

**NORTH BAY WATER REUSE AUTHORITY
TECHNICAL ADVISORY COMMITTEE**

Wednesday, February 19, 2014

Agenda

Novato Sanitary District, 500 Davidson Street, Novato, CA 94945
Conference call number is available for consultants not attending meeting
1-866-906-7447, passcode 2428170#

9:00 a.m.

	1.		Call to Order and Self Introductions
Page 1	2.	Action	Approval of Agenda
	3.		Public Comments
Pages 2 – 4	4.	Action	Consent Items a. January 27, 2014 TAC Meeting Minutes
Page 5 Pages 6 – 12 Page 13	5.	Information	Report from the Program Manager a. Consultant Progress Reports – January 2014 b. Action Items from January 27, 2014 Meetings
Page 14	6.	Information	Financial Report a. Consultant Cost Tracking through January 31, 2014
Pages 15 – 32	7.	Action and Discussion	Proposed Budgets for FY14/15, FY15/16, and FY16/17, Phase 2 Participation, and Phase 2 Projects List
	8.	Information	Program Development – Federal Advocacy Update
Pages 33 – 41	9.	Information	State Advocacy Update
	10.	Information	Outreach Program Report
	11.	Information	Status of WaterSMART Grants and Applications
Page 42	12.	Information	Proposition 84 – Integrated Regional Water Management Program Update and Status
	13.	Information	EIR/EIS Issues Update
	14.	Information	Items from Committee, Agency Staff, or Consultants
	15.	Information	Items for Next Agenda (March 17, 2014 at Novato City Hall. Possible conflict with WaterReuse Conference. Consider changing date.)

The North Bay Water Reuse Authority complies with ADA requirements and will attempt to reasonably accommodate individuals with disabilities upon request. Please contact **Chuck Weir at 510-410-5923** with any questions.

**North Bay Water Reuse Authority
Technical Advisory Committee
Minutes
January 27, 2014**

1. Call to Order and Self Introductions

Vice-Chair Healy called the Technical Advisory Committee (TAC) meeting to order at 11:35 a.m. on Monday, January 27, 2014. The meeting was held at Novato City Hall Council Chambers, 901 Sherman Avenue, Novato, CA 94945.

Committee Members Present

Tim Healy, Vice Chair	Napa Sanitation District
Mike Cortez	Las Gallinas Valley Sanitary District
Pam Jeane	Sonoma Valley County Water District
Sandeep Karkal	Novato Sanitary District
Drew McIntyre	North Marin Water District
Phillip Miller,	County of Napa
Dan St. John	City of Petaluma
Paul Sellier	Marin Municipal Water District
Renee Webber	Sonoma County Water Agency

Others Present

Chuck Weir, Program Manager	Weir Technical Services
Kevin Booker	Sonoma County Water Agency
Ginger Bryant	Bryant & Associates
Megan Clark	Las Gallinas Valley Sanitary District
Grant Davis	Sonoma County Water Agency
Barry Dugan	Data Instincts
Andria Loutsch	CDM Smith
Mark Millan	Data Instincts
Pilar Oñate-Quintana	The Oñate Group
Michael Savage	Brown & Caldwell
Jake Spaulding	Sonoma County Water Agency
Jeff Tucker	Napa Sanitation District
Leah Walker	City of Petaluma

2. Approval of the Agenda

The Agenda was unanimously approved as presented.

3. Public Comments

There were no public comments.

4. Consent Items**4.a December 16, 2013 TAC Meeting Minutes**

The minutes were unanimously approved with one minor correction.

5. Report from the Program Manager

The Report from the Program Manager included the following items:

5.a Action Items from the December 16, 2013 Meetings

The TAC reviewed the list of action items and noted that all items are on track

6. Summarize Board Meeting and List Action Items

The primary action item is for all agencies to determine their participation in Phase 2 and finalize their list of projects for budget purposes by March 3, 2014.

7. Proposed Budgets for FY14/15, FY15/16, and FY16/17

The TAC discussed the proposed budgets and the impact on Phase 2 Feasibility Study costs if the total project cost is changed or if one or more agencies do not participate. As an action item the TAC agreed to notify everyone as soon as possible if they are participating in Phase 2 and changes to their project costs as soon as possible. The Program Manager will send revised budgets to everyone within 24 hours of receipt of changes to project costs. The TAC also discussed possible cost sharing methods for Joint Use costs based on the discussion at the Board meeting. Number of ratepayers was suggested at the Board meeting, but that does not really apply to possible benefit. The Program Manager suggested making the cost sharing similar to Phase 1 by splitting 25% of the cost equally and the remaining 75% on the basis of total Phase 1 and Phase 2 project costs. As an action item, the Program Manager will send a revised budget to the TAC using this method for their review. The Program Manager will also provide information on the cost per million dollars if the total project cost is reduced to \$180 million. As an action item, Andria Loutsch will send out the most current list of projects and their estimated costs. It was also noted that the current list of projects totaling \$206,700,000 will remain in the Scoping Study Report. It was understood that the total may change for budget purposes only.

8. Bay Area Integrated Regional Water Management Plan (BAIRWMP) Integrated Regional Water Management Implementation Grant Program Request for Regional Concept Submittals

The TAC discussed how to submit proposals for Round 3 funding. Following discussion and as an action item, the TAC agreed to use remaining funds in Phase 1 in CDM Smith's agreement to provide assistance with proposals for BAIRWMP Round 3. Agencies not participating in Phase 1 may need to contract directly with CDM Smith in order to participate.

9. Items from Committee, Agency Staff, or Consultants

There was a question regarding federal funding for storage projects. Ginger Bryant indicated that 50% funding is still under consideration.

