8/19/2014	9/2/2014	5445	
City of Milpitas	Accounts Payable		1530		750				2280	8/19/2014			
City of Mountain View	Mike Mulhearn		1530		750				2280	8/19/2014			
Mt. View Sanitary District (MVSD)	Michael Roe		1530		2110	777		3000	7417	8/19/2014			
Napa Sanitation District	Tim Healy		7650		5845	2949			16444	8/19/2014			
North San Mateo Sanitation District (NSMSD) (Daly City, City o f on TR)	Cynthia Royer		1530		750				2280	8/19/2014			
Novato Sanitary District	Sandeep Karkal		1530		3518	1463			6511	8/19/2014	9/10/2014	6511	

Note: WOT and AIR estimates based on FY14 dues; awaiting confirmation from Program Managers

FY15 Member Dues

(GEN = BACWA)
(CBC = Clean Bay Collaborative)

(NSC = Nutrient Surcharge)
(AIR = Air Committee)
(WOT = Water Operator Training)

CUSTOMER NAME	CONTACT INFO	PRIN	AFFIL	BAPPG	CBC FEE	CBC NUT	AIR1	WOT1	Total	mailed	recvd	$ paid	Balance
Oro Loma Sanitary District	Manuel Talledo-Garcia							8000	8000	8/19/2014	9/4/2014	8000	
City of Palo Alto	Karin North		7650		36848	13560	6000		64058	8/19/2014	9/11/2014	64058	
Pacifica	Dave Gromm		1530		750				2280	8/19/2014			
City of Petaluma	Dan St. John		1530		4045	411			5986	8/19/2014			
City of Pittsburg	Walter Pease								0				
Pinole/ Hercules	Rich Ariza		1530		4327	2013			7870	8/19/2014			
City of Piedmont	Chester Nakahara		1530		750				2280	8/19/2014	8/29/2014	2280	
City of Pleasanton	Daniel Smith		1530		750				2280	8/19/2014	9/8/2014	2280	
City of Redwood City	Marilyn W. Harang		1530		750				2280	8/19/2014			
City of Richmond WPCP (Veolia Water on TR)	Aaron Winer		1530		750			3000	5280	8/19/2014			
Rodeo	Steven Beall		1530		1233	240		3000	6003	8/19/2014	9/8/2014	6003	
City of San Bruno	Dennis Bosch		1530		750				2280	8/19/2014	9/10/2014	2280	
City of San Carlos	Jay Walter		1530		750				2280	8/19/2014			
City of Santa Rosa	Martin St George			1150			6000		7150	8/19/2014	9/3/2014	7150	
CSJ (City of San Jose)	Jim Ervin	91800			90000	40000	6000		227800	8/19/2014	9/8/2014	227800	
Santa Clara County Sanitation District No. 2-3	Richard Tanaka		1530		750				2280	8/19/2014	9/8/2014	2280	
Sacramento Regional County Sanitation District	Linda Stevens			1150					1150	8/19/2014			
Sanitary District of Marin County No. 1 (Ross)	Greg Norby		1530		750				2280	8/19/2014	9/2/2014	2280	
Sanitary District of Marin No. 2 (Corte Madera)	Barry Hogue		1530		750				2280	8/19/2014	9/5/2014	2280	
Sanitary District of Marin No. 5 (Tiburon)	Tony Rubio		1530		1536	367			3433	8/19/2014			
San Francisco International Airport (SFIA) (City and Co of SF on TR)	Josie Copper		1530		1508	1367			4405	8/19/2014			
San Mateo WWTP	Ryan Smith		7650		14317	8695	6000		36662	8/19/2014			
Sausalito/Marin City Sanitary District (S/MCSD)	Craig Justice		1530		3930	914		3000	9374	8/19/2014	9/8/2014	9374	
San Mateo County, Department of Public Works	Ann Stillman		1530		750				2280	8/19/2014			
Sewerage Agency of Southern Marin (SASM) (Mill Valley on TR)	Mark Grushayev		1530		7149	1394			10073	8/19/2014			
Sewer Authority Mid-Coastside (SAM)	Steve Leonard		1530		750				2280	8/19/2014			
Silicon Valley Clean Water (formerly South Bayside System Authority)	Daniel P. Child		7650		14445	12272	6000		40367	8/19/2014			
Sonoma County Water Agency (SCWA)	Pam Jeane		1530		2042	688			4260	8/19/2014			
South San Francisco	Brian Schumacker		7650		12418	6749			26817	8/19/2014	8/27/2014	26817	
City of St. Helena	John Ferons		1530		788				2318	8/19/2014			
Stege Sanitary District (SSD)	Rex Delizo		1530		750				2280	8/19/2014			
City of Sunnyvale	Melody Tovar		7650		9685	6290	6000		29625	8/19/2014			
Tamalpais Community Services District (TCSD)	Jon Elam		1530		750				2280	8/19/2014	8/28/2014	2280	
Treasure Island	Patricia McFadden		1530		750	75			2355	8/19/2014			
Union Sanitary District	David Livingston						6000	12000	18000	8/19/2014	9/12/2014	18000	
City of Vacaville - EWWTP	Royce Cunningham			1150					1150	8/19/2014			

Note: WOT and AIR estimates based on FY14 dues; awaiting confirmation from Program Managers

FY15 Member Dues

(GEN = BACWA)
(CBC = Clean Bay Collaborative)

(NSC = Nutrient Surcharge)
(AIR = Air Committee)
(WOT = Water Operator Training)

CUSTOMER NAME	CONTACT INFO	PRIN	AFFIL	BAPPG	CBC FEE	CBC NUT	AIR1	WOT1	Total	**mailed**	**recvd**	$ paid	Balance
VS&FD (Vallejo Sanitation and Flood Control District)	Ron Matheson		**7650**		12886	**4897**			25433	8/19/2014	9/2/2014	25433	
West Bay Sanitary District (WBSD)	Phil Scott		**1530**		750				2280	8/19/2014	9/8/2014	2280	
WCA (West County Agency)	E.J. Shalaby		**7650**		15468	**4926**			28044	8/19/2014	9/8/2014	28044	
West County Wastewater District	E.J. Shalaby						4800	8000	12800	8/15/2014	9/8/2014	12800	
WSPA	Kevin Buchan								0				
West Valley Sanitation District (WVSD)	John Newby		**1530**		750				2280	8/19/2014	9/2/2014	2280	
City of Windsor	need to determine new contact?								0				
Yountville	Don Moore		**1530**		997				2527	8/19/2014	9/5/2014	2527	
Zone 7 Water Agency (County of Alameda)	Jill Duerig							3000	3000	8/19/2014			
		$459,000	$168,300	$3,450	$674,250	$300,254	$78,120		$1,806,874			$1,351,331	$455,543

Note: WOT and AIR estimates based on FY14 dues; awaiting confirmation from Program Managers

Sherry Hull

From: Lenny Rather <lenny@oroloma.org>
Sent: Monday, September 22, 2014 4:36 PM
To: Dave Williams
Cc: Sherry Hull; moakley@rmcwater.com; Dan Stevenson (dstevenson@sunnyvale.ca.gov); sbui@rmcwater.com; Mike Connor
Subject: BACWA Collection Systems Committee Assistance

Dave and Sherry,

As you know, Monica Oakley has been assisting the BACWA Collection Systems Committee through RMC Water and Environment. It turns out that Monica will be taking a sabbatical from a few months up to a year, and has proposed that Steve Bui of RMC fill in for her. We are supportive of this change on a month by month basis and want to make you aware of the development. The past, present and future Chairs of the Collection System Committee will be meeting next month to discuss the committee's future. On behalf of the committee, I would ask that any long lasting agreements or decisions be held until after this meeting.

Please let me know if you have any questions. Thank you.

Lenny Rather
Vice-Chair, BACWA Collection Systems Committee
Oro Loma Sanitary District
Field Supervisor
2655 Grant Avenue, San Lorenzo CA 94580
510-276-4700 (office) 510-816-6977 (cell)
lrather@oroloma.org

BACWA

San Francisco Bay Nutrients Symposium Series

Symposium #2

"Watershed Management Case Studies "

October 6, 2014

8:00 am to 4:00 pm

Elihu M. Harris State Office Building Auditorium

1515 Clay Street, Oakland, CA. 94612

Case Study Watershed Presentations:

1. Chesapeake Bay
2. Long Island Sound
3. Tampa Bay
4. Neuse River/Pamlico Sound
5. Saginaw Bay & the Truckee River Watershed

Continental Breakfast (30 min – 8:00 am to 8:30 am)

8:30 am – Welcome and Opening Remarks (5 min – Dave Williams, P.E., BACWA Executive Director).

Symposium Overview and "The Watershed Perspective" (25 min – Moderator Paul Freedman, PE, BCEE, F ASCE, F WEF, LimnoTech, Inc.).

9:00 am: Case Study 1 - Chesapeake Bay Watershed

1. The Chesapeake Bay Story (30 min – Rich Batiuk, P.E., US EPA).
2. Hampton Roads Sanitation District and the Chesapeake Bay Challenge (30 min. – Dr. Charles Bott, P.E., Hampton Roads Sanitation District).

10:00 am <Morning Networking Break> *- 30 min*

10:30 am: Case Study 2 – Long Island Sound Watershed

3. Past, present, and future of the Long Island Watershed Management Program (30 min – Paul Stacey, Great Bay National Estuarine Research Reserve).
4. Meeting the Long Island Watershed Challenge (30 min - Jeanette Brown, P.E., BCEE, F.ASCE, D.WRE; University of Connecticut)

11:30 am: Case Study 3 – Tampa Bay Watershed

5. Tampa Bay Watershed Program (30 min. – Ed Sherwood, Tampa Bay Estuary Program).
6. The POTW Perspective on the Tampa Bay Watershed Program (30 min. – George Cassady, P.E., Hillsborough County, FL).

12:30 pm < LUNCH> *– 60 min*

1:30 pm: Case Study 4 – Neuse River Watershed

7. Overview of the Neuse River Watershed Program (30 min. - Dr. Kenneth Reckhow, P.E., Duke University).

2:00 pm: Case Study 5 – Saginaw Bay & the Truckee River Watershed

8. Saginaw Bay Watershed, and the Truckee River Watershed Programs (40 min – Dr. David Dilks, P.E., LimnoTech).

2:40 pm <Afternoon Networking Break> *- 20 min*

3:00 pm – PANEL DISCUSSION – "The Watershed Approach: Common Challenges, Approaches, and Lessons Learned" (3:00 pm to 3:50 pm)

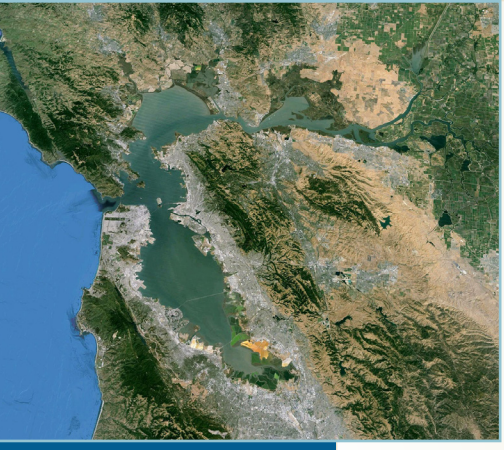
The panel discussion will be organized around the major themes and issues that are common to the various case studies, and how these themes are (or are not) applicable to the San Francisco Bay nutrient initiative. The panel discussion will be interactive with opportunity for the audience to ask questions and/or provide applicable comments.

Panel Moderator: Paul Freedman

Panel Members:

- Chesapeake – Rich Batiuk, Dr. Charles Bott
- Long Island – Paul Stacey, Jeanette Brown
- Tampa Bay – Ed Sherwood, George Cassady
- Neuse River – Dr. Kenneth Reckhow
- Saginaw Bay & Truckee River – Dr. David Dilks

Closing Comments (10 min – Dave Williams)



BACWA BAY AREA CLEAN WATER AGENCIES

Nutrient Watershed Case Studies Symposium

OCTOBER 6, 2014 | 8:00 a.m. to 4:00 p.m.

Save the Date

Who is BACWA?

BACWA is a local government agency created by a joint-powers agreement in 1984. Our membership includes local clean water agencies that provide sanitary sewer services to the more than seven million people living in the nine county San Francisco (SF) Bay Area. BACWA was founded, and continues, to assist agencies in carrying out mutually beneficial projects, and to facilitate the development of scientific, economic and other information about the San Francisco Bay environment and the agencies that work to protect it and public health.

Why is this Symposium Important?

Potential nutrient impacts to San Francisco Bay (Bay) are becoming of increasing concern. The Regional Water Board has issued a Nutrient Watershed Permit (R2-2014-0014), which took effect July 1, 2014. This is the first phase of what is anticipated to be a multi-phased permit.

This initial Order sets forth a regional framework to facilitate collaboration on studies that will inform future management decisions and regulatory strategies. In the 2019 permit reissuance, the Regional Water Board anticipates considering establishment of performance-based effluent limits for nutrients and may require implementation of treatment optimization. The 2019 permit reissuance will also continue efforts to evaluate control measure scenarios as informed by load response modeling.

In the 2024 and 2029 permit reissuances, the Regional Water Board anticipates using the information garnered from studies conducted under earlier orders to require implementation of additional management actions, as needed.

Who Should Attend?

This Symposium is applicable to all BACWA member agencies, regulatory and resource agencies (e.g. RWQCB and EPA staff), environmental consulting firms, university and research organizations, and environmental non-governmental organizations (NGOs).

Please RSVP to Lorien Fono, lfono@pmengineers.com no later than 5 pm Monday, September 15, 2014.

Symposium Overview and Program

While local efforts are beginning to significantly advance the understanding of nutrients and the Bay, there have been a number of significant case studies related to nutrient impacts nationwide with a relatively long history.

The symposium will highlight nutrient issues in other estuaries and water bodies across the nation, and examine where they have been successful, and where things could have been done differently. The speakers represent a wide array of stakeholders presenting a balanced view of the efforts undertaken for those nutrient case studies facing similar issues as locally here in San Francisco.

Symposium participants include nationally recognized speakers from the Chesapeake Bay, Long Island Sound, and Tampa Bay watersheds, among others.

The format includes presentations and open panel discussions allowing interactive participation.