10. Items for the Next Agenda

Items for the February 19, 2014 TAC Agenda include:

- a. Revised FY14/15, FY15/16, and FY16/17 Budget and cost allocations
- b. Discussion of Phase 2 participation and project costs

Action items from this meeting included the following:

- a. Member Agencies to notify everyone as soon as possible if they are participating in Phase 2 and changes to their project costs as soon as possible. The Program Manager will send revised budgets to everyone within 24 hours of receipt of changes to project costs.
- b. The Program Manager will send a revised budget to the TAC using the 25% equal shares and 75% based on total Phase 1 and 2 project costs for joint use costs for their review.
- c. Andria Loutsch will send out the most current list of projects and their estimated costs.
- d. TAC agreed to use remaining funds in Phase 1 in CDM Smith's agreement to provide assistance with proposals for BAIRWMP Round 3. Agencies not participating in Phase 1 may need to contract directly with CDM Smith in order to participate.

Vice-Chair Healy adjourned the meeting at 12:25 p.m.

NEXT MEETING INFORMATION: Next meeting will be at Novato Sanitation District on Wednesday, February 19, 2014.

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ITEM NO. 5 REPORT FROM THE PROGRAM MANAGER

The Report from the Program Manager includes the following items:

5.a Consultant Progress Reports

Consultant Progress Reports for January 2014 are attached for the TAC's information.

5.b Action Items from January 27, 2014 Meetings

The list of Action Items is attached for the TAC's information. All items are completed or in progress.

In an effort to save paper, brief summaries of other agenda items are described below:

6. Financial Report

The Consultant cost tracking for the period ending January 31, 2014 is attached for the TAC's review. All items are tracking within budget.

7. Proposed Budgets for FY14/15, FY15/16, and FY16/17, Phase 2 Participation, and Phase 2 Projects List

Please refer to the separate report for this item.

8. Program Development – Federal Advocacy Update

Ginger Bryant will provide an update for the TAC.

9. State Advocacy Update

Pilar Onate-Quintana will provide an update for the TAC. Please refer to the items in the packet.

10. Outreach Program Report

Mark Millan or Barry Dugan, Data Instincts, will provide an update.

11. Status of WaterSMART Grants and Applications

Participant will provide updates.

12. Proposition 84 – Integrated Regional Water Management Program Update and Status

Please refer to the attachment for this item. Participants will also provide updates.

13. EIR/EIS Issues Update

Jim O'Toole, ESA, can provide updates.

Program Management Services
 Weir Technical Services
 NBWRA Phase 1 and Phase 2
 Sonoma County Water Agency Order Number 7630A5 and Account Number 391029

Progress Report

January 2014

Task 2.1 Board of Directors and Technical Advisory Committee (TAC) Meeting Management

- Coordinated and participated in consultant conference call for January 27, 2014 Board and TAC meetings.
- Participated in consultant conference call in preparation for Workshop #6.
- Reviewed news articles from outreach consultant.
- Reviewed consultant progress reports.
- Prepared and distributed Board and TAC January 27, 2014 Agenda packets.
- Attended January 27, 2014 Board and TAC meetings in Novato.
- Drafted January 27, 2014 Board and TAC meeting minutes and Action Item List and revised based on comments received.
- Finalized issues related to meeting scheduling. Sent emails to City of Novato and Novato Sanitary District to request holding dates for meetings in 2014, 2015, and 2016. Completed reservation forms for City of Novato and forwarded permits to Agency and TAC Chair. Sent Outlook appointments for 2014 Board and TAC meetings.
- Participated in Water Bond Coalition conference call on January 28, 2014. Reviewed summary of meeting.
-

Task 2.2 Budget Preparation and Reporting

- Updated FY2013/14 consultant cost summary for December 2013.
- Reviewed Agency financial spreadsheets and included in Board Agenda packet.
- Revised budget costs for Program Development and Federal Advocacy based on percent splits for Phase 1 and Phase 2 provided by consultant.
- Coordinated revised consultant scopes and costs for Phase 2.
- Revised FY14/15, FY15/16, and FY16/17 Budget and cost allocations and sent to TAC to assist in discussions with their Boards. Revised same based on revised Phase 2 project costs for Board and TAC agenda packets.
- Updated Workshop #6 PowerPoint slides with current budget data. Revised slides based on updated project costs.
- Drafted notes on Phase 2 costs for Board meeting.
- Revised Budget and cost allocations showing 25%/75% split for Joint Use Services and sent to TAC with updated notes on costs.
- Began initial research on Phase 1 Feasibility Study costs in collaboration with Agency.

Task 2.3 Project Support and Review

- No work was conducted on this task during the period.

Task 2.4 Program Planning

- Prepared January 2014 Progress Report and invoice. Updated expenses and cost tracking

Task 2.5 Governance Issues

- No work was conducted on this task during the period.

Task 2.6 Additional Tasks (Optional)

- No work was conducted on this task during the period.



North Bay Water Reuse Program - Program Development Services January 2014 Activity Summary

Activity Summary

- Participated in contract management call with Renee Webber
- Participated in monthly consultant call with Renee Webber and TFG
- Participated in monthly consulting team call
- Prepared PowerPoint presentation for and attended Board and TAC meetings
- Briefed Supervisors and TAC Chair in preparation for Board meeting
- Met with Data Instincts to discuss revisions for DC handouts in 2014
- Discussed Phase 2 Feasibility Studies with USBR MP and Denver staff
- Sent memo to TAC on the status of Feasibility Studies and the 2014 Omnibus Appropriations bill
- Revised and submitted budget table for Program Development and Advocacy agreement per direction from TAC
- Coordinated with Mike Savage on production of DISCUSSION DRAFT of Feasibility Study and submitted to Reclamation for consideration
- Activities in coordination with The Ferguson Group
 - Coordinated with Renee Webber, Roger Gwinn, Mark Limbaugh on monthly consultant call
 - Drafted letter for Sup Rabbitt to send to Sen Feinstein regarding using part of the 2014 Title XVI funds for regional-scale Feasibility Studies
 - Distributed the DRAFT RIFIA language and accompanying white paper to the Board and TAC
 - Continued outreach to other western water groups in support of RIFIA
 - Coordinated on DC meeting schedule and materials for February trip

The Ferguson Group Activity Summary (Informational Purposes for TAC)

- Coordinated with Ginger Bryant and Renee Webber on monthly consultant call
- Started February trip planning and continued discussions with Congressional Offices in support of RIFIA
- Distributed the DRAFT RIFIA language and accompanying white paper to western water groups seeking support in their legislative agendas

North Bay Water Reuse Authority
Professional Services by CDM Smith

January 2014 Progress Report

Phase 1 Support

- Prepared final FY 2014 WaterSMART grant application.
- Submitted final application to SCWA on January 2, 2014.
- Reviewed Bay Area IRWMP Prop 84 Round 3 regional project submittal requirements.
- Prepared program manager report; participated in consultant conference call.
- Project management activities.

Phase 2 Scoping Study

- Held conference call with Novato SD and Marin County staff to discuss status of joint projects.
- Communicated with member agencies on project changes and costs.
- Based on input from member agencies, revised project costs and water balance operations.
- Project management activities.
- Continued to develop and revise Scoping Study Report sections.
- Held project teams conference calls to plan for Workshop 6.
- Prepared for and facilitated Workshop 6.

Federal Grant Reporting Support

- No activity this month.

The Oñate Group

NBWRA Monthly Report – January 2014

This monthly report is provided on behalf of the The Oñate Group and reflects significant activities conducted on behalf of NBWRA during January 2014:

- Worked to pursue a February 5 "NBWRA day" in Sacramento. (unfortunately, due to legislative caucus meetings that date had to be rescheduled – new target date is March 12)
- Monitored ACWA and WateReuse discussions re: the water bond debate. Coordinated with WateReuse in assisting in advancing their position.
- Attended January 2014 Board meeting and provided verbal report. Followed that report up with a written e-mail report (text of that email copied below).
- Assisted in urging inclusion of WateReuse's funding language in the ACWA bond "mock up."

Text of January 30, 2014 follow-up e-mail:

Hello -

As promised during my state report on Monday, I am forwarding the text of the current in-print versions of the bond measures that have been introduced in the Legislature to date.

In addition to the two measures I described at the board meeting, now a third bill has entered the mix (SB 927 as attached above). This is a Senate Republican proposal that essentially retains most of the language of the current text of the existing 2014 bond, but makes a few smaller funding deletions and also deletes the existing chapter to fund ecosystem and watershed purposes, taking the \$11 billion bond to roughly \$9.2 billion.

From a recycled water standpoint, there are more extensive details involved here, but in general the current bond proposals stack up as follows:

- All of the bonds fund the IRWM program, which would fund future opportunities (for not only recycled water but other water management tools, of course) via the regionally-developed IRWM process.
- The Rendon measure, AB 1331 currently breaks out a sub pot of \$500 million for recycled water-focused purposes.
- The Wolk measure, AB 848, makes specific note of recycled water storage (among many other types of storage) in its version of a storage chapter.

- The Republican measure, SB 927, effectively retains the original 2009/current 2014 bond language which includes about a billion dollars for recycled water and a few other purposes, but largely recycled water focused.

In terms of current scheduling, the Wolk measure is set for hearing on February 11, while neither AB 1331 nor the new SB 972 have been set yet.

In general, as mentioned, we continue to work with WaterReuse in advancing their position and recycled water funding language.

Finally, as additional promised follow up to my presentation, please find the Natural Resources chapter of the Governor's proposed budget. As a matter of general interest in the water world, this chapter includes a description of and substantial reference to the "State Water Action Plan."

As always, please do not hesitate to call or email with any questions re: the information as included above and attached.

Thank you.

Pilar

<http://www.ebudget.ca.gov/2014-15/pdf/BudgetSummary/NaturalResources.pdf>

Public Outreach Services for North Bay Water Reuse Authority
Data Instincts
SCWA Order Number 7534A4, Account Number 391029

Progress Report

January 2014

- Phone calls with project team members for collaboration on preparation of upcoming TAC & Board Workshop and Meetings.
- Attended January 27th TAC and Board meetings
- Updating and maintaining relevant program content and news articles on the site.
- Working with Ginger Bryant to update outreach materials for upcoming NBWRA D.C. Trips Feb 11-13 and 25-28, 2014.

NBWRA Board and TAC Short-Term Action Item List

Meeting Date: January 27, 2014

Task	Responsible Party	Due Date	Status	Completion Date
Member Agencies to notify everyone as soon as possible if they are participating in Phase 2 and changes to their project costs as soon as possible. The Program Manager will send revised budgets to everyone within 24 hours of receipt of changes to project costs.	TAC	ASAP with deadline of March 3, 2014	Final decisions due March 3, 2014 for budget development purposes.	1/22/2014
Send a revised budget to the TAC using the 25% equal shares and 75% based on total Phase 1 and 2 project costs for joint use costs for their review.	Weir	1/29/2014	Completed	1/29/2014
Send out the most current list of projects and their estimated costs.	Loutsch	1/28/2014	Completed	1/28/2014
Draft Budgets for FY2014/15, FY2015/16, and FY2016/17	TAC and Weir	3/3/2014	To be discussed by TAC at February 19, 2014 meeting. Final Budget and cost allocations to be considered by TAC at March 17, 2014 meeting and then included in April 21, 2014 Board packet for approval.	
Use remaining funds in Phase 1 in CDM Smith's agreement to provide assistance with proposals for BAIRWMP Round 3. Agencies not participating in Phase 1 may need to contract directly with CDM Smith in order to participate.	Booker, CDM Smith, and TAC	3/31/2014	Information submitted to BACWA on February 10, 2014.	
Submit application for 2014/15 WaterSMART Phase 2 Feasibility Study	B&C, Bryant, SCWA, TAC	1/7/2014	Process revised based on USBR recommendations. Bryant provided update on January 27, 2014	
SOQ/RFP/Agreement Process	SCWA	4/1/2014	Draft agreements with scopes and costs for Engineering, Environmental, and Outreach Services; Legislative Development Services, and Program Management into SCWA queue for approval.	
SCWA to amend CDM Smith agreement for Phase 2 Scoping Study for an additional \$5,000 from approved contingency fund.	Booker	1/31/2014	In process	
Notify Ginger Bryant of attendance at February/March 2014 D.C. meeting.	TAC	12/16/2013	Ongoing	
Share notices regarding conference presentations and award programs with the TAC.	All	Ongoing		