When, Where, Cost

When: The Symposium will be held Monday October 6, 2014, from 8 a.m. to 4 p.m.

Where: The Auditorium in the Elihu M. Harris State Office Building at 1515 Clay Street, Oakland, CA. 94612, (where the offices of the San Francisco Regional Water Quality Control Board are located). Public parking is available in the parking garage directly across Clay Street from the building.

BART Directions: If you are taking BART, get off at the 12th Street-City Center station and walk through the mall of shops until you hit Clay Street. Turn right at the Federal Building and cross the street. The State Building will be right in front of you.

Cost: The cost for the Symposium is $50 per person. Continental breakfast will be provided from 8 a.m. to 8:30 a.m. A box lunch will be provided.

BACWA
San Francisco Bay Nutrients Symposium Series
Symposium #2
"Watershed Nutrient Management Case Studies"
Speakers
FINAL

September 10, 2014

1. Dr. Paul Freedman, PE, BCEE, F ASCE, F WEF (**Symposium Moderator/Overview Presentation)**
    a. President and CEO, LimnoTech
    b. (734) 332-1200 work
    c. (734) 646-0521 cell
    d. pfreedman@limno.com

2. Dr. Kenneth Reckhow, PE (Topic: **Neuse River Basin (Pamlico Sound) Watershed Model/TMDL**)
    a. Duke University
    b. (919) 423-0096
    c. Reckhow@duke.edu

3. Dr. David Dilks, PE (Topic: **Saginaw Bay & the Truckee River**)
    a. Chief WQ & Watershed Modeler, LimnoTech
    b. (919) 423-0096
    c. ddilks@limno.com

4. Dr. Charles Bott, P.E. (**Chesapeake Bay**: POTW Perspective)
    a. Hampton Roads Sanitation District, Director of Research
    b. (757) 460-4228
    c. cbott@hrsd.com

5. Rich Batiuk, PE (Topic: **Chesapeake Bay**: Regulator Perspective)
    a. US EPA, Associate Director for Science, Analysis and Implementation
    b. (410) 267-5731
    c. batiuk.richard@epa.gov

6. Paul Stacey (Topic: **The Long Island Watershed Management Approach**).
    a. New Hampshire Fish & Wildlife Dept. (Formerly Long Island Sound Office, Long Island Sound Researcher)
    b. (603) 294-0146
    c. paul.stacey@wildlife.nh.gov

7. Jeanette Brown, P.E., BCEE, F.ASCE, D.WRE (Topic: **The Long Island Watershed:** POTW perspective).
    a. University of Connecticut (formerly
    b. (203) 309-8768
    c. jeanette.brown@uconn.edu

8. Ed Sherwood, (Topic: **Tampa Bay** Nutrient Management Consortium).
    a. TBEP's Senior Scientist, and lead coordinator for the Tampa Bay Nitrogen Management Consortium
    b. (727)-893-2765 office
    c. esherwood@tbep.org

9. George Cassady, P.E.
    a. Utility Operations Director, Public Utilities Department, Hillsborough County
    b. (813) 209-3009 work
    c. (727) 224-6743 cell
    d. cassadyg@hillsboroughcounty.org

BACWA
San Francisco Bay Nutrients Symposium Series
Symposium #2
"Watershed Nutrient Management Case Studies"
October 6, 2014

1515 Clay St., Oakland, CA
Auditorium
8 am to 4 pm

LOGISTICS

1. RSVP'S TO DATE
    a. As of 9/23/14 we have 96 RSVP's
        i. 77 paying @ $50/each
2. SIGN-IN & PAYMENT AT THE DOOR
    a. BACWA AED will manage the RSVP/Check-In sheet at the door
    b. Payment will be accepted by check or cash
    c. Directions to an ATM will be provided to those who need cash
    d. Current RSVP's should provide approximately $3,850 in offsetting income
3. FOOD
    a. CONTINENTAL BREAKFAST: Will be provided by BACWA
        i. Caterer secured: awaiting final numbers
        ii. Cost approximately $6/pp (includes tax & delivery)
    b. BOX LUNCH: Will be provided by BACWA
        i. Caterer secured: awaiting final numbers
        ii. Cost approximately $10/pp (includes tax & delivery)
4. SPEAKERS
    a. Dr. Paul Freedman has agreed to moderate the Symposium
    b. Eight speakers have agreed to present (see list and Agenda below)
    c. BACWA is providing a travel allowance to six of the speakers for a total of $13,600

Exhibit A

Scope of Work

September 4, 2014

Task 1 – Project Management

Task 1.1 - Project Management

Consultant shall control the Project in terms of staffing, budget, schedule and scope, and promote communication within the project team including the participating agencies, the Contract Management Group (CMG), and the BACWA Executive Director. Consultant shall provide the following services under this task:

- Kickoff meeting (one)
- Monthly meetings with the BACWA CMG (up to 39, 1 hour conference calls). It is assumed that after the Bay Area POTW Nutrient Optimization and Upgrade Evaluation Plan is completed, monthly meetings will be reduced as needed to review progress and results for Task 7.
- Quarterly progress meetings at the BACWA Executive Board Meetings (up to 12 meetings)
- Twice-yearly meetings to present findings to the entire BACWA membership and regulators (up to 7 meetings)
- Scope, budget and schedule management
- Management and coordination of Consultant staff
- Monthly invoicing and progress reports by task and describing percent complete

Unless noted otherwise in the tasks that follow, all deliverables shall be submitted electronically, in Adobe PDF format.

Task 1.2 – QA/QC Program

Consultant shall develop and implement a quality assurance and quality control (QA/QC) program during the course of executing this scope of work.

Task 2: Scoping and Evaluation Plans

The initial steps in performing the special studies in Tasks 4 and 5 require a series of subtasks to scope the effort, develop an evaluation plan, and submit these documents to BACWA and the Regional Water Board for approval.

Task 2.1 - Scoping Plan

The Scoping Plan will identify the work necessary to complete the two special studies: i) optimize facilities for nutrient reduction (including the implementation of sidestream treatment) and ii) determine nutrient reductions possible through treatment plant upgrades. The special studies will look at three types of nutrient removal: ammonia removal, nitrogen removal and phosphorus removal. Because the science has not yet indicated the type or level of nutrient removal that might be required to protect the San Francisco Bay, Consultant will develop nutrient removal objectives as part of the Scoping Plan. Consultant will propose a strategy for setting these objectives to meet either concentration- or load-based nutrient reduction goals. Objectives will include different levels of ammonia removal, nitrogen removal and phosphorus removal, or combinations thereof, as well as how the removal rates may vary seasonally.

It is anticipated that two levels of optimization and two levels of upgrades will be considered, as follows:

- Level 1: General optimization / sidestream nutrient reduction
- Level 2: Seasonal performance
- Level 3: Upgrades to achieve less stringent nutrient removal limits (to be defined)
- Level 4: Upgrades to achieve more stringent nutrient removal limits (to be defined)

The nutrient removal limits for levels 3 and 4 will be determined in consultation with the CMG and Water Board.

It is expected that optimization recommendations will be based on existing flows and loads, whereas upgrade recommendations will be based on plant design flows and loads.

Task 2.2 - Evaluation Plan

An Evaluation Plan is required as part of the Watershed Permit that includes a schedule describing how the work will be conducted to evaluate the potential nutrient discharge reduction by treatment optimization (Study 1) or by treatment upgrades (Study 2). The Evaluation Plan shall include guidance to participating agencies for additional sampling (Consultant will not perform sampling or analysis), as necessary, to support the proposed optimization study. Consultant review a small sample of the data available from the California Integrated Water Quality System (CIWQS) to determine if additional sampling is needed.

In addition, the Evaluation Plan shall define the treatment works categories that will be evaluated to support the potential upgrades and alternative discharge scenarios. The Evaluation Plan will also set up a standard approach/basis for conducting planning level cost estimates.

Task 2 Responsibilities

BACWA Agencies Responsibilities

- Review draft plans
- Participate in meetings and provide feedback
- Coordinate Water Board participation, submit documents

HDR Team Deliverables

- Prepare draft and final Scoping and Evaluation Plans
- Participate in up to two meetings (total) with the CMG to discuss and review plans
- Participate in up to two meetings with the Water Board to discuss and review plans

Task 3 - Data Collection and Synthesis

This Task includes data collection and review, as well as synthesis of existing data, including development of descriptions of existing facilities.

Task 3.1: Data Collection and Review

The Consultant will work through the BACWA Executive Director, who will act as the point contact person with participating agencies, to gather information necessary to complete the study.

Prior to contract execution, BACWA will work with participating member agencies to determine a single responsible point of contact for each plant, collect basic facility information, and obtain copies of related planning documentation such as master plans. BACWA will provide the influent and effluent nutrient data of participating agencies collected from the Water Code 13267 Letter issued by Regional Water Board Executive Officer (dated March 2, 2012) and compiled by San Francisco Estuarine Institute (SFEI).

After contract execution, Consultant will work with the CMG to develop a data collection template. The data collection template will be accessible online. The requested material will include both data and facility information and shall build upon the influent and effluent data already collected and compiled. The requested material may also include information about the existing facilities, future growth and development, and other site specific questions (e.g., space constraints, excess tankage, etc.) necessary to conduct the studies. Where there are data gaps, the Consultant will use assumptions based on the best available industry data. Additional data may be requested, as required, to complete the studies.

Consultant will facilitate a kickoff meeting with participating agencies, following the January 2015 Annual Meeting, to present the final data collection template, including how to use the template, the type and reasoning for requested information, and to answer questions regarding the data request. In addition, next steps will be described including the

project schedule and expectations for the site visits described in Task 3.1a. (This meeting is budgeted as one of the Annual Meetings in Task 1.)

Consultant will also facilitate one follow-up conference call (web meeting) with participating agencies regarding the data collection template.

Task 3.1.a: Site Visits

Consultant will send a two-person, tactical team to visit participating plants (up to 37 plants). During the site visit, the two-person teams will:

- Validate and confirm the facility mode of operation,
- Produce a list of potential optimization strategies: flow routing related, chemical dosing strategy, aeration strategy, etc.
- Identify/confirm site constraints,
- Identify unused tanks and any other available assets for use in optimization and/or upgrades,
- Discuss any questionable data or gaps from the data collection template, and
- Develop / confirm concepts regarding upgrade concepts.

Consultant will prepare a site visit summary to highlight key information collected during each site visit. The site visit summary will be provided to the respective responsible point of contact for validation. The responsible agency point of contact shall provide confirmation of the site visit report and submit adjustments or changes within five (5) working days.

Task 3.b2 – Summary of Existing Facilities

Consultant will use the information collected in Task 3.1 and 3.1.a to develop descriptions of each treatment plant, treatment plant unit processes, and service area. The descriptions shall include the following:

- Service area description – defines the service area by number of service connections, area covered by the agency, etc.
- Current permit discharge requirements for BOD, TSS, and nutrients.
- Summary of current and future flows and loads, based on available data.
- Description of each major unit process, including information such as number of unit processes, size, operational loadings at design, etc.
- Process flow diagram
- Current design capacity
- Plant footprint and summary of any space constraints
- Factors which may increase or decrease influent/effluent loads through 2040.
- Document options for optimization, ability to implement sidestream treatment, and upgrade options.

The Consultant will use the nutrient discharge information collected from the 13267 Letter to establish a baseline for existing levels of nutrient loadings that may be used to account for changes in loadings that result from optimization and upgrade efforts at treatment facilities.

Task 3.3 – Evaluate the Impact on Nutrient Loads in Response to Other Regulations or Requirements

Consultant shall identify any regulatory-driven changes to plant performance that are expected to impact effluent nutrient levels. Background about these other regulatory drivers will be provided by agencies in the data collection template. Consultant shall provide high-level estimates of how nutrient loads will increase or decrease due to process upgrades made in response to other regulations or requirements. The nutrient load increases or decreases will be summarized by plant category.

Task 3 Responsibilities

BACWA Agencies Responsibilities

- BACWA will coordinate with participating agencies to gather information necessary to complete the study, including existing master plans and studies, as well as the completed data collection templates.

- BACWA will coordinate with participating agencies to identify one, responsible point of contact for each participating agency.
- Participating agencies will fill out the electronic data collection template and submit all requested data electronically, within 60 calendar days.
- Operator(s) will participate in the site visit with the Operations and Process Team
- Responsible point of contact will review and confirm the site visit summary within five working days
- Participating agencies respond to follow-up inquiries, as needed

HDR Team Deliverables

- Draft and final electronic data collection template
- One kickoff meeting with participating agencies to review the data collection template
- One conference call / web-meeting with participating agencies to review the data collection template
- List of questionable data and gaps noted
- 2-person site visits for up to 37 plants
- Site visit summaries for each participating agency for validation of information
- Summary of existing facilities (based on the data collection results) which will be included in the draft report in Task 8
- List of which potential regulatory drivers or plant updates which might impact net nutrient discharge loads

Task 4 – Special Study No. 1 - Evaluation of Potential Nutrient Discharge Reduction by Treatment Optimization and Sidestream Treatment

The Consultant shall evaluate options and costs for nutrient discharge reduction by optimization of current treatment works, including the addition of sidestream treatment. For each participating agency, the following subtasks will be completed.

Task 4.1 – Describe Existing Optimization, Minor Upgrades, and Sidestream Treatment

Based on the information collected and reviewed in Task 3, Consultant shall summarize the past work already conducted for each plant to optimize their treatment works, including minor upgrades and sidestream treatment additions that may have achieved nutrient reductions. This will include modifications that have been completed and are reported in the data collection template. In addition, modifications that are planned for implementation within the next five (5) years as part of an existing, adopted CIP, and as reported in the data collection template, will also be included.

Task 4.2 – Evaluate Site-Specific Strategies for Process Optimization

Prior to the site visits in Task 3.1a, consultant will coordinate with the CMG to confirm what constitutes plant optimization (e.g., additional chemical dosing, minor equipment upgrades, a limit on cost per mgd of capacity, etc.) such that the focus of the optimization recommendations is appropriate.

The Consultant will use the data and information obtained under Task 3 to identify strategies to reduce nutrient discharge levels for ammonia, total nitrogen, and phosphorus removal. Strategies could consider modest changes to the existing process, typically modifications that may require some equipment replacement, but no additional basin volume.