NBWRA FY2013/14 Consultant Cost Tracking

February 13, 2014

Phase 1 Support

Month	Weir	Bryant	TFG	CDM Smith	ESA	Oñate	Data Insts.	SCWA	Total
July-13	-	-	-	-	-	-	-	-	-
August-13	-	-	-	-	-	-	-	-	-
September-13	-	-	-	2,295.95	1,492.50	-	-	-	3,788.45
October-13	-	-	-	1,359.20	1,088.75	-	-	-	2,447.95
November-13	-	-	-	4,825.98	-	-	-	-	4,825.98
December-13	-	-	-	8,088.25	498.75	-	-	-	8,587.00
January-14	-	-	-	3,490.17	-	-	-	-	3,490.17
February-14	-	-	-	-	-	-	-	-	-
March-14	-	-	-	-	-	-	-	-	-
April-14	-	-	-	-	-	-	-	-	-
May-14	-	-	-	-	-	-	-	-	-
June-14	-	-	-	-	-	-	-	-	-
Total	-	-	-	20,059.55	3,080.00	-	-	-	23,139.55
FY13/14 Budget	-	-	-	55,000.00	10,000.00	-	-	-	65,000.00
Amt Remaining	-	-	-	34,940.45	6,920.00	-	-	-	41,860.45
% Remaining	#N/A	#N/A	#N/A	63.53%	69.20%	#N/A	#N/A	#N/A	64.40%

Note: There is a contingency of \$5,000 for Phase 1 support that has been allocated to CDM Smith.

Phase 2 Support, 18-Month Scoping Study and Workshops

Month	Weir	Bryant	TFG	CDM / B&C	ESA	Oñate	Data Insts.	SCWA	Total
July-13	-	-	1,500.00	10,166.83	-	-	-	-	11,666.83
August-13	-	-	1,500.00	54,933.67	-	-	-	-	56,433.67
September-13	-	-	1,500.00	27,854.47	-	-	-	-	29,354.47
October-13	-	-	1,500.00	42,919.48	-	-	-	-	44,419.48
November-13	-	-	1,500.00	26,549.38	-	-	-	-	28,049.38
December-13	-	-	1,500.00	14,181.29	-	-	-	-	15,681.29
January-14	-	-	1,500.00	18,373.08	-	-	-	2,066.34	21,939.42
February-14	-	-	-	-	-	-	-	-	-
March-14	-	-	-	-	-	-	-	-	-
April-14	-	-	-	-	-	-	-	-	-
May-14	-	-	-	-	-	-	-	-	-
June-14	-	-	-	-	-	-	-	-	-
Total	-	-	10,500.00	364,714.40	-	-	-	2,066.34	377,280.74
FY12/13 & FY13/14	-	-	18,000.00	412,560.00	-	-	-	40,000.00	470,560.00
Amt Remaining	-	-	7,500.00	47,845.60	-	-	-	37,933.66	93,279.26
% Remaining	#N/A	#N/A	41.67%	11.60%	#N/A	#N/A	#N/A	94.83%	#N/A

Note: Totals include expenses from FY2012/13 since the Scoping Study covers two fiscal years.

Note: December 16, 2013 TAC approved adding \$5,000 from approved contingency fund to CDM Smith agreement.

Joint Use

Month	Weir	Bryant	TFG	CDM Smith	ESA	Oñate	Data Insts.	SCWA	Total
July-13	7,118.13	14,833.33	5,000.00	-	-	2,500.00	4,169.11	3,795.71	37,416.28
August-13	6,413.22	14,833.33	5,000.00	-	-	2,500.00	6,808.90	29,282.12	64,837.57
September-13	2,333.95	14,833.33	5,000.00	-	-	2,500.00	6,212.50	10,106.79	40,986.57
October-13	6,421.66	14,833.33	5,000.00	-	-	2,500.00	5,109.24	16,508.10	50,372.33
November-13	4,246.16	14,833.33	5,000.00	-	-	2,500.00	9,962.05	23,576.60	60,118.14
December-13	5,294.13	14,833.33	5,000.00	-	-	2,500.00	2,556.59	10,782.46	40,966.51
January-14	8,618.58	14,833.33	5,000.00	-	-	2,500.00	3,317.50	17,559.11	51,828.52
February-14	-	-	-	-	-	-	-	-	-
March-14	-	-	-	-	-	-	-	-	-
April-14	-	-	-	-	-	-	-	-	-
May-14	-	-	-	-	-	-	-	-	-
June-14	-	-	-	-	-	-	-	-	-
Total	40,445.83	103,833.31	35,000.00	-	-	17,500.00	38,135.89	111,610.89	346,525.92
FY13/14 Budget	78,000.00	178,000.00	65,000.00	10,000.00	-	30,000.00	50,000.00	150,000.00	561,000.00
Amt Remaining	37,554.17	74,166.69	30,000.00	10,000.00	-	12,500.00	11,864.11	38,389.11	214,474.08
% Remaining	48.15%	41.67%	46.15%	#N/A	#N/A	41.67%	23.73%	25.59%	38.23%

Note: There is a contingency of \$25,000 for Joint Use that is currently unallocated.

Phase 1, 2, and Joint Use Total

Month	Weir	Bryant	TFG	CDM / B&C	ESA	Oñate	Data Insts.	SCWA	Total
July-13	7,118.13	14,833.33	6,500.00	10,166.83	-	2,500.00	4,169.11	3,795.71	49,083.11
August-13	6,413.22	14,833.33	6,500.00	54,933.67	-	2,500.00	6,808.90	29,282.12	121,271.24
September-13	2,333.95	14,833.33	6,500.00	30,150.42	1,492.50	2,500.00	6,212.50	10,106.79	74,129.49
October-13	6,421.66	14,833.33	6,500.00	44,278.68	1,088.75	2,500.00	5,109.24	16,508.10	97,239.76
November-13	4,246.16	14,833.33	6,500.00	31,375.36	-	2,500.00	9,962.05	23,576.60	92,993.50
December-13	5,294.13	14,833.33	6,500.00	22,269.54	498.75	2,500.00	2,556.59	10,782.46	65,234.80
January-14	8,618.58	14,833.33	6,500.00	21,863.25	-	2,500.00	3,317.50	19,625.45	77,258.11
February-14	-	-	-	-	-	-	-	-	-
March-14	-	-	-	-	-	-	-	-	-
April-14	-	-	-	-	-	-	-	-	-
May-14	-	-	-	-	-	-	-	-	-
June-14	-	-	-	-	-	-	-	-	-
Total	40,445.83	103,833.31	45,500.00	215,037.75	3,080.00	17,500.00	38,135.89	113,677.23	577,210.01
FY13/14 Budget	78,000	178,000	83,000	477,560	10,000	30,000	50,000	190,000	1,096,560
Amt Remaining	37,554	74,167	37,500	262,522	6,920	12,500	11,864	76,323	519,350
% Remaining	48.15%	41.67%	45.18%	54.97%	69.20%	41.67%	23.73%	40.17%	47.36%

Notes:

1. Values for the most current month may be estimates.
2. Phase 2 Scoping Study and Workshop costs approved by Board on November 19, 2012.
3. Phase 2 Scoping Study and Workshops are for 18-month period, January 1, 2013 - June 30, 2014.
4. FY2013/14 Budget approved by Board on March 25, 2013.

ITEM NO. 7 PROPOSED BUDGETS FOR FY14/15, FY15/16, AND FY16/17, PHASE 2 PARTICIPATION, AND PHASE 2 PROJECTS LIST

Action Requested: The following items will require action at this meeting or in early March 2014 in order to have a final three-year budget and consultant scopes and costs for the TAC to recommend for approval by the Board at the March 17, 2014 TAC meeting:

1. Member Agencies decide on their participation in Phase 2 by March 3, 2014.
2. Member Agencies finalize their list of Phase 2 Projects for budget planning purposes by March 3, 2014.
3. TAC agreement on cost sharing methodology for the three Fiscal Year Budget.

At the January 27, 2014 TAC meeting there was discussion regarding the final list of Phase 2 Projects to be included in the Phase 2 Feasibility Study and to be used to budget cost allocations. Following the meeting Andria Loutsch, CDM Smith, sent an email to the TAC along with an attachment detailing the list of Phase 2 projects and their estimated costs. The email and attachment are included in this report as **Item No. 7.a**. The current list of Phase 2 projects is estimated at \$206,700,000 as compared with \$100,000,000 for Phase 1.

At the January meeting TAC members expressed concern over the cost of the Phase 2 Feasibility Study, which is \$4,291,074, with 50% of that total eligible for federal reimbursement. The Program Manager asked Water Agency staff to look through the financial records to determine the Phase 1 Feasibility Study cost for comparison purposes. That cost was \$3,297,188 of which 47.8%, \$1,577,414 was reimbursed by the U.S. Bureau of Reclamation. This information was summarized in an email from the Program Manager to the TAC, which is included in this report at **Item No. 7.b**.

The TAC also discussed at the January meeting the allocation of Joint Use costs based on a request from Las Gallinas Valley Sanitary District. The Program Manager developed a cost sharing based on the concepts in the Memorandum of Understanding (MOU) for Phase 1 costs sharing. A revised three fiscal year budget was prepared using a new Joint Use cost calculation that split 25% equally among all member agencies and 75% split on the basis of total Phase 1 and Phase 2 Project costs. That revised budget was sent as a spreadsheet to the TAC to allow them to try different scenarios for projects and cost sharing. As of this writing only one comment has been received. That revised budget is included in this report as **Item No. 7.c**. Included in this item are the following:

1. Proposed Three-Year Budget for FY14/15, FY15/16, and FY16/17.
2. Member Agency costs for FY14/15.
3. Member Agency costs for FY15/16
4. Member Agency costs for FY16/17

5. Total Member Agency costs for the three Fiscal Years.
6. Feasibility Study Percent Calculations based on Phase 2 Project costs.
7. Joint Use Percent Calculations based on the 25% / 75% method described above.

This presentation of the budget includes Phase 2 Feasibility Study costs sharing on the basis of each agency's percent of the total Phase 2 Projects. Also included in this presentation is splitting of Program Development and Federal Lobbying between Phase 1 and Phase 2 support. Both methods were previously recommended by the TAC.

Also included for the TAC's information are the following items:

1. **Item No. 7.d** – Total Member Agency costs for the three Fiscal Years with Joint Use costs shared equally by all member agencies.
2. **Item No. 7.e** - Total Member Agency costs for the three Fiscal Years with the Phase 2 Feasibility Study costs shared on the basis of the 25% / 75% method used for sharing costs for Phase 1. This item has not previously been discussed by the TAC, but it is an option worth considering and would be consistent with the MOU. Also included is a summary of the percentages for each agency using this method as well as a revised cost per million dollars of project costs. Using this method, agencies with a greater value of projects benefit somewhat in terms of cost sharing.

Recommendation

No specific recommendation is provided at this time. As noted above the following items will require action at this meeting or in early March 2014 in order to have a final three-year budget and consultant scopes and costs for the TAC to recommend at the March 17, 2014 meeting for approval by the Board at the April 21, 2014 meeting:

1. Member Agencies decide on their participation in Phase 2 by March 3, 2014.
2. Member Agencies finalize their list of Phase 2 Projects for budget planning purposes by March 3, 2014.
3. TAC agreement on cost sharing methodology for the three Fiscal Year Budget.