Consultant shall identify a list of up to five strategies, from the site visit, that could be employed to optimize treatment works. For each participating agency, the list will be reviewed and likely strategies for success will be identified. Some typical options might include, but are not limited to: i) split flow treatment, ii) return sidestream flow control, iii) additional chemicals, etc.

Task 4.3 – Evaluate Side-Stream Treatment Opportunities

Based on the information collected and reviewed in Task 3, the Consultant will evaluate the feasibility of implementing sidestream treatment into the existing treatment plant for the participating agencies. It is anticipated that the load removal is about 85 percent for either nitrogen or phosphorus.

For sidestream nitrogen treatment, the Consultant shall only consider nitrogen removal. For sidestream phosphorus treatment, the Consultant shall consider both phosphorus removal and phosphorus recovery.

Consultant shall summarize the expected reduction in nutrient concentration as a result of sidestream treatment.

Task 4.4 – Evaluate Beneficial and Adverse Ancillary Impacts

The Consultant shall identify, and where possible, quantify, beneficial and adverse ancillary impacts associated with each optimization strategy. These impacts shall include items such as nutrient effluent concentrations, energy usage, greenhouse gas emissions, space requirements, plant capacity, sludge production and quality, and others. Optimization options that re-purpose available capacity in existing facilities at current loadings will be noted as having an adverse impact in terms of reduced capacity. . Impacts will be assessed semi-quantitatively; particular attention will be paid to impacts on plant capacity.

Task 4.5 – Develop Capital and Operating Costs

For each optimization strategy identified in Subtask 4.2, the Consultant shall prepare planning level costs for any facility modifications. In addition to capital cost estimates, the Consultant shall also provide estimated annual costs (or savings) for energy, chemicals, and labor associated with one optimization strategy. Consultant shall develop appropriate unit costs for energy, chemicals, and labor. Where appropriate, associated operating costs will also be developed for the beneficial and adverse ancillary impacts identified in Task 4.4.

Task 4 Responsibilities

BACWA Agencies Responsibilities

- BACWA to provide support in managing timeliness of responses, scheduling, etc.
- Participating agencies discuss plant optimization opportunities during the site visit (in Task 3)
- Participating agencies validate the most attractive optimization strategy for cost estimating.
- Participating agencies review and comment on Draft Report section

HDR Team Deliverables

- Prepare Draft Report section(s) on plant optimization (to be incorporated in Task 8). The report section(s) will include the following elements:
    - Descriptions of prior and on-going optimization and sidestream treatment efforts
    - List potential plant optimization ideas. For the most attractive concept, prepare:
        - Summary of adverse and ancillary impacts (e.g., greenhouse gas impacts)
        - Develop Capital and O&M cost estimates (energy, chemicals, and labor) and present both annualized costs and net present value costs
        - Estimate nutrient reduction and unit costs (e.g., $/lb nutrient; lb GHG/lb nutrient)
    - Identify attractive participating plants for sidestream treatment. For each plant, list the following:
        - Potential to remove ammonia and phosphorus
            - Reduction in ammonia and phosphorus
            - Unit cost for removing ammonia and phosphorus
        - Potential to recover phosphorus
            - Reduction in phosphorus recovered
            - Unit cost for recovering phosphorus (net cost taking credit for product sales)
        - For non-attractive plants, describe why sidestream treatment is not attractive
    - Coordinate sidestream findings from this effort and the EBMUD EPA Grant Project

Task 5 – Special Study No. 2 - Evaluation of Potential Nutrient Discharge Reduction Treatment Upgrades

The purpose of this task is to evaluate options, constraints, and costs for treatment upgrades to meet the nutrient discharge objectives identified under Task 2.1.

Task 5.1 – Describe Existing Technology Upgrades and Pilot Studies

Based on the information collected and reviewed in Task 3, the Consultant shall summarize treatment plant upgrades already implemented by each participating agency to upgrade their treatment works for nutrient reductions, including minor and major upgrades, or pilot studies. In addition, the Consultant shall summarize the level of nutrient removal the upgrade or pilot study is achieving for total nitrogen and phosphorus (i.e., by comparing influent and effluent loads). Summary shall be based on agency-provided data.

Task 5.2 – Identify Site-Specific Constraints

Based on the information collected and reviewed in Task 3, the Consultant shall identify any site-specific constraints or other circumstances that may limit the feasibility of a lower cost treatment upgrade for each participating agency. For example, some participating agencies have footprint constraints which may eliminate a particular treatment upgrade as an option for their facility.

Task 5.3 – Identify Potential Upgrade Technologies

Consultant shall develop a set of standard plant-type categories and group each participating POTW into a category. Categories may include for example, high purity oxygen plants, conventional activated sludge plants, plants without anaerobic digestion, etc. For each treatment plant category, the Consultant shall develop a list of potentially viable treatment upgrade technologies that meet the two treatment objectives identified in Task 2.1. Consultant shall also develop high level evaluation criteria. The criteria will focus on, but not be limited to, nutrient removal requirements coupled with constraints identified in Subtask 5.2. The treatment upgrades that best meet the evaluation criteria for each category, shall be carried forward for planning level cost estimating.

Task 5.4 – Evaluate Beneficial and Adverse Ancillary Impacts

The Consultant shall identify, and where possible, quantify, beneficial and adverse ancillary impacts associated with each treatment plant upgrade carried forward for planning level cost estimating. These impacts shall include, if appropriate, nutrient effluent concentrations and loads, energy usage, greenhouse gas emissions, plant capacity, sludge and biosolids production and disposal, reduction of other pollutants (e.g., pharmaceuticals), and others.

Task 5.5 – Develop Capital and Operating Costs

For each upgrade identified in Subtask 5.3, the Consultant shall prepare planning level costs.

In addition to capital cost estimates, the Consultant shall also provide estimated annual costs (or savings) for energy, chemicals, and labor. Consultant shall develop appropriate unit costs for energy, chemicals, and labor.

Task 5.6 –Evaluate Impacts of Sea Level Rise

Consultant shall identify participating agencies that are vulnerable to the impacts of sea level rise. Analysis shall be based on publically available data from the United States Army Corps of Engineers (USACE), the Federal Emergency Management Agency (FEMA), and publically available topography data. Participating agencies shall provide key plant elevation data in the data collection template.

For each of those identified agencies, the Consultant shall identity the impacts of sea level rise with respect to potential for inundation. Results are anticipated to be presented in a map format, illustrating location of the participating plants and areas of inundation. Development of costs for mitigation of sea level rise impacts are not included.

Task 5 Responsibilities

BACWA Agencies Responsibilities

- Discuss plant upgrade opportunities and constraints during the site visit (in Task 3)
- Review and comment on Draft Report section

HDR Team Deliverables

- Prepare Draft Report section(s) on facility upgrades (to be incorporated in Task 8). The report section(s) will include the following elements:
    - Describe prior and on-going plant upgrades and/or pilot studies

- Identify site specific constraints from the questionnaire responses and site visits
- Identify viable nutrient removal technology(s) to meet the defined nutrient limits from Task 2.1
- Describe the adverse and ancillary impacts for each technology considered to meet the defined nutrient limits or range (e.g., solids yield, micro-constituents removal, GHG emissions, etc.)
- Develop Capital and O&M cost estimates (energy, chemicals, and labor) and present in both annualized and net present values
- Identify plants vulnerable to the impacts of sea level rise

Task 6 – Potential Nutrient Discharge Reduction by Other Means

Per the Watershed Permit, dischargers may also decide to evaluate strategies that reduce nutrient loadings separate from the special studies identified in the Watershed Permit (Tasks 4 and 5). The Consultant shall incorporate / summarize information provided by participating agencies through the data collection template. No separate analysis of these strategies is included.

Task 6 Responsibilities

BACWA Agencies Responsibilities

- Provide relevant information for review and inclusion in the report
- Review and comment on the Draft Report section(s)

HDR Team Deliverables

- Compile alternative nutrient discharge reduction studies based on prior studies from each responding agency.
- Prepare a Draft Summary of the prior studies for each responding agency. This will be included as an Appendix to the Report

Task 7 – Group Annual Report

The purpose of this task is to gather and provide analysis of the magnitude and trends in nutrient loads from POTWs to the SF Bay.

Task 7.1 – Data Collection and Review

Consultant shall obtain the previous reporting year's nutrient loading data, covering July 1st to June 30th, from the California Integrated Water Quality System (CIWQS). The Consultant will identify data gaps and work with BACWA and its member agencies to address these. The nutrient load data will be sorted by subembayment to calculate aggregate loads.

Task 7.2 – Data Analysis and Reporting

Consultant shall compare data from each reporting year to data from previous reporting years, as well as data collected from the Water Code 13267 Letter issued by Regional Water Board Executive Officer (dated March 2, 2012) and compiled by San Francisco Estuarine Institute (SFEI). If significant trends in nutrient loads are observed (significant to be defined in the Scoping Plan in Task 2.1), the Consultant will request additional information from participating agencies regarding the cause of the trends.

Consultant will prepare draft and final Group Annual Reports for 2015, 2016, 2017, and 2018. The reports shall include graphical representations of the data.

Task 7 Responsibilities

BACWA Agencies Responsibilities

- Provide access to data and plant performance
- Answer questions about data, collection system and plant operations (Task 3)
- Review and discuss data discrepancies and gaps
- Review and comment on the Draft Group Annual Report

HDR Team Deliverables

- Identify questionable data and gaps
- Consolidate data sets in spreadsheet format for review; and final accepted data
- Prepare Draft and Final Group Annual Reports for 2015, 2016, 2017, and 2018

Task 8 – Reporting

This task includes the preparation of the Bay Area POTW Nutrient Optimization and Upgrade Evaluation Plan. The report shall include the technical information developed in Tasks 2 through 5. It is assumed the report will include an appendix for each participating plant to summarize the technical information developed in Tasks 2 through 5. The report body will be an executive summary style report that will summarize key information including the study approach and major findings and recommendations.

Consultant shall prepare an annotated report outline for review and approval following completion of Task 3.

The Draft Report will be released to the participating agencies for a 30 day comment period. Following the comment period, the Consultant will work with BACWA to prepare a Final Draft Report for submission to the Regional Water Board. After review by the Regional Water Board, the Final Report will be prepared.

Task 8 Responsibilities

BACWA Agencies Responsibilities

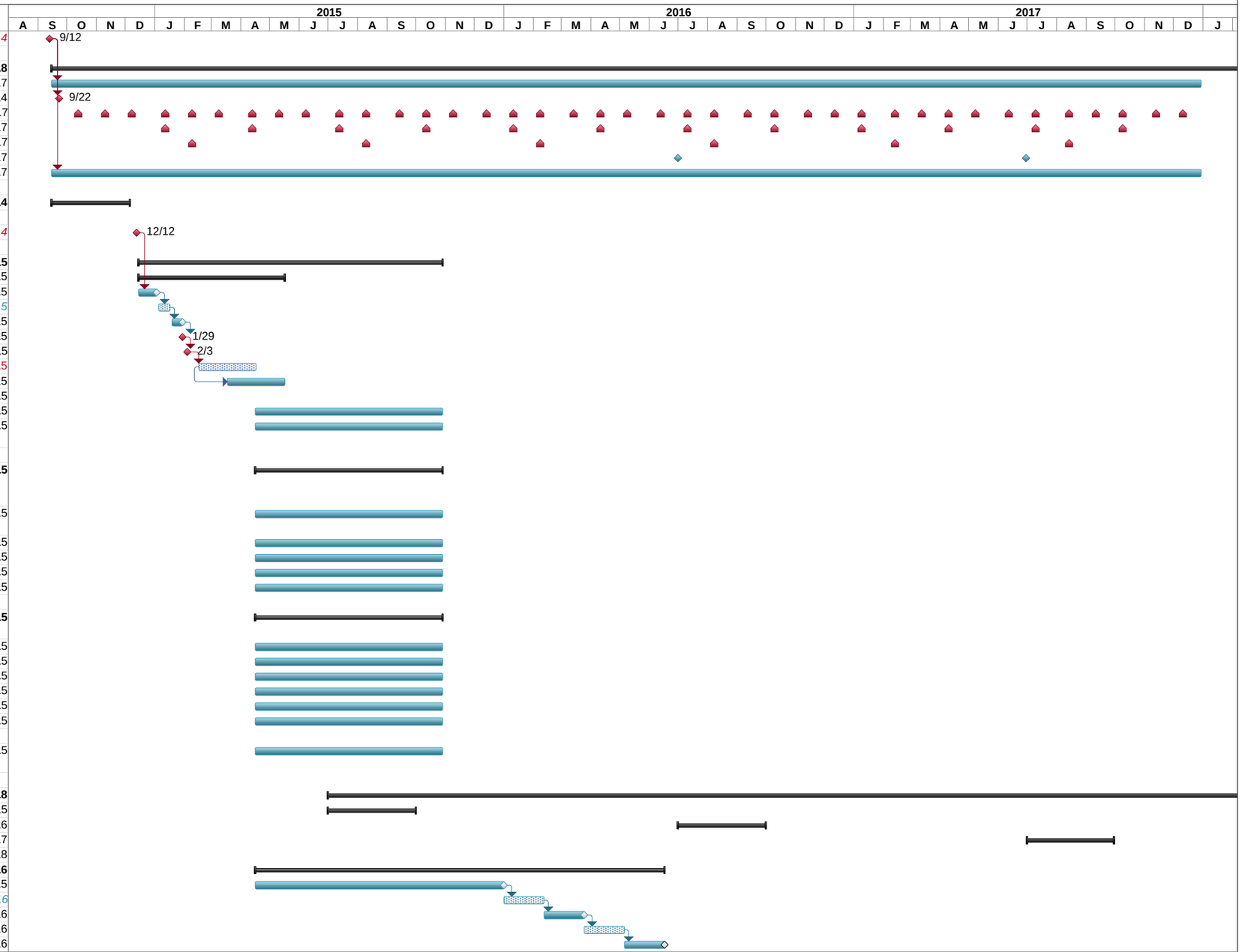
- Review and comment on the Draft Report
- Assist in addressing comments from the Water Board on the Final Draft Report

HDR Team Deliverables

- Draft Report - Bay Area POTW Nutrient Optimization and Upgrade Evaluation Plan
- Incorporate comments on the Draft Report and submit the Final Draft Report for review by the Water Board
- Incorporate comments from the Water Board and submit the Final Report

Figure 6-1. Project Schedule

ID	Task Name	Start	Finish
1	*Consultant Notice to Proceed*	*Fri 9/12/14*	*Fri 9/12/14*
2			
3	**Task 1 - Project Management and QA/QC**	**Mon 9/15/14**	**Mon 2/12/18**
4	Project Management	Mon 9/15/14	Fri 12/29/17
5	Kick-off Meeting	Mon 9/22/14	Mon 9/22/14
6	Monthly Meetings with BACWA CMG	Mon 10/13/14	Mon 12/11/17
46	Quarterly Progress Meetings	Mon 1/12/15	Mon 10/9/17
59	BACWA Membership Meetings	Mon 2/16/15	Tue 8/15/17
67	Status Updates to RWQCB	Fri 7/1/16	Fri 6/30/17
70	QA/QC Program	Mon 9/15/14	Fri 12/29/17
71			
72	**Task 2 - Scoping and Evaluation Plans**	**Mon 9/15/14**	**Fri 12/5/14**
84			
85	*NTP for Phase 2*	*Fri 12/12/14*	*Fri 12/12/14*
86			
87	**Task 3 - Data Collection and Synthesis**	**Mon 12/15/14**	**Wed 10/28/15**
88	Data Collection and Review	Mon 12/15/14	Sun 5/17/15
89	Draft Data Collection Template	Mon 12/15/14	Fri 1/2/15
90	*BACWA Review*	*Mon 1/5/15*	*Fri 1/16/15*
91	Final Data Collection Template	Mon 1/19/15	Thu 1/29/15
92	Distribute Final Data Collection Template	Thu 1/29/15	Thu 1/29/15
93	Conference Call to Review Data Collection Template	Tue 2/3/15	Tue 2/3/15
94	Participating Agencies Provide Data and Information	Mon 2/16/15	Fri 4/17/15
95	Data Review and Follow-Up	Wed 3/18/15	Sun 5/17/15
96	Site Visits by Operator/Engineer Teams	Thu 4/16/15	Wed 10/28/15
97	Summary of Existing Facilities	Thu 4/16/15	Wed 10/28/15
98	Evaluate the Impact on Nutrient Loads in Response to Other Regulations or Requirements	Thu 4/16/15	Wed 10/28/15
99			
100	**Task 4 - Special Study No. 1 - Evaluation of Potential Nutrient Discharge Reduction by Treatment Optimization and Sidestream Treatment**	**Thu 4/16/15**	**Wed 10/28/15**
101	Describe Existing Optimization, Minor Upgrades, and Sidestream Treatment	Thu 4/16/15	Wed 10/28/15
102	Evaluate Site-Specific Strategies for Process Optimization	Thu 4/16/15	Wed 10/28/15
103	Evaluate Sidestream Treatment Opportunities	Thu 4/16/15	Wed 10/28/15
104	Evaluate Beneficial and Adverse Ancillary Impacts	Thu 4/16/15	Wed 10/28/15
105	Develop Capital and Operating Costs	Thu 4/16/15	Wed 10/28/15
106			
107	**Task 5 - Special Study No. 2 - Evaluation of Potential Nutrient Discharge Reduction by Treatment Upgrades**	**Thu 4/16/15**	**Wed 10/28/15**
108	Describe Existing Technology Upgrades and Pilot Studies	Thu 4/16/15	Wed 10/28/15
109	Identify Site-Specific Constraints	Thu 4/16/15	Wed 10/28/15
110	Identify Potential Upgrade Technologies	Thu 4/16/15	Wed 10/28/15
111	Evaluate Beneficial and Adverse Ancillary Impacts	Thu 4/16/15	Wed 10/28/15
112	Develop Capital and Operating Costs	Thu 4/16/15	Wed 10/28/15
113	Evaluate Impact of Sea Level Rise	Thu 4/16/15	Wed 10/28/15
114			
115	**Task 6 - Potential Nutrient Discharge Reduction by Other Means**	Thu 4/16/15	Wed 10/28/15
116			
117	**Task 7 - Group Annual Report**	**Wed 7/1/15**	**Fri 9/28/18**
118	2015 Annual Report	Wed 7/1/15	Wed 9/30/15
124	2016 Annual Report	Fri 7/1/16	Fri 9/30/16
130	2017 Annual Report	Sat 7/1/17	Fri 9/29/17
136	2018 Annual Report	Sun 7/1/18	Fri 9/28/18
142	**Task 8 - Reporting**	**Thu 4/16/15**	**Thu 6/16/16**
143	Draft Report	Thu 4/16/15	Thu 12/31/15
144	*BACWA Review*	*Fri 1/1/16*	*Thu 2/11/16*
145	Draft Final Report	Fri 2/12/16	Thu 3/24/16
146	RWQCB Review	Fri 3/25/16	Thu 5/5/16
147	Final Report	Fri 5/6/16	Thu 6/16/16



Bay Area Clean Water Agencies
Order for Municipal Wastewater Discharges of Nutrients to San Francisco Bay

Task | Milestone | Summary | Meetings | Review Period

14121

Governance Workgroup (GW) Meeting No. 2

August 25, 2014

Meeting Summary

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

1. Welcome, Introductions, and Agenda Review

Discussed what we wanted to accomplish under each item.

2. Project Updates

David S. quickly reviewed the status of projects and the funding as presented on page 1 of the handout.

At next Steering Committee (SC) in October David S. will provide an update on the project status. A funding bar chart will be presented. The Conceptual Model should be done by then. SFEI has a project tracking tool that is being tested. It will provide easy access to project tracking for any member of the SC. *David S. will send the project tracking tool to the members of the Governance Workgroup (GW) who will provide comments within one week.*

Discuss the need to engage the SC in discussions and seeking their input and not just presenting material to them.

3. Long Range Planning Overview

NMS Plan for FY 15

The GW discussed the need to have goals for the SC and to have a plan in place for the next 5 meetings.

The GW reviewed the list of topics for FY 2015 provided on page 2 – 3 of the handout. It was noted that the topic of formally establishing an Executive Committee of the SC and the need for a Program Coordinator/Manager were not specifically mentioned in the list of topics.

The question was raised as to whether the topics, particularly the science topics, were intended to provide an update or a forum for discussion? If a forum for discussion, the following were suggested questions for discussion items:

a. What are key assumptions being made?
b. What are key findings?
c. When is a peer review process needed?
d. What is the timing for conduct of the Science Plan, 5 yr, 10yr?
e. Are artificial deadlines being set?

A key concern is that enough progress needs to be made to be able to inform the next permit.

David S. will revise the table of topics and circulate to the GW for comment. Comments are due one week after receipt of revised table.

Science Plan Development

Need to engage the SC at the front end of developing a Science Plan and also engage the SC in discussing the management priorities for the Science Plan. Suggestion was to use the time at the next SC meeting to provide a "modified straw man" of management priorities. It is important to figure out how to structure that dialogue with the SC. A key is to focus on the "must do", "no regrets" activities. A question was raised as to whether this discussion with the SC should have the Science Manager "teeing it up" vs. asking open ended questions. The thinking was that the Science Manager needs to put himself in the shoes of the SC members and teeing up the issues and consequences for their debate and input.

A question was raised as to what does this process hope to accomplish from the different SC perspectives. It was pointed out that of the 6 major and 22 minor science questions that have been prepared by the Science Manager, every member of the SC will probably have some sense of which ones are most important to them. Probably don't have the time to go thru all 28 questions with the SC but should get a sense of the relative importance of the science questions posed by the Science Manager.

4. Prepare Steering Committee Meeting No. 3 Agenda

Definitely need a discussion of the Science Plan at the meeting. The proposed agenda on page 4 – 5 of the handout showed 3 hrs for the discussion. The Science Plan needs to inform all future budget discussions by the SC. The Plan needs to be done in advance of May 2015 when the SC will be making decisions on funding of projects for FY 16. If the Plan gets finalized in May 2015 but had the benefit of several reviews prior to finalizing, that would probably work as well.

After reviewing the proposed agenda which totaled 9 hours, a proposal was made to pare back the agenda to 4 ½ hours as follows:

30 min.	-Final Charter
	-report our on GW
45 min.	-update on funding decisions
	-decisions on allocating remaining funds
45 min.	-status of nutrient strategy process
90 min.	-Science Plan development
60 min.	-DWR/IEP phytoplankton data presentation

It was noted that preparatory materials need to get distribute well in advance of the SC meeting so members have a chance to adequately review the material. On the DWR/IEP phytoplankton presentation, the GW felt that it was an important part of the agenda and felt it should be given high priority on the agenda. It setting the order of the agenda consideration may want to be given to having the highest priority items first on the agenda so that they get the time and attention deserved. Items also need to be properly framed in discussing the agenda.

The scheduling of SC Meeting No. 4 was discussed with the realization that if it were to be held before the end of the year, it would present a very challenging timing issue in terms of getting material prepared and distributed to the SC membership given that Meeting No. 3 will have just been held in October.

Not all the discussion on the Science Plan may be possible at Meeting No. 3 and thus there may be some carryover to Meeting No. 4. The goal would be to have the Science Plan and the Program Coordinator/Manager discussion concluded by the end of Meeting No. 4.

Once again the key is to be able to make funding decisions in June 2015.

5. Governance Discussion/Program Coordination

There was not enough time to discuss Optional Agenda Item 5a. Interaction Between Science Manager, SC, and Water Board, or Item 5b. Program Coordination

These will be agendized at the next meeting.

6. **Action Items/Next Steps** All Action Items are shown in *italics.*

The meeting concluded with a discussion of the date for the next meeting of the GW. Tentatively the meeting would be held on the 8th or 11th and be a 3 hour meeting. *David C. will arrange for the meeting date and time.*

Governance Workgroup (GW) Meeting No. 3

September 8, 2014

Meeting Summary

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

1. **Welcome, Introductions, and Agenda Review**

Discussed what we wanted to accomplish under each item.

2. **Governance Discussion – Direction/Interaction Science Manager, Program Manager, Steering Committee, Water Board**

David C. quickly introduced the topic and a lengthy discussion ensued. A discussion followed as to what the GW would handle, with recommendations to the Steering Committee (SC), vs. what goes directly to the SC.

It was felt that the Water Board (WB) should not, in general, be viewed as an arbiter on issues. Also, due to the impracticality of having the Science Manager (SM) report to a body of 15 people, that perhaps an executive type committee should be established.

This type of effort has been undertaken in the past. Examples are the CEP and the South Bay SSO for copper. The intent is to have a governing body engaged in joint fact finding and an overall multi-year plan in place with annual focus.

Formalizing the GW will require modification to the Charter.

It was proposed and agreed to permanently codify the GW and have it be called the Steering Committee's Planning Subcommittee (PS).

The role of the PS will be to "keep the trains moving" between SC meetings. It would tee things up for the SC to decide. It would propose "should do" vs "must do" items. Suggestions raised at the SC would be referred back to the PS for further vetting and investigation and then brought back to the SC with recommendations.

It was decided that the Facilitator should draft language for the Charter to codify the PS and provide guidance on the number and make-up of the members of the

PS so that it does not become unwieldy and has a balanced membership. The guidance should not be overly prescriptive. The goal would be to have the PS be balanced but not exhaustive in its membership. A question should be raised to the SC as to who should be on the PS. One concept would be to have candidates for the PS make a pitch to the SC and have the SC vote on the membership.

It was agreed that Ian and Ben would make a proposal at the next SC meeting to form an ad hoc group to explore the creation of the PS. The Facilitator will draft language for this proposal and circulate speaking points for review by the Governance workgroup.

3. Discussion and Recommendation – Annual Program Coordination

The need for a Program Coordinator was discussed. This position would ensure that the work of the SC gets done. In the near term it was agreed that facilitation services would continue to be needed. Some of the duties of a Program Coordinator would include following up on action items from the SC meetings. Providing support to the SC and the new PS, and providing oversight of the science program which is managed by the Science manager.

The Science Manager provided a graphic which depicted various tasks that are needed to bridge the gap between the science and the process aspects of the NMS. These tasks include the following activities:

a. Facilitation
b. Communication
c. Budgeting
d. Tracking
e. Work Planning
f. Strategy development
g. Stakeholder engagement

It is important as the NMS progresses that the Science manager can extricate himself from political issues. SFEI needs to maintain an unimpeachable position on the science. CCP can provide mediator services since that is one of their fortes. An example of the need for a Program Manager could be if the SC decides it might be beneficial to pursue nutrient trading. Technical expertise would be helpful in leading the charge on such an effort.

The discussion then moved on to the issue of available funding. A handout provided showed 17 tasks that could be undertaken between CCP and SFEI for coordination support for the NMS. These tasks totaled $378,000 in needed funding. It was estimated that of the $378,000 that was envisioned to be needed to provide program

coordination, roughly $200,000 was already being provided as part of the science management efforts. It was estimated that perhaps a 25% fulltime equivalent person (FTE) would be needed to provide program management and 16% FTE for facilitation. That effort would equate to roughly 850 man-hours/yr. and at $150/MH results in a cost of $130k. BACWA had indicated a willingness to fund ½ of the program coordination effort should would leave about $65k to be funded from the pot of funds avalbie for the science program.

A question was raised about the need for peer review. It was estimated that about $50k might be needed for peer review.

Currently there is about $445k of funds remaing in FY 15 to be allocated. ***The 3 Davids will work together to take a first crack at allocating those remaining funds.*** In looking at the 17 tasks, they should lump them into categories of those that must be done and then prioritize the remaining tasks that should be done. The allocation should show man-hours as opposed to proposing who would actually do the work. Once reviewed by the Governance Workgroup, this allocation of the remaining funds would be brought to the SC at their next meeting on October 27th.

4. **Steering committee Meeting No. 3 Agenda**

The discussion of program coordination should be on the agenda of the next SC meeting. The goal is to have all material for the next SC meeting be available two weeks in advance.

A standing agenda item should be added to the SC agenda for Committee Reports. The Governance workgroup should report out on their meetings at the next meeting of the SC.