Chuck Weir

From: Loutsch, Andria <LoutschAR@cdmsmith.com>
Sent: Monday, January 27, 2014 6:33 PM
To: psellier@marinwater.org; Mark Williams (mwilliams@lgsd.org); Drew McIntyre (dmcintyre@nmwd.com); Beverly James (bevj@novatosan.com); Dan St. John (dstjohn@ci.petaluma.ca.us); Renee Webber (Renee.Webber@scwa.ca.gov); Pam Jeane (Pam.Jeane@scwa.ca.gov); Healy, Tim (THEALY@napasan.com); Phillip Miller (phillip.miller@countyofnapa.org)
Cc: Mike Cortez (mcortez@lgsd.org); Susan McGuire (SMcGuire@lgsd.org); Sandeep Karikal (sandeepk@novatosan.com); Walker, Leah; Iribarne, David; Kevin Booker (Kevin.Booker@scwa.ca.gov); Jeff Tucker (jtucker@napasan.com); Chuck Weir (chuckweir@sbcglobal.net); Mike Savage (msavage@brwnald.com); Ginger Bryant (vsbryant@sbcglobal.net); Brick, William; 'Lewis, Liz'
Subject: NBWRA Phase 2 Program - Estimated Costs
Attachments: NBWRA Phase 2 Program Cost Estimate 2014-01-22.pdf

Hello, all.

As requested at today's TAC meeting, attached are several spreadsheets that provide details on the estimated costs for the NBWRA Phase 2 program. Here is the evolution of costs between the December TAC meeting and today's workshop:

- The first sheet shows the program cost at the start of the December 16 TAC meeting (\$318 million) and the slimmed down list of projects at the end of the TAC meeting (\$200 million, with some project costs estimated at the meeting for purposes of trimming the list at the time).
- Between the TAC meeting and today's workshop, there were additional clarifications to projects for SVCSD and Petaluma. The total appraisal-level cost estimate is now \$206.7 million.
- The second sheet shows the summary of costs for each project and subtotal by Agency.
- The third sheet provides the construction cost estimate details for each project – lengths of pipe, treatment capacity, assumptions, etc.

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

- Andria

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**Andria R. Loutsch, AICP**

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**NBWRA Phase 2 Program Costs**  
**Working Spreadsheet from December 16, 2013 TAC Meeting**

**12/13/13 Estimate**

**Developed at 12/16/13 TAC meeting**

| Agency                          | Projects                                | Opinion of Probable Total Project Cap. Costs | Summary by Agency |
|---------------------------------|-----------------------------------------|----------------------------------------------|-------------------|
| MMWD                            | Peacock Gap Main Pipeline Extension     | \$ 7,950,000                                 | \$ 20,110,000     |
|                                 | Peacock Gap Area Infill                 | \$ 4,730,000                                 |                   |
|                                 | San Quentin State Prison                | \$ 2,840,000                                 |                   |
|                                 | Mt. Tamalpais Cemetery                  | \$ 2,840,000                                 |                   |
|                                 | Lucas Pipeline Extension                | \$ 1,750,000                                 |                   |
| LGVSD                           | Tertiary Treatment Upgrades             | \$ 4,380,000                                 | \$ 21,570,000     |
|                                 | Secondary Storage/Flood Protection      | \$ 2,030,000                                 |                   |
|                                 | Terra Linda Storm Water Capture         | \$ 940,000                                   |                   |
|                                 | Existing Storage Pond Repair/Upgrade    | \$ 6,710,000                                 |                   |
|                                 | McInnis Marsh                           | \$ 7,510,000                                 |                   |
| Novato SD                       | 248-Acre Storage Wetland                | \$ 15,100,000                                | \$ 35,540,000     |
|                                 | WWTP Capacity Upgrade                   | \$ 15,800,000                                |                   |
|                                 | Tidal Prism and Habitat Restoration     | \$ 4,640,000                                 |                   |
| Petaluma                        | WWTP Capacity Upgrade                   | \$ 6,230,000                                 | \$ 82,930,000     |
|                                 | Conversion of Oxidation Ponds           | \$ 6,410,000                                 |                   |
|                                 | Phase II East Expansion                 | \$ 5,250,000                                 |                   |
|                                 | Phase III West Expansion                | \$ 11,380,000                                |                   |
|                                 | Lakeville Ag Distribution               | \$ 20,150,000                                |                   |
|                                 | Agricultural Properties Storage         | \$ 13,630,000                                |                   |
|                                 | Northeast Storage Tank                  | \$ 10,390,000                                |                   |
|                                 | Eastside Storage Pond                   | \$ 9,490,000                                 |                   |
| SVCSD                           | Sonoma Valley Pipelines                 | \$ 16,840,000                                | \$ 31,040,000     |
|                                 | Sonoma Valley Storage Pond              | \$ 8,900,000                                 |                   |
|                                 | SV South Recycled Water Project         | \$ 5,300,000                                 |                   |
| SCWA                            | Groundwater Banking/ASR Storage         | \$ 14,080,000                                | \$ 25,890,000     |
|                                 | Stormwater Recharge: Sonoma Valley      | \$ 6,750,000                                 |                   |
|                                 | Stormwater Recharge: Petaluma River     | \$ 5,060,000                                 |                   |
| Napa SD                         | MST Tulocay Pipeline                    | \$ 1,990,000                                 | \$ 101,490,000    |
|                                 | Increase Filter Capacity                | \$ 1,880,000                                 |                   |
|                                 | Long Term (Ph 2 Related) WWTP Expansion | \$ 4,380,000                                 |                   |
|                                 | Additional WWTP Covered Storage         | \$ 2,500,000                                 |                   |
|                                 | Napa State Hospital Storage Tank        | \$ 2,600,000                                 |                   |
|                                 | Raising WWTP Oxidation Pond Levees      | \$ 40,500,000                                |                   |
|                                 | Jameson Ranch Storage Pond              | \$ 16,810,000                                |                   |
|                                 | Somky Ranch Storage Pond                | \$ 12,540,000                                |                   |
| Groundwater Banking/ASR Storage | \$ 18,290,000                           |                                              |                   |
| Total                           |                                         | \$ 318,570,000                               |                   |