A request was also made to have a report out of the activities in the CVRWQCB area on their nutrient efforts. ***The Facilitator will alert the members of the SC from the CVRWQCB to give the report.***

5. **Action Items/ Next Steps**

Action Items are shown in italics in the minutes

6. **Adjourn at 12:15 pm**

EPA's Formal Objection to Toxicity in Two of LACSD's Permits

Updated 9/18/14

EPA has issued a formal objection letter (attached) to the draft permits that the Region 4 Water Board has developed for two of LACSD's facilities (Pomona and Whittier Narrows). At the CASA Regulatory Workgroup meeting on Thursday 9/11, Phil Markle from LACSD gave a description of the context and contents of the letter. EPA was able to obtain advance copies of the two draft permits before they were shown to LACSD, and this letter pertains to those advance drafts.

EPA makes one requirement in the letter, which is that the permits should contain effluent limits, rather than triggers, for chronic toxicity. LACSD's feeling is this is fine, and they will not challenge it, since they believe that the Toxicity Plan (Plan), which will likely require effluent limits, will be adopted in the next year or so and they will have limits anyway. Region 4 favors a blanket permit amendment when the Plan is adopted which will implement limits immediately for everyone in their Region. Bay Area agencies might feel differently, since Region 2 has indicated they would implement the Plan on a permit-by-permit basis, and therefore some agencies would not have limits for up to five years after the Plan is adopted.

The remainder of the letter contains EPA's recommendations for implementing the toxicity limits. The draft permits were shown to LACSD on Thursday 9/11, and Region 4 has incorporated all of these recommendations. They include the following:

- Chronic Toxicity is determined using the TST (LACSD used the NOEC in previous permits)
- The permit contains both MDELs (max day effluent limits) and MMELs (median monthly effluent limits).
- The most sensitive species screening test is now a compliance test.
- When a test fails the TST, exactly two more tests must be run for the 3-sample MMEL even if the second test fails as well.
- For routine monitoring, a 2-concentration test would be required. (i.e., forbidding using data from tests at additional concentrations for compliance purposes.) Conversely, a multi-concentration test is required during accelerated monitoring. Multi-concentration tests provide a valuable QA/QC benefit and could provide evidence to invalidate a false determination of toxicity.
- No protection is given against accumulating additional monthly violations during the TRE process.

It would appear that the EPA is aiming to circumvent the Toxicity Plan development process that BACWA has engaged in with the State Water Board over the past several years. LACSD is planning to challenge these recommendations. BACWA will need to investigate whether these changes will be pushed into Bay Area permits, and how they relate to the adoption of the Plan.

CASA will lead the POTW effort moving forward to work with both EPA and the State Water Board to find out what their plans are state-wide, and what our next steps should be. BACWA may want to offer support to LACSD's challenge once it becomes clear what form that will take.

While Lorien Fono on leave for the remainder of 2014, Tim Potter and Jim Ervin will be the BACWA leads in this effort and will keep the BACWA Executive Board apprised of developments in this area.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105-3901

Certified Mail No. 7003 2260 0000 8859 4125
Return Receipt Requested

September 4, 2014

Samuel Unger, Executive Officer
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Re: Formal objection letter for pre-notice draft NPDES permits for the Joint Outfall System's Whittier Narrows Water Reclamation Plant (NPDES No. CA0053716) and Pomona Water Reclamation Plant (NPDES No. CA0053619)

Dear Mr. Unger:

Through this letter, the U.S. Environmental Protection Agency, Region 9 (EPA) formally objects to the pre-notice draft NPDES permits for discharges from the Whittier Narrows and Pomona water reclamation plants, based on Clean Water Act (CWA) section 402(d)(2) and 40 CFR 123.44, and the 1989 NPDES Memorandum of Agreement (MOA). EPA issued an initial objection to these pre-notice draft permits on July 31, 2014. As you know, in conformance with our 1989 NPDES MOA, EPA's initial objection has delayed the permits' public notice pending action under MOA section II.C.4. Accordingly, EPA is expediting issuance of the formal objection letter to avoid undue delay of the permits' final issuance. This formal objection letter describes the changes to the permits that are required as a condition to eliminate EPA's formal objection, based on 40 CFR 123.44(c)(4), (5), and (8). These necessary changes relate to numeric effluent limitations for whole effluent toxicity (WET) and are included as Attachment 1 (Whittier Narrows Water Reclamation Plant) and Attachment 2 (Pomona Water Reclamation Plant) of this letter.

As stated previously, based on WET data provided by your staff, EPA concurs that discharges from both plants exhibit the reasonable potential to exceed the narrative water quality standard for chronic toxicity in the Los Angeles Region Basin Plan and that water quality based effluent limits (WQBELs) are required under 40 CFR 122.44(d)(1)(i) and (v). The permits, however, do not meet the CWA statutory and regulatory requirements because the proposed chronic toxicity effluent "limit" in the pre-notice draft permits is a "trigger" for further investigation, rather than an actual WQBEL. This concern needs to be addressed to ensure these permits include effluent limitations as stringent as necessary to meet water quality standards and comply with NPDES requirements. Moreover, while the permits include clear, correctly expressed numeric effluent limits for chemical-specific pollutants necessary to meet CWA

requirements for NPDES effluent limits, the permits do not have numeric WQBELs for WET, nor is there an explanation as to why these would be infeasible to calculate. We are concerned that WET is treated differently than chemical-specific pollutants in a way that is inconsistent with NPDES regulations, and that a corresponding lack of transparency, clarity, and enforceability for chronic toxicity WQBELs results from this difference in approach. These concerns have been identified and expressed to the State and Regional Water Boards in EPA's 2014 draft and 2008 NPDES permit quality review reports.

A. Permits must include WQBELs for chronic toxicity: "triggers" for further investigation are not WQBELs.

In 1989, EPA promulgated regulations at 40 CFR 122.44(d)(1) implementing CWA section 301(b)(1)(C) to administer the development and implementation of WQBELs for both narrative and numeric water quality criteria. Under the regulations, WQBELs must control all pollutants, including WET, that will be discharged at a level that causes, has the reasonable potential to cause, or contributes to an exceedance above any State water quality standard. 40 CFR 122.44(d)(1)(i). CWA section 502(11) defines "effluent limitation" as "any restriction established by the State or Administrator on quantities, rates, and concentrations of chemical, physical, biological, or other constituents which are discharged from point sources into navigable waters." NPDES permits must contain "effluent limitations" for WET where reasonable potential has been demonstrated for excursion above a narrative criterion. 40 CFR 122.44(d)(1)(v).

The Whittier Narrows and Pomona permits express a chronic toxicity requirement as a series of steps which include a narrative trigger for further investigation of effluent toxicity, not as an effluent limitation for WET. The "There shall be no chronic toxicity in the effluent discharge" language is imbedded in a section of the permit that discusses multiple triggers and subsequent monitoring and investigation of the effluent. The series of triggers and resulting investigations are comprised of accelerated toxicity testing following a median monthly effluent trigger of "Fail," and a toxicity identification evaluation following a single sample trigger of "Fail" in two of six accelerated toxicity tests. Taken together, these toxicity triggers simply require further investigation, and thus do not meet the definition of "effluent limitation" under the CWA, as they do not restrict the "quantity, rate, or concentration" of pollutants in the effluent. CWA section 502(11). Therefore, these permit conditions require only further toxicity testing and investigation and are not sufficient to meet the regulatory requirement that permits contain "effluent limitations" for WET where reasonable potential has been demonstrated for an exceedance above a narrative criterion. 40 CFR 122.44(d)(1)(v). The relevant provisions of the permits are:

Whittier Narrows permit section IV.C.f.

f. Chronic Toxicity Trigger and Requirements:

The chronic toxicity of the effluent shall be expressed and reported as "Pass" or "Fail" as Median Monthly Effluent Trigger (MMET). The MMET for chronic toxicity shall only apply when there is a discharge

more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in "Fail."

i. There shall be no chronic toxicity in the effluent discharge.

ii. If the chronic toxicity of the effluent yields a "Fail" result as the MMET then the Permittee shall immediately implement accelerated chronic toxicity testing according to Attachment E - MRP, Section V.A.7. If any two out of the initial test and the six accelerated tests results yields a "Fail", then the Permittee shall initiate a TIE and implement the Initial Investigation TRE Workplan, as specified in Attachment E – MRP, Section V.A.

iii. The Permittee shall conduct chronic toxicity monitoring as specified in Attachment E – MRP.

Pomona permit section IV.A.3.g.

g. Toxicity Trigger and Requirements:

i. The chronic toxicity of the effluent shall be expressed and reported as "Pass" or "Fail," as a Median Monthly Effluent Trigger (MMET). The MMET for chronic toxicity shall only apply when there is a discharge more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in "Fail".

ii. There shall be no chronic toxicity in the effluent discharge.

iii. If the chronic toxicity of the effluent yields a "FAIL" result as the MMET, then the Discharger shall immediately implement accelerated chronic toxicity testing according to Attachment E – MRP, Section V.B.3. If any two of the six accelerated test results yields a "FAIL," then the Discharger shall initiate a TIE and implement the Initial Investigation TRE Workplan, as specified in Attachment E – MRP, Sections V.D and V.E.

iv. The Discharger shall conduct chronic toxicity monitoring as specified in Attachment E – MRP.

To meet the requirements of the CWA and supporting regulations, specifically CWA sections 301(b)(1)(C) and 502(11) and 40 CFR 122.44(d)(1)(i) and (v), these provisions must be changed to clearly require actual effluent limits on chronic WET where there is a demonstration of reasonable potential. Furthermore, to clarify permit compliance requirements, the permits should be revised to define chronic toxicity and specify compliance determination provisions for

the required chronic WET WQBEL (in Order section VII), in a manner that directly links the expression of the required chronic WET WQBEL (40 CFR 122.44(d)(1)) to the required effluent monitoring results to be reported for chronic toxicity (40 CFR 122.48). Necessary and recommended changes for the permits are specifically described in Attachments 1 and 2 of this letter.

B. WQBELs must be as stringent as necessary to meet water quality standards, including numeric WQBELs as needed.

Even if the requirements related to the aim of "no chronic toxicity" in the effluent were expressed as a valid narrative WQBEL for WET, the Los Angeles Regional Water Quality Control Board (L.A. Regional Water Board) has failed to justify how such a narrative requirement would achieve water quality standards, as would be the case with a numeric limit. The L.A. Regional Water Board, like other Regional Water Boards in California, may be following State Water Resources Control Board (State Water Board) Water Quality Order (WQO) 2003-0012 (and other related precedential WQOs) for the expression of chronic toxicity WQBELs for non-ocean publicly owned treatment works (POTW) permits, which does not provide for the use of numeric effluent limits for chronic toxicity, nor for the chemical(s) causing toxicity. As we have previously discussed with the State Water Board, WQO 2003-0012 misapplies 40 CFR 122.44(k)(3)—which provides that effluent limits may be other than numeric—because the WQO ignores the need to show the infeasibility of calculating numeric WQBELs in order to justify a non-numeric effluent limit. Moreover, to comply with the CWA, the L.A. Regional Water Board must ensure that the WQBEL for chronic WET will be as stringent as necessary to meet water quality standards. CWA section 301(b)(1)(C) and 40 CFR 122.44(d)(1). Thus, even if the L.A. Regional Water Board were to make clear the requirement that "There shall be no chronic toxicity in the effluent discharge" is an independently enforceable chronic WET WQBEL, it must demonstrate why such a narrative limit will control the discharge as stringently as necessary to meet water quality standards and why a numeric WQBEL is not feasible.

Furthermore, WET tests measure the biological responses of test organisms in an effluent relative to test organisms in a negative control. The responses are quantified in biological terms (e.g., mean proportion of surviving organisms, mean dry weight of surviving organisms). Different options for formal statistical analyses then follow for reporting WET test results required under NPDES permits (i.e., hypothesis testing approaches, point estimation techniques). Consequently, permit writers setting NPDES effluent limits for WET need to connect the expression of the required WQBEL with the expressions of both the applicable water quality standard and the monitored and reported WET test results, as explained in the examples below.

California's chronic toxicity water quality objective in ocean waters is established as 1 chronic toxic unit. 2012 California Ocean Plan, page 7. Likewise, for non-ocean waters regulated by the Basin Plan (e.g., as described in technical documents for chronic toxicity total maximum daily loads in the Calleguas Creek watershed and waters of Dominguez Channel and Los Angeles/Long Beach Harbors), the L.A. Regional Water Board has established water toxicity targets of 1 chronic toxic unit to meet the Basin Plan's narrative toxicity objective and protect

aquatic life beneficial uses when toxicity of unknown causes may occur. The objective and these targets are used to set WQBELs for chronic WET that are numeric. Their use is a valid and reasonable approach to implement water quality standards that are either numeric or narrative. For the Whittier Narrows and Pomona permits, the L.A. Regional Water Board has not provided any explanation as to why it would be infeasible to calculate numeric WET limits for chronic toxicity. By contrast, on May 8, 2014, the L.A. Board adopted and issued permits for three POTWs in the Calleguas Creek watershed that contain numeric chronic toxicity WQBELs. Additionally, toxicity WQBELs in NPDES permits for POTWs issued in California which are not governed by WQO 2003-0012 are expressed numerically. Similarly, current Arizona POTW permits illustrate the feasibility of requiring numeric chronic WET WQBELs. The Arizona Department of Environmental Quality routinely calculates and incorporates a median monthly effluent limit of 1 chronic toxic unit and a maximum daily effluent limit of 1.6 chronic toxic units into POTW permits with no authorized mixing zone or dilution allowance.

Moreover, it is important to note that the Whittier Narrows and Pomona discharges have no authorized mixing zone or dilution allowance for pollutants, including WET, because they are to receiving waters which often do not have the safety factor of diluting ambient upstream flows that can decrease the effect of toxic discharges. Under such discharge and receiving water conditions, the use of numeric WQBELs provides a clear and enforceable means to protect water quality.

For toxicity (and other pollutant parameters toxic to aquatic life), numeric average (or median) monthly and maximum daily WQBELs will: (1) numerically restrict the highly toxic daily discharges that are of significant concern for protection of water quality standards when they occur; (2) ensure longer term compliance with toxicity water quality standards; and (3) clarify permit compliance requirements for everyone. Accordingly, absent a demonstration that numeric WQBELs are infeasible to calculate, the narrative WQBELs in these permits are inconsistent with the regulatory requirements at 40 CFR 122.44(k)(3).

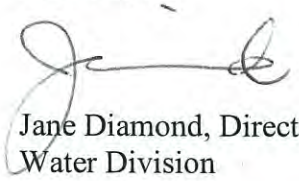
C. <u>POTW effluent limits for toxicity must meet 40 CFR 122.45(d) and act as WET WQBELs that meet water quality standards for aquatic life protection under 40 CFR 122.44(d)(1)(i).</u>

EPA agrees with the permits' fact sheets determination under 40 CFR 122.45(d) that a maximum daily WQBEL is necessary to protect against highly toxic short-term peaks of acute or chronic toxicity and meet water quality standards. We note, however, that despite this determination, the permits do not include the necessary daily and monthly WQBELs for chronic WET. This is not only internally illogical, but also environmentally significant. Without WQBELs expressed as daily and monthly limits, these permits do not meet 40 CFR 122.45(d) and 40 CFR 122.44(d)(i). The L.A. Regional Water Board can address this concern by following the approach used in the three POTW permits adopted on May 8, 2014 referenced above, and in permits not governed by WQO 2003-0012 that incorporate quantitative/numeric daily and monthly WQBELs for chronic toxicity (and toxic chemicals).

EPA requests that the L.A. Regional Water Board redraft the permits to address this formal objection, as described above and in Attachments 1 and 2. The revised permits must be submitted to EPA for review within 90 days of receipt of this letter, in accordance with MOA section II.C.4 and 40 CFR 123.44. If the L.A. Regional Water Board does not resubmit revised permits that address EPA's objection within 90 days of receipt of this letter, EPA shall acquire exclusive NPDES authority over the discharges pursuant to 40 CFR 123.44(h)(3), as described under the MOA. The L.A. Regional Water Board may request a hearing on EPA's objection pursuant to MOA section II.C.4.d.2 and 40 CFR 123.44(c).

If you have questions regarding our formal objection to the subject pre-notice draft permits, please call me, John Kemmerer at (213) 244-1832, David Smith at (415) 972-3464, or Robyn Stuber at (415) 972-3524. We look forward to the expeditious resolution of our concerns regarding these permits.

Sincerely,



Jane Diamond, Director
Water Division

cc: Tom Howard, Executive Officer—California State Water Resources Control Board

Grace Robinson Hyde, Chief Engineer and General Manager—County Sanitation Districts of Los Angeles County

Attachment 1

Whittier Narrows Water Reclamation Plant
NPDES No. CA0053716

A. Required Changes.

Based on applicable CWA statutory and regulatory requirements for NPDES effluent limits and relevant information provided in the pre-notice draft permit's fact sheet, the effluent limitations sections of the permit (see Order section IV.A.1.a, Table 4; and Order section IV.B.1.a, Table 5) must be revised to clearly require actual WQBELs for chronic WET which are numeric and incorporate both a daily and monthly expression. The WQBELs must be expressed in a manner that is clearly enforceable and specifically describes testing, analysis, and reporting procedures with which permit compliance will be evaluated. 40 CFR 122.48.

B. Recommended Changes.

Numeric WQBELs for chronic WET in these permits should be accompanied by clear, detailed descriptions of how WET tests are to be conducted and evaluated for compliance evaluation purposes. One possible approach, consistent with the conventions used by the L.A. Regional Water Board, are the recommend following changes to clarify the expression of effluent limitations and the reporting of compliance monitoring results for chronic WET:

1. The conventions used by the L.A. Regional Water Board to translate the Basin Plan's narrative toxicity objective into WET WQBELs for continuous discharges rely on a chronic toxicity MDEL and MMEL, expressed in units of the Test of Significant Toxicity (TST) hypothesis testing approach ("Pass" or "Fail" and "Percent Effect") (see table below). Based on these conventions, which include the L.A. Regional Water Board's chosen statistical approach for interpreting toxicity, the following WQBELs and implementation language are recommended for the permit (see Order section IV.A.1.a, Table 4; and Order section IV.B.1.a, Table 5):

Parameter	Units	Median Monthly Effluent Limitation	Maximum Daily Effluent Limitation
Chronic Toxicity[1]	Pass or Fail, % Effect (Test of Significant Toxicity)	Pass	Pass or % Effect < 50

[1] The median monthly effluent limitation (MMEL) shall be reported as "Pass" or "Fail". The maximum daily effluent limitation (MDEL) shall be reported as "Pass" or "Fail" and "% Effect". The MMEL for chronic toxicity shall only apply when there is a discharge more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in "Fail".

2. Similarly, based on the L.A. Regional Water Board's chosen statistical approach for interpreting toxicity and limiting WET, the following additions (italicized language) to the permit's chronic toxicity compliance determination provision (Order section VII.I) are recommended:

The Maximum Daily Effluent Limitation (MDEL) for chronic toxicity is exceeded and a violation will be flagged when a chronic toxicity test, analyzed using the TST approach, results in "Fail" and the "Percent Effect" is ≥0.50.

"*MMET*" should be corrected to "*MMEL*".

Also, if the TST approach is used, using a 2-concentration test design for data analysis, we recommend the addition of new language to this section of the permit to clarify the transparent reporting of WET test monitoring results. The following italicized language would be appropriate to ensure that valid WET test monitoring results are not improperly reported, or otherwise rendered invalid for NPDES compliance reporting, by the Permittee:

The chronic toxicity MDEL and MMEL are set at the IWC for the discharge (100% effluent) and expressed in units of the TST approach ("Pass" or "Fail", "Percent Effect"). All NPDES effluent compliance monitoring for the chronic toxicity MDEL and MMEL shall be reported using only the 100% effluent concentration and negative control, expressed in units of the TST. The TST hypothesis (Ho) (see above) is not tested using a multi-concentration test design; therefore, the concentration-response relationship for the effluent and/or PMSDs are not reviewed or used to interpret the TST result reported as the effluent compliance monitoring result.

3. Under Order section VII, we recommend adding the following revision related to compliance determination for the required median monthly WQBEL for chronic WET. This language is in existing L.A. Regional Water Board NPDES permit requirements for chronic toxicity compliance determination:

Median Monthly Effluent Limitation (MMEL)

If the median of daily discharges over a calendar month exceeds the MMEL for a given parameter, an alleged violation will be flagged and the Permittee will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of noncompliance in a 31-day month). However, an alleged violation of the MMEL will be considered one violation for the purpose of assessing State mandatory minimum penalties. If no sample (daily discharge) is taken over a calendar month, no compliance determination can be made for that month with respect to effluent violation determination, but compliance determination can be made for that month with respect to reporting violation determination.

4. Based on the L.A. Regional Water Board's chosen statistical approach for interpreting toxicity and limiting WET, addition of the following italicized effluent monitoring

language is recommended for addition to Monitoring and Reporting Program section IV.A.1, Table E-3:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Chronic Toxicity	Pass or Fail, *% Effect (Test of Significant Toxicity)*	24-hour composite	Monthly[1]	[1]
[1] The Permittee shall conduct whole effluent toxicity monitoring as outlined in section V. Please refer to section V.A.7 for the accelerated monitoring schedule. The median monthly summary result shall be reported as "Pass" or "Fail". The maximum daily single result shall be reported as "Pass" or "Fail" and "% Effect". When there is a discharge more than one day in a calendar month period, exactly three independent toxicity tests are required when one toxicity test results in "Fail".				

5. Similarly, under Monitoring and Reporting Program section V.A.5.b, the following correction (italicized language) related to the chronic toxicity MMEL is recommended:

"*Median Monthly Effluent Trigger (MMET)*" should be corrected to "*Median Monthly Effluent Limit (MMEL)*".

6. Under Monitoring and Reporting Program section V.A.5.c, we are recommending the addition of new language (italicized) for chronic toxicity monitoring to help explain reporting of WET test compliance monitoring results. This language clarifies that the only test acceptability criteria (TAC) used to invalidate a WET test result are the TAC in EPA's WET test methods:

If the effluent toxicity test does not meet all test acceptability criteria (TAC) specified in the referenced test method *(see Table x, below)*, then the Permittee must re-sample and re-test within 14 days.

Table x. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (U.S. EPA 2002, EPA-821-R-02-013).	
U.S. EPA Test Method Number	*Test Acceptability Criteria (TAC)*
Fathead Minnow, Pimephales promelas, Larval Survival and Growth Test Method 1000.0 (Table 1).	*80% or greater survival in controls; average dry weight per surviving organism in control chambers equals or exceeds 0.25 mg. (required)*
Daphnid, Ceriodaphnia dubia, Survival and Reproduction Test Method 1002.0 (Table 3).	*80% or greater survival of all control organisms and an average of 15 or more young per surviving female in the control solutions. 60% of surviving control females must produce three broods. (required)*

Green Alga, Selenastrum capricornutum, Growth Toxicity Test Method 1003.0 (Table 3).	*Mean cell density of at least 1 X 10^6 cells/mL in the controls; and variability (CV%) among control replicates less than or equal to 20%. (required)*

7. To explain proper reporting for reference toxicant test results, we recommend adding the italicized language to the second sentence of Monitoring and Reporting Program section V.A.5.e:

   All reference toxicant test results should be reviewed and reported *using the EC25.*

8. To explain proper reporting of effluent toxicity tests conducted during periods of species sensitivity screening, we recommend that Monitoring and Reporting Program section V.A.4 be revised to include the following new final paragraph:

   During the calendar month, toxicity tests used to determine the most sensitive test species shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL and MMEL.

9. We recommend deleting Order section VI.C.2.a because it duplicates, but also in part conflicts with, portions of Monitoring and Reporting Program sections V.A.6 through V.A.8.

10. To explain proper reporting of effluent toxicity tests conducted during accelerated monitoring schedules, we recommend that the second paragraph under Monitoring and Reporting Program section V.A.7 be revised to include the following italicized language. This should help to ensure that valid WET test monitoring results are not improperly reported, or otherwise rendered invalid for NPDES compliance reporting, by the Permittee:

    Within 24 hours of the time the Permittee becomes aware of this result, the Permittee shall implement an accelerated monitoring schedule consisting of four, five-concentration toxicity tests (including the discharge IWC), conducted at approximately two week intervals, over an eight week period*; in preparation for the Toxicity Reduction Evaluation (TRE) process and associated reporting, these results shall also be reported using the EC25*. If each of the accelerated toxicity tests results in "Pass", the Permittee shall return to routine monitoring for the next monitoring period. If one of the accelerated toxicity tests results in "Fail", the Permittee shall immediately implement the TRE Process conditions set forth below. *During accelerated monitoring schedules, only TST results ("Pass" or "Fail", "Percent Effect") for chronic toxicity tests shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL and MMEL.*

11. To explain proper reporting of effluent toxicity tests conducted during a Toxicity Reduction Evaluation (TRE), we recommend that Monitoring and Reporting Program section V.A.8 be revised to include the following opening paragraph:

During the TRE Process, monthly effluent monitoring shall resume and TST results ("Pass" or "Fail", "Percent Effect") for chronic toxicity tests shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL and MMEL.

12. We recommend revising Order section V.A.19 and associated chronic toxicity receiving water monitoring provisions (in Monitoring and Reporting Program section VIII.A.1, Table E-4) to be consistent with existing L.A. Regional Water Board NPDES permit requirements for chronic toxicity in the May 8, 2014 permits for Camarillo, Simi Valley, and Thousand Oaks water reclamation plants, and in permits not governed by WQO 2003-0012.

Attachment 2

Pomona Water Reclamation Plant
NPDES No. CA0053619

A. Required Changes.

Based on applicable CWA statutory and regulatory requirements for NPDES effluent limits and relevant information provided in the pre-notice draft permit's fact sheet, the effluent limitations sections of the permit (see Order section IV.A.1.a, Table 4) must be revised to clearly require actual WQBELs for chronic WET which are numeric and incorporate both a daily and monthly expression. The WQBELs must be expressed in a manner that is clearly enforceable and specifically describes testing, analysis, and reporting procedures with which permit compliance will be evaluated. 40 CFR 122.48.

B. Recommended Changes.

Numeric WQBELs for chronic WET in these permits should be accompanied by clear, detailed descriptions of how WET tests are to be conducted and evaluated for compliance evaluation purposes. One possible approach, consistent with the conventions used by the L.A. Regional Water Board, are the recommend following changes to clarify the expression of effluent limitations and the reporting of compliance monitoring results for chronic WET:

1. The conventions used by the L.A. Regional Water Board to translate the Basin Plan's narrative toxicity objective into WET WQBELs for continuous discharges rely on a chronic toxicity MDEL and MMEL, expressed in units of the Test of Significant Toxicity (TST) hypothesis testing approach ("Pass" or "Fail" and "Percent Effect") (see table below). Based on these conventions, which include the L.A. Regional Water Board's chosen statistical approach for interpreting toxicity, the following WQBELs and implementation language are recommended for the permit (see Order section IV.A.1.a):

Parameter	Units	Median Monthly Effluent Limitation	Maximum Daily Effluent Limitation
Chronic Toxicity[1]	Pass or Fail, % Effect (Test of Significant Toxicity)	Pass	Pass or % Effect < 50

[1] The median monthly effluent limitation (MMEL) shall be reported as "Pass" or "Fail". The maximum daily effluent limitation (MDEL) shall be reported as "Pass" or "Fail" and "% Effect". The MMEL for chronic toxicity shall only apply when there is a discharge more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in "Fail".

2. Similarly, based on the L.A. Regional Water Board's chosen statistical approach for interpreting toxicity and limiting WET, the following additions (italicized language) to

the permit's chronic toxicity compliance determination provision (Order section VII.I) are recommended:

The Maximum Daily Effluent Limitation (MDEL) for chronic toxicity is exceeded and a violation will be flagged when a chronic toxicity test, analyzed using the TST approach, results in "Fail" and the "Percent Effect" is ≥0.50.

"*MMET*" should be corrected to "*MMEL*".