| Opinion of Probable Total Project Cap. Costs | Summary by Agency |
|----------------------------------------------|-------------------|
| \$ 7,950,000                                 | \$ 12,680,000     |
| \$ 4,730,000                                 |                   |
|                                              |                   |
|                                              |                   |
|                                              |                   |
| \$ 4,380,000                                 | \$ 21,570,000     |
| \$ 2,030,000                                 |                   |
| \$ 940,000                                   |                   |
| \$ 6,710,000                                 |                   |
| \$ 7,510,000                                 |                   |
| \$ 15,100,000                                | \$ 35,540,000     |
| \$ 15,800,000                                |                   |
| \$ 4,640,000                                 |                   |
| \$ 6,230,000                                 | \$ 47,530,000     |
| \$ 6,410,000                                 |                   |
| \$ 5,250,000                                 |                   |
|                                              |                   |
| \$ 20,150,000                                |                   |
|                                              |                   |
|                                              |                   |
| \$ 9,490,000                                 |                   |
| \$ 11,226,666.67                             | \$ 11,226,667     |
|                                              |                   |
|                                              |                   |
| \$ 14,080,000                                | \$ 25,890,000     |
| \$ 6,750,000                                 |                   |
| \$ 5,060,000                                 |                   |
| \$ 1,990,000                                 | \$ 46,370,000     |
| \$ 1,880,000                                 |                   |
|                                              |                   |
| \$ 2,500,000                                 |                   |
|                                              |                   |
|                                              |                   |
| \$ 40,000,000                                |                   |
|                                              |                   |
| \$ 200,810,000                               |                   |

**NBWRA - Summary of Proposed Phase 2 Projects**  
**Total Estimated Capital Costs<sup>1</sup> as of January 22, 2014**

| Agency    | Projects                                   | Distribution Pipelines | Pump Stations | Storage       | WWTP Treatment Upgrades | Lump Sum or Other Construction Cost | Total Construction Contract Costs | USBR Allowance/Contingencies (35%) <sup>2</sup> | Opinion of Probable Const. Costs | USBR Non-Contract Costs (25%) <sup>3</sup> | Opinion of Probable Total Project Capital Costs | Summary by Agency |
|-----------|--------------------------------------------|------------------------|---------------|---------------|-------------------------|-------------------------------------|-----------------------------------|-------------------------------------------------|----------------------------------|--------------------------------------------|-------------------------------------------------|-------------------|
| MMWD      | Peacock Gap Main Pipeline Extension        | \$ 4,709,991           | \$ -          | \$ -          | \$ -                    | \$ -                                | \$ 4,709,991                      | \$ 1,650,000                                    | \$ 6,360,000                     | \$ 1,590,000                               | \$ 7,950,000                                    | \$ 12,680,000     |
|           | Peacock Gap Area Infill                    | \$ 2,800,000           | \$ -          | \$ -          | \$ -                    | \$ -                                | \$ 2,800,000                      | \$ 980,000                                      | \$ 3,780,000                     | \$ 950,000                                 | \$ 4,730,000                                    |                   |
| LGVSD     | Tertiary Treatment Upgrades                | \$ -                   | \$ -          | \$ -          | \$ 2,592,592            | \$ -                                | \$ 2,592,592                      | \$ 910,000                                      | \$ 3,500,000                     | \$ 880,000                                 | \$ 4,380,000                                    | \$ 21,570,000     |
|           | Secondary Storage/Flood Protection         | \$ -                   | \$ -          | \$ 86,988     | \$ -                    | \$ 1,111,111                        | \$ 1,198,099                      | \$ 420,000                                      | \$ 1,620,000                     | \$ 410,000                                 | \$ 2,030,000                                    |                   |
|           | Terra Linda Runoff Capture                 | \$ -                   | \$ -          | \$ -          | \$ -                    | \$ 555,556                          | \$ 555,556                        | \$ 190,000                                      | \$ 750,000                       | \$ 190,000                                 | \$ 940,000                                      |                   |
|           | Existing Storage Pond Repair/Upgrade       | \$ -                   | \$ 1,000,000  | \$ 2,976,750  | \$ -                    | \$ -                                | \$ 3,976,750                      | \$ 1,390,000                                    | \$ 5,370,000                     | \$ 1,340,000                               | \$ 6,710,000                                    |                   |
|           | McInnis Marsh                              | \$ -                   | \$ -          | \$ -          | \$ -                    | \$ 4,450,000                        | \$ 4,450,000                      | \$ 1,560,000                                    | \$ 6,010,000                     | \$ 1,500,000                               | \$ 7,510,000                                    |                   |
| Novato SD | Storage Wetland                            | \$ 2,200,000           | \$ -          | \$ 6,750,160  | \$ -                    | \$ -                                | \$ 8,950,160                      | \$ 3,130,000                                    | \$ 12,080,000                    | \$ 3,020,000                               | \$ 15,100,000                                   | \$ 35,540,000     |
|           | WWTP Capacity Upgrade                      | \$ -                   | \$ -          | \$ -          | \$ 9,360,000            | \$ -                                | \$ 9,360,000                      | \$ 3,280,000                                    | \$ 12,640,000                    | \$ 3,160,000                               | \$ 15,800,000                                   |                   |
|           | Tidal Prism and Habitat Restoration        | \$ 1,479,752           | \$ 1,273,831  | \$ -          | \$ -                    | \$ -                                | \$ 2,753,582                      | \$ 960,000                                      | \$ 3,710,000                     | \$ 930,000                                 | \$ 4,640,000                                    |                   |
| Petaluma  | WWTP Capacity Increase                     | \$ -                   | \$ -          | \$ -          | \$ 3,690,000            | \$ -                                | \$ 3,690,000                      | \$ 1,290,000                                    | \$ 4,980,000                     | \$ 1,250,000                               | \$ 6,230,000                                    | \$ 58,940,000     |
|           | Urban Recycled Water Expansion             | \$ 9,348,261           | \$ -          | \$ -          | \$ -                    | \$ -                                | \$ 9,348,261                      | \$ 3,270,000                                    | \$ 12,620,000                    | \$ 3,160,000                               | \$ 15,780,000                                   |                   |
|           | Agriculture Recycled Water Expansion       | \$ 12,794,373          | \$ 1,000,000  | \$ 2,462,000  | \$ -                    | \$ -                                | \$ 16,256,373                     | \$ 5,690,000                                    | \$ 21,950,000                    | \$ 5,490,000                               | \$ 27,440,000                                   |                   |
|           | Additional Onsite Storage                  | \$ -                   | \$ -          | \$ 5,622,461  | \$ -                    | \$ -                                | \$ 5,622,461                      | \$ 1,970,000                                    | \$ 7,590,000                     | \$ 1,900,000                               | \$ 9,490,000                                    |                   |
| SVCSD     | Sonoma Valley Pipelines                    | \$ 3,094,002           | \$ -          | \$ -          | \$ -                    | \$ -                                | \$ 3,094,002                      | \$ 1,080,000                                    | \$ 4,170,000                     | \$ 1,040,000                               | \$ 5,210,000                                    | \$ 5,210,000      |
| SCWA      | Groundwater Banking/ASR                    | \$ 840,000             | \$ -          | \$ -          | \$ -                    | \$ 7,500,000                        | \$ 8,340,000                      | \$ 2,920,000                                    | \$ 11,260,000                    | \$ 2,820,000                               | \$ 14,080,000                                   | \$ 25,890,000     |
|           | Groundwater Mgt & Recharge: Sonoma Valley  | \$ -                   | \$ -          | \$ -          | \$ -                    | \$ 4,000,000                        | \$ 4,000,000                      | \$ 1,400,000                                    | \$ 5,400,000                     | \$ 1,350,000                               | \$ 6,750,000                                    |                   |
|           | Groundwater Mgt & Recharge: Petaluma River | \$ -                   | \$ -          | \$ -          | \$ -                    | \$ 3,000,000                        | \$ 3,000,000                      | \$ 1,050,000                                    | \$ 4,050,000                     | \$ 1,010,000                               | \$ 5,060,000                                    |                   |
| Napa SD   | MST Tulocay Pipeline                       | \$ 1,180,000           | \$ -          | \$ -          | \$ -                    | \$ -                                | \$ 1,180,000                      | \$ 410,000                                      | \$ 1,590,000                     | \$ 400,000                                 | \$ 1,990,000                                    | \$ 46,870,000     |
|           | Increase Filter Capacity                   | \$ -                   | \$ -          | \$ -          | \$ 1,110,000            | \$ -                                | \$ 1,110,000                      | \$ 390,000                                      | \$ 1,500,000                     | \$ 380,000                                 | \$ 1,880,000                                    |                   |
|           | Additional WWTP Covered Storage            | \$ -                   | \$ -          | \$ 1,481,480  | \$ -                    | \$ -                                | \$ 1,481,480                      | \$ 520,000                                      | \$ 2,000,000                     | \$ 500,000                                 | \$ 2,500,000                                    |                   |
|           | New Seasonal Storage                       | \$ -                   | \$ -          | \$ 24,000,000 | \$ -                    | \$ -                                | \$ 24,000,000                     | \$ 8,400,000                                    | \$ 32,400,000                    | \$ 8,100,000                               | \$ 40,500,000                                   |                   |
| Total     |                                            | \$ 38,450,000          | \$ 3,280,000  | \$ 43,380,000 | \$ 16,760,000           | \$ 20,620,000                       | \$ 122,470,000                    | \$ 42,860,000                                   | \$ 165,330,000                   | \$ 41,370,000                              | \$ 206,700,000                                  |                   |