Also, if the TST approach is used, using a 2-concentration test design for data analysis, we recommend the addition of new language to this section of the permit to clarify the transparent reporting of WET test monitoring results. The following italicized language would be appropriate to ensure that valid WET test monitoring results are not improperly reported, or otherwise rendered invalid for NPDES compliance reporting, by the Permittee:

The chronic toxicity MDEL and MMEL are set at the IWC for the discharge (100% effluent) and expressed in units of the TST approach ("Pass" or "Fail", "Percent Effect"). All NPDES effluent compliance monitoring for the chronic toxicity MDEL and MMEL shall be reported using only the 100% effluent concentration and negative control, expressed in units of the TST. The TST hypothesis (Ho) (see above) is not tested using a multi-concentration test design; therefore, the concentration-response relationship for the effluent and/or PMSDs are not reviewed or used to interpret the TST result reported as the effluent compliance monitoring result.

3. Under Order section VII, we recommend adding the following revision related to compliance determination for the required median monthly WQBEL for chronic WET. This language is in existing L.A. Regional Water Board NPDES permit requirements for chronic toxicity compliance determination:

   Median Monthly Effluent Limitation (MMEL)

   If the median of daily discharges over a calendar month exceeds the MMEL for a given parameter, an alleged violation will be flagged and the Permittee will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of noncompliance in a 31-day month). However, an alleged violation of the MMEL will be considered one violation for the purpose of assessing State mandatory minimum penalties. If no sample (daily discharge) is taken over a calendar month, no compliance determination can be made for that month with respect to effluent violation determination, but compliance determination can be made for that month with respect to reporting violation determination.

4. Based on the L.A. Regional Water Board's chosen statistical approach for interpreting toxicity and limiting WET, addition of the following italicized effluent monitoring language is recommended for addition to Monitoring and Reporting Program section IV.A.1, Table E-3a:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Chronic Toxicity	Pass or Fail, % *Effect (Test of Significant Toxicity)*	24-hour composite	Monthly[1]	[1]
[1] The Permittee shall conduct whole effluent toxicity monitoring as outlined in section V. Please refer to section V.A.7 for the accelerated monitoring schedule. The median monthly summary result shall be reported as "Pass" or "Fail". The maximum daily single result shall be reported as "Pass" or "Fail" and "% Effect". When there is a discharge more than one day in a calendar month period, exactly three independent toxicity tests are required when one toxicity test results in "Fail".				

5. Similarly, under Monitoring and Reporting Program section V.A.5.b, the following correction (italicized language) related to the chronic toxicity MMEL is recommended:

"*Median Monthly Effluent Trigger (MMET)*" should be corrected to "*Median Monthly Effluent Limit (MMEL)*".

6. Under Monitoring and Reporting Program section V.A.5.c, we are recommending the addition of new language (italicized) for chronic toxicity monitoring to explain reporting of WET test compliance monitoring results. This language clarifies that the only test acceptability criteria (TAC) used to invalidate a WET test result are the TAC in EPA's WET test methods:

If the effluent toxicity test does not meet all test acceptability criteria (TAC) specified in the referenced test method *(see Table x, below)*, then the Permittee must re-sample and re-test within 14 days.

Table x. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (U.S. EPA 2002, EPA-821-R-02-013).	
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Green Alga, Selenastrum capricornutum, Growth Toxicity Test Method 1003.0 (Table 3).	*Mean cell density of at least 1 X 10^6 cells/mL in the controls; and variability (CV%) among control replicates less than or equal to 20%. (required)*

7. To explain proper reporting for reference toxicant test results, we recommend adding the italicized language to the second sentence of Monitoring and Reporting Program section V.A.5.e:

   All reference toxicant test results should be reviewed and reported *using the EC25.*

8. To explain proper reporting of effluent toxicity tests conducted during periods of species sensitivity screening, we recommend that Monitoring and Reporting Program section V.A.4 be revised to include the following new final paragraph:

   During the calendar month, toxicity tests used to determine the most sensitive test species shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL and MMEL.

9. We recommend deleting Order section VI.C.2.a because it duplicates, but also in part conflicts with, portions of Monitoring and Reporting Program sections V.A.6 through V.A.8.

10. To explain proper reporting of effluent toxicity tests conducted during accelerated monitoring schedules, we recommend that the second paragraph under Monitoring and Reporting Program section V.A.7 be revised to include the following italicized language. This should help to ensure that valid WET test monitoring results are not improperly reported, or otherwise deemed invalid for NPDES compliance reporting, by the Permittee:

    Within 24 hours of the time the Permittee becomes aware of this result, the Permittee shall implement an accelerated monitoring schedule consisting of four, five-concentration toxicity tests (including the discharge IWC), conducted at approximately two week intervals, over an eight week period*; in preparation for the Toxicity Reduction Evaluation (TRE) process and associated reporting, these results shall also be reported using the EC25*. If each of the accelerated toxicity tests results in "Pass", the Permittee shall return to routine monitoring for the next monitoring period. If one of the accelerated toxicity tests results in "Fail", the Permittee shall immediately implement the TRE Process conditions set forth below. *During accelerated monitoring schedules, only TST results ("Pass" or "Fail", "Percent Effect") for chronic toxicity tests shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL and MMEL.*

11. To explain proper reporting of effluent toxicity tests conducted during a Toxicity Reduction Evaluation (TRE), we recommend that Monitoring and Reporting Program section V.A.8 be revised to include the following opening paragraph:

During the TRE Process, monthly effluent monitoring shall resume and TST results ("Pass" or "Fail", "Percent Effect") for chronic toxicity tests shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL and MMEL.

12. We recommend revising Order section V.A.19 and associated chronic toxicity receiving water monitoring provisions (in Monitoring and Reporting Program section VIII.A.1, Table E-4a) to be consistent with existing L.A. Regional Water Board NPDES permit requirements for chronic toxicity in the May 8, 2014 permits for Camarillo, Simi Valley, and Thousand Oaks water reclamation plants, and in permits not governed by WQO 2003-0012.

Draft KEY REGULATORY ISSUE SUMMARY
Updated SEPTEMBER 22, 2014

Action items for member agencies are in **bold**

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
PERMITS COMMITTEE			
SF BAY NUTRIENT WATERSHED PERMIT			
• The nutrient watershed permit was adopted on April 2014, with an effective date of July 1, 2014. Prior to adoption, BACWA representatives from each subembayments and the Regional Water Board had been meeting regularly since Fall 2013 to negotiate the details of this permit. • Elements of the watershed permit are: 1. Continued monitoring of nutrients in effluent and receiving water. 2. Robust reporting and tracking of effluent nutrient trends. 3. Funding for studies of possible impacts of nutrients on SF Bay. 4. An investigation of nutrient removal technology alternatives for POTWs.	• BACWA will fund compliance with the following provisions of the nutrient watershed permit on behalf of its members: o Annual reporting o Optimization and facilities upgrade studies o Support of scientific studies at $880K per year, to be conducted through the RMP • HDR team selected to lead the Optimization and Upgrade studies, and annual reporting. Contract approved September 2014. • The contract will be overseen by the contract management group, made up of representatives of member agencies.	• BACWA will host a Nutrient Symposium for its members on October 6, 2014, on Case Studies/Lessons Learned in Nutrient Management in watersheds nationwide. • The scoping and evaluation plans for the optimization/upgrade studies will be conducted during Fall 2014 • **BACWA will host a kickoff meeting for the optimization/upgrade studies in early 2015 for members to understand the process and what data they need to provide to the team**	Nutrient Watershed Permit: http://www.waterboards.ca.gov/sanfranciscobay/board_decisions/adopted_orders/2014/R2-2014-0014.pdf BACWA Nutrient page: http://bacwa.org/nutrients Presentations from 10/14 BACWA Nutrient Technology Symposium: http://bacwa.org/meetings/conferences-and-workshops HDR Scope of Work: http://bacwa.org/Portals/0/Nutrients/Scope%20of%20Work.pdf

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
NUTRIENTS IN SAN FRANCISCO BAY – SCIENCE			
• SF Bay has historically been resilient to nutrient impacts because of tidal mixing, clam grazing, and high turbidity. However, the turbidity is decreasing due to capture of sediment by upstream dams, and clam populations are on the decline. There is concern that SF Bay may become nutrient over-enriched in the future. • Ammonia discharged from POTWs has been suggested to be disrupting the food-web in Suisun Bay, and ultimately contributing to the decline of pelagic fish populations in the Bay-Delta estuary.	• Because of the complexity of the science behind nutrient impacts in the SF Bay, stakeholders in the region are participating in a steering committee to prioritize scientific studies and ensure that all science to be used for policy decisions is conducted under one umbrella. • The watershed permit specifies $880K/yr of funding from POTWs. In 2014, BACWA has provided $865 to SFEI through the RMP, and $15K to fund a steering committee facilitator. • Agencies are now conducting effluent monitoring under the watershed permit.	• Continue to participate in steering committee and provide funding for scientific studies. • BACWA, along with the RWB, BayKeeper and SFEI, is participating in a planning committee to provide direction for the steering committee and ensure that action items are carried out. • Participate in the Nutrient Technical Workgroup, which is a venue to provide technical input to the process, and is open to the public.	Nutrient Technical Workgroup page: http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/planningtmdls/amendments/estuarynne_ntw.shtml
SELENIUM – EPA CRITERIA AND SF BAY TMDLs			
• EPA is developing ambient water concentration criteria for the SF Bay/Delta based on a previously developed fish tissue objective. EPA has been sued by an NGO for taking too long to release CTR criteria, and are currently in settlement negotiations. While the EPA was planning on releasing the criteria this year, this has been put on hold indefinitely pending the outcome of the lawsuit. • The RWB has taken over the development of a selenium objective, with EPA engagement. The methodology developed will be applied in both the North Bay and South Bay TMDL processes.	• EPA has a draft recommended freshwater selenium criterion which would apply to the Sacramento and San Joaquin rivers. This could be problematic for the Bay, since it the criterion is higher than the likely objective for the North Bay, which receives water from upstream freshwater rivers. • The Bay Delta Conservation Plan's (BDCP) EIR acknowledged that the Delta tunnels could increase selenium concentrations in the San Francisco Bay. It then put the burden on the North Bay TMDL process to mitigate these increased concentrations. BACWA provided comments stating that this was not an acceptable strategy.	• Continue to engage with the RWB on the development of water quality objectives for selenium in the Bay. • Track and comment on initiatives by outside entities such as the BDCP whose activities could impact selenium in the San Francisco Bay.	Regional Water Board Presentation on Selenium TMDL: https://bacwa.box.com/s/xwyof61mvjas8r5e0rc7 EPA Freshwater Selenium Criterion: http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/planningtmdls/amendments/estuarynne_ntw.shtml BDCP Public ReviewPage: http://baydeltaconservationplan.com/PublicReview.aspx

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
ELECTRONIC REPORTING			
• EPA has issued a NPR that would make all federal and state reporting electronic for NPDES permitees. • State Board has completed eSMR 2.5, which will allows for electronic submittal of EPA required self-monitoring data through an extension to CIWQS.	• Errors are often propagated when the data are made public, and they are also often presented out of context (e.g. presenting exceedences as violations) and are difficult to correct. • BACWA worked with Tri-TAC on a December 2013 comment letter on the federal rule. • CIWQS received Federal certification through the Cross-Media Electronic Reporting Rule (CROMERR) in July 2014, so California dischargers should be able to submit electronic discharge monitoring reports by the federal deadline. However, there is still a question over how other information that is not yet collected by CIWQS, such as pretreatment and biosolids, will be submitted.	• **Dischargers must begin reporting electronically to the State through eSMR 2.5 on October 1, 2014.** • Track State Water Board's efforts to develop a reporting tool for biosolids and pretreatment by the time EPA requires electronic reporting in 2016. • Wait for EPA's response to the comments submitted to their NPR.	EPA Fact Sheet on NPR: http://www2.epa.gov/sites/production/files/2013-08/documents/npdes-electronic-reporting-rule-factsheet.pdf State Water Board's page on eSMR2.5 http://www.swrcb.ca.gov/ciwqs/esmr25.shtml CROMERR Certification: http://www.gpo.gov/fdsys/pkg/FR-2014-07-02/pdf/2014-15547.pdf
MERCURY/PCB WATERSHED PERMIT			
• Mercury/PCB Watershed Permit adopted on 12/12/12 with 1/1/13 effective date. • Aggregate PCB and mercury loads for 2013 were well below wasteload allocations. • Method 1668c for PCB congeners has still not been promulgated by EPA. Data collected during the first permit term varied widely depending on which laboratory did the analyses.	• The permit requires continued requirement of risk reduction program funding and annual reporting of effort (BACWA submits letter). This has been an ongoing challenge, since there is no regional risk reduction effort to fund at the present time. • BACWA Laboratory Committee developed an updated PCB Protocol to reduce variability between laboratories running Method 1668C, effective January 1, 2014.	• BACWA is working with partners in the public health and regulatory community to develop work plan for risk reduction during the current permit term.	2013 Mercury/PCB Watershed Permit: http://www.waterboards.ca.gov/sanfranciscobay/board_decisions/adopted_orders/2012/R2-2012-0096.pdf Updated PCBs Protocol: https://bacwa.box.com/s/bws7iil34xradh5xdyc7

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
STATE WATER BOARD TOXICITY PLAN			
• Draft State Toxicity Policy issued in June 2012 would establish/require: o numeric limits for chronic toxicity; o use of Test of Significant Toxicity (TST) as statistical method to determine toxicity replacing EC25/IC25 (with concerns it will lead to more false positive results); o Regional Water Board discretion on inclusion of acute toxicity in permits and whether to allow for dilution. • State Water Board released a Fact Sheet in 2013 outlining proposed revisions, and invited stakeholders to weigh in on the proposed updates.	• Next draft of policy expected in Fall 2014 or later. • BACWA submitted a comment letter to the State Water Board outlining our response to the Fact Sheet and proposing language to reduce monitoring requirements. • BACWA representatives have met with Regional Water Board Staff to discuss the Region 2 implementation of acute toxicity testing and instream waste concentrations. • On September 4, 2014, EPA issued a formal objection to draft permits that Region 4 was developing for two of Los Angeles County Sanitation Districts' facilities (Whittier Narrow and Pomona). They required immediate introduction of toxicity limits, rather than triggers, and made recommendations on how these limits would be implemented. Many of their recommendations ran counter to recommendations POTWs had made to the State Water Board for implementing the State Toxicity Plan.	• BACWA will comment on the next draft of the Toxicity Plan once it is released. • Key issues to discuss with the State Water Board continue to be the enforceable limits, monitoring frequency, reasonable potential analysis methodology, and instream waste concentration. • Work with CASA to investigate how EPA's objection will impact our member agencies. Consider supporting a LACSD challenge to their permits.	State Board Page: http://www.swrcb.ca.gov/water_issues/programs/state_implementation_policy/tx_ass_cntrl.shtml Fact Sheet: https://bacwa.box.com/s/m7dcmzeugfwylwsusl74 BACWA Comment Letter: https://bacwa.box.com/s/bws7iil34xradh5xdyc7 EPA Formal Objection to Region 4 permits: https://bacwa.box.com/s/9iq0fx6b5htygq7d8dzd

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
COMPOUNDS OF EMERGING CONCERN			
• Pharmaceuticals and other trace compounds of emerging concern (CECs) are ubiquitous in wastewater at low concentrations and have unknown effects on aquatic organisms. • The State Board, along with Southern California Coastal Water Research Project (SCCWRP), has been working with an Ecosystems Advisory Panel and Stakeholder Advisory Group to develop a monitoring program for the State. • Region 2's CEC strategy focuses on monitoring/tracking concentrations of constituents with high occurrence and high potential toxicity and source control. Much of what the SWRCB CEC Panel recommended are already being implemented in Region 2 through the RMP.	• Pulse of the Bay 2013 focused on CECs. The San Francisco Bay CEC strategy will expand to include some degree of POTW effluent monitoring. • Studies are ongoing to test the use of bioanalytical assays. • BACWA has provided RMP with a list of volunteer POTWs to have their effluent monitored for CECs by the RMP. This monitoring would be for informational and not for compliance purposes.	• **Continue to participate in the RMP CEC Workgroup and solicit volunteers for future studies.** • Continue to engage in State CEC Panel on implementation through the designated POTW representative, Phil Friess. BACWA's aim is that collaboration in any future monitoring study will be fulfilled though participation in existing RMP programs.	Statewide Monitoring Prioritization page: http://www.sccwrp.org/ResearchAreas/Contaminants/StatewideCECPrioritization.aspx Regional Monitoring Program CEC Workgroup: http://www.sfei.org/rmp/ecwg Pulse of the Bay 2013: http://www.sfei.org/sites/default/files/Pulse%202013%20CECs.pdf
CONTINUOUS CHLORINE MONITORING			
• Chlorine residual is the most frequent parameter for violations for Region 2 POTWs, however, because there are 24 hourly reporting events each day, the "opportunities" for violations are enormous and the actual violation rates are infinitesimal (~0.001%). • BACWA has worked with the Regional Water Board in the past on ways to ensure that violations reflect events that pose an actual water quality concern, rather than just being a momentary blip on a continuous monitoring device.	• The Regional Water Board negotiated acceptable language with Sunnyvale and San Jose-Santa Clara for their 2014 permits. Permittees must report top-of-the-hour maxima to CIWQS, as well as any other on-hour data that exceed the limit. In their monthly SMR cover letter they must report any exceedances between hourly readings.	• In the future, BACWA may want to participate in the development of a regional or statewide policy to address continuous chlorine monitoring. However, since this isn't a pressing issue, it has been put on the back burner.	

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
BACTERIAL OBJECTIVES			
• The State Water Board is proposing amendments to the Statewide Water Quality Control Plan for Inland Surface Waters, Enclosed Bays and Estuaries and the Ocean Plan to include updated water quality objectives for bacteria for the of water contact recreation beneficial use (REC 1) in fresh and marine waters. The proposed amendments will likely include a revised indicator organism and more stringent risk protection level. • BACWA representatives met with State Board Staff on July 14, 2014 to give input into proposed features of the bacterial objectives.	• The State Water Board is considering limited use designations to allow less stringent objectives where/when contact recreation does not occur. • They may include language encouraging Regional Water Boards to use mixing zones in developing effluent limits. This would help offset the lower enterococcus limits that are proposed, since Region 2 currently applies the receiving water limitations as end-of pipe-limits. • BACWA urged the State Water Board to harmonize their policy with the Department of Public Health's rules on indicator organisms. However, this is unlikely since it would require legislative changes to DPH's rules.	• Comment on the draft objectives when they are released, which is expected in winter 2014/15	State Water Board Issue Summary: https://bacwa.box.com/s/6joxce5fppfdaq0w30w4
COLLECTION SYSTEMS COMMITTEE			
SSS WDR MRP			
• The MRP for the SSS WDRs were recently revised by the State Water Board and became effective 9/9/13.	• **Agencies should update their SSMPs to reflect the changes.** • BACWA is participating a Statewide data review committee to provide guidance for developing SSMPs	• Continue to work with State Water Board as it develops future updates to the SSS WDR MRP.	Revised MRP: http://www.swrcb.ca.gov/board_decisions/adopted_orders/water_quality/2013/wqo2013_0058exec.pdf Presentation on changes: http://bacwa.org/Portals/0/Committees/CollectionSystems/Library/2013%20BACWA%20CSC%20Revised%20MRP%209-12-13A.pdf

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
RECYCLED WATER COMMITTEE			
RECYCLED WATER GENERAL ORDER			
• The State Water Board adopted a General Order on June 3, 2014 to streamline permitting for recycled water, in response to the Governor's 1/17/14, proclamation of a Drought State of Emergency. • The State General Order, as adopted, is more onerous than Region 2's General Order for water reuse, 96-011.	• BACWA provided a comment letter, stating that Region 2 entities would like to continue to use 96-011 for new and existing permits. • The General Order allows existing permittees and projects to remain under existing permits, but new projects must get coverage under the State General Order.	• Work with our agencies to see how coverage under the new State General Order impacts their new recycled water projects.	State Recycled Water General Order: http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2014/wqo2014_0090_dwq_revised.pdf
BAPPG			
PESTICIDES			
• Most pesticides, including pyrethroids, are currently unregulated in wastewater other than by narrative toxicity standards. Some pyrethroids are toxic to sensitive organisms at extremely low concentrations. • In the future, POTWs could be regulated for pyrethroids, which they cannot control. Engagement at this stage could steer regulators to adopt strategies favoring source control.	• POTWs from across the State, including several BACWA agencies, recently worked with pyrethroid manufacturers and DPR on a statewide survey of pyrethroids in POTW influent, effluent, and biosolids. Results of the study showed that pyrethroids are ubiquitous in effluent and biosolids throughout the state, often at concentrations above UC Davis-developed toxicity thresholds. The report was released in January 2014. • BAPPG has been active in commenting on product registration at the EPA level, and to California DPR to urge regulators to consider the pathway to the sewer when registering products. • BACWA provided comments on the revised State Vector Control General Order which allows pesticide applications directly to surface waters with no subsequent monitoring.	• P2 groups will continue to work with EPA, DPR and pesticide manufacturers to prevent pyrethroids from being used in a manner where they are discharged to the sewer.	Pesticides Working Group Report: https://bacwa.box.com/s/jxhrd2lte3o1aquy7abf Vector Control General Order: http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2014/wqo2014_0106_dwq_redline.pdf

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
AIR COMMITTEE			
BAAQMD'S GREENHOUSE GAS ACTION PLAN			
• In November 2013, the Bay Area Air Quality Management District (BAAQMD) adopted a climate protection goal to reduce regional GHG emissions by 80 percent below 1990 levels by 2050. The goal is part of a 10-point Climate Action Work Program (Climate Program). The BAAQMD's GHG goal matches the State's 2050 GHG target set by executive order S-3-05.	• When the AIR committee met with BAAQMD staff in winter 2014, they were unaware of other regulatory drivers such as nutrient control that may impact POTWs' ability to meet climate goals. BACWA sent a letter BAAQMD to explain some of the cross-media issues our members are grappling with.	• Continue to engage with BAAQMD staff to help them understand the issues that our members are balancing.	BAAQMD Climate Protection Page: http://www.baaqmd.gov/Divisions/Planning-and-Research/Climate-Protection-Program.aspx BACWA letter on cross-media issues: http://bacwa.org/Portals/0/Users/142/42/142/BACWA_Cross-Media%20Letter.pdf
Note: AIR Committee 2014 annual newsletter is available at: http://bacwa.org/Portals/0/Committees/AirIssuesRegulations/Library/BACWA%20AIR%202014%20Newsletter%20Final.pdf			

"Parking lot" issues with no updates can be found in the January 2014 issues summary and January 2013 issues summary.

ACRONYMS

AIR Committee	Air Issues and Regulations Committee
BAAQMD	Bay Area Air Quality Management District
BAPPG	Bay Area Pollution Prevention Group
CASA	California Association of Sanitation Agencies
CECs	Compounds of Emerging Concern
CIWQS	California Integrated Water Quality System
CTR	California Toxics Rule
DPR	Department of Pesticide Regulation
EPA	United States Environmental Protection Agency
eSMR	Electronic Self Monitoring Report
GHG	Greenhouse Gas
MRP	Monitoring and Reporting Program
NPR	Notice of Proposed Rulemaking
P2	Pollution Prevention
PCB	Polychlorinated Biphenyl
POTW	Publically Owned Treatment Works
RMP	Regional Monitoring Program
SCCWRP	Southern California Coastal Water Research Project
SF Bay	San Francisco Bay
SFEI	San Francisco Estuary Institute
SSMP	Sewer System Management Plan
SSO	Sanitary Sewer Overflow
SSS	Sanitary Sewer System
WDR	Waste Discharge Requirements
TMDL	Total Maximum Daily Load
TST	Test of Significant Toxicity

DRAFT

TOPICS FOR DISCUSSION AT THE ANNUAL TECHNICAL SEMINAR

October 21 – 23, 2014

EBMUD Pardee Facility

Tuesday, October 21st (noon – 5:00 pm)

Financial

1. Review of financial position and revenue needs for coming years
2. Dues/CBC/Nutrient Surcharge modifications
3. Outside fund raising for wastewater initiatives

Board/Committee/Membership

4. Review of overall committee structure, effectiveness and value to the membership
5. Options for incorporating Air as a BACWA Committee
6. Options for expansion of Board
7. Review of other programs administered by BACWA

Communications

8. Options for web site improvement
9. Options for better membership engagement

Wednesday October 22nd (8:30 to 5:00)

Nutrients

1. Technical
    a. Progress on WS studies and technical issues
    b. Update on scientific studies in progress
    c. Update on Science Plan
    d. Debrief on Symposium
2. Regulatory
    a. Scoping and Evaluation Plans

    b. Update on permit monitoring efforts
    c. Strategies for the next 5 year permit
    d. Statewide Nutrient Objectives
3. Governance
    a. Executive Committee
    b. Program Coordination

<u>Other Regulatory Issues</u>

1. Risk Management
2. Selenium
3. Toxicity Plan
4. CEC monitoring

Welcome WB

Thursday October 23rd (8:00 to 3:00)

<u>Coordination with WB</u>

1. Review progress on Optimization/Upgrade Studies
2. Regulatory impacts of scientific findings to date
3. Discussion of insights gained from Symposium
4. Discuss “no net loading” and next 5 yr permit
5. Governance issues going forward
6. Discussion of POTW 20 year plans
7. Other Technical regulatory issues

Annual Members' Meeting

Thursday, January 30, 2014
Boy Scouts Facility
1001 Davis St., San Leandro, CA

8:30 a.m. – 9:00 a.m. **Coffee and Refreshments**

9:00 a.m. – 9:15 a.m. **Welcome**
– Introduction and Year in Review
Mike Connor, BACWA Executive Board Chair

9:15 a.m. – 9:45 a.m. **EPA & RWQCB Priorities**
Moderator – *Laura Pagano, BACWA Executive Board Vice-Chair*
David Smith, Manager, NPDES Permits Office, US EPA Region 9
Bruce Wolfe, Executive Officer, SF Bay Water Board

9:45 a.m. – 10:00 a.m. **Nutrients - Overview**
David Williams, BACWA Executive Director

10:00 a.m. – 10:25 a.m. **Nutrients - Regulatory Update**
Moderator – *Curt Swanson, BACWA Executive Board Member, CCCSD*
– Watershed Permit
Lila Tang, SF Bay Water Board
– Next Steps
Naomi Feger, SF Bay Water Board

10:25 a.m. – 10:35 a.m. **BREAK**

10:35 a.m. – 11:40 a.m. **Nutrients - Technical Update**
David Senn, San Francisco Estuary Institute

11:40 a.m. – 12:00 p.m. **Nutrients – Q & A**

12:00 p.m. – 12:20 p.m. **BACWA Business Meeting**
– Budgeting for Regulatory Efforts
– Committee Support and Restructuring
David Williams, BACWA Executive Director

12:20 p.m. – 12:50 p.m. **LUNCH** *(will be provided)*

12:50 p.m. – 1:00 p.m. **2013 Arleen Navarret Award Presentation**
Rosey Jencks, SFPUC, 2011 Arleen Navarret Award Recipient

1:00 p.m. – 1:40 p.m. **Committee Updates**
Moderator – *James Ervin, BACWA Executive Board Member, City of San Jose*

– Bay Area Pollution Prevention Group
Karri Ving, Committee Chair

– Biosolids Committee
Matt Krupp, Committee Chair

– Collection Systems Committee
Dan Stevenson, Committee Chair

– Permits and Pretreatment Committees
Tim Potter, Committee Chair

1:40 p.m. – 2:00 p.m. **AIR Regulatory Update**
Sara Deslauriers, California Wastewater Climate Change Group Program Manager

Jim Sandoval, AIR Committee Consultant

2:00 p.m. – 2:15 p.m. **SWRCB Update**
Steven Moore, California Water Resources Control Board

2:15 p.m. – 2:30 p.m. **BACWA's Collaboration and Role in Regional Initiatives**
Laura Pagano, BACWA Executive Board Vice Chair

2:30 p.m. – 2:45 p.m. **Other Water Quality Regulatory Updates**
Lorien Fono, BACWA Regulatory Program Manager

2:45 p.m. – 3:05 p.m. **Utility of the Future**
Moderator – *Mike Connor, BACWA Executive Board Chair*

– Water Recycling
Cheryl Munoz and Linda Hu, Recycled Water Committee Co-Chairs

– Resource Recovery / Energy Conservation
Ben Horenstein, BACWA Executive Board Member, EBMUD
Gary Darling, Delta Diablo Sanitation District

3:05 p.m. – 3:10 p.m. **Wrap up**