Notes:

- 1: Based on Phase 1 Costing Methods Updated to ENR CCI = 10,388.34 [September 2013]
- 2: USBR Allowance/Contingencies (35%) includes:
  - Allowance for Unlisted Items accounts for additional work that may be identified during additional design phases of the Project (15%),
  - Contingencies are considered as funds to be used after construction starts to pay contractors for overruns on quantities, changes site conditions, change orders, etc. (20%)
- 3: Non-Contract Cost (25%) includes:
  - Preliminary and final design engineering, preparation of construction plans and specifications (11%),
  - Construction services including construction management, construction inspection, engineering support during construction, construction surveying, start-up services, and as-built drawings (13%),
  - Project administration, legal support (1%)

NBWRA - Proposed Phase 2 Projects

Proposed Phase 2 Projects Estimated Construction Contract Costs as of January 22, 2014

| MMWD                              | Peacock Gap Main Pipeline Extension               | Diam (in)           | Length (ft) | \$/in-ft                                | Constructability <sup>1</sup> | Total         | Comments                                                                                                                                                                                                                                                               |
|-----------------------------------|---------------------------------------------------|---------------------|-------------|-----------------------------------------|-------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | pipelines                                         | 12                  | 25,530      | 11.39                                   | 1.35                          | \$4,709,991   | Length from MMWD memo emailed by Michael Ban on March 16, 2012.                                                                                                                                                                                                        |
|                                   | Peacock Gap Area Infill                           |                     |             | Unit Cost                               |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | pipelines                                         |                     |             | Lump Sum                                |                               | \$2,800,000   | Capital costs of \$3.5M provided in email from Michael Ban on March 16, 2012, assumed to have 25% contingency. This value includes 2,500 feet of 6" pipe (\$230,611).                                                                                                  |
| LGVSD                             | Tertiary Treatment Upgrades                       | Volume (MGD)        |             | Unit Price (\$/MGD Increase)            |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | tertiary treatment plant upgrade 2018/2019        | 1.3                 |             | \$284,900                               |                               | \$370,370     | Estimated based on construction costs of LGVSD recently completed tertiary membrane & UV packages and amount of work required to increase existing total tertiary capacity from 1.4 MGD to 5.4 MGD. Costs designated by agency per Mark Williams, October 9, 2013.     |
|                                   | tertiary treatment plant upgrades 2019/2020       | 0.4                 |             | \$3,174,603                             |                               | \$1,111,111   |                                                                                                                                                                                                                                                                        |
|                                   | tertiary treatment plant upgrades 2022/2023       | 2.4                 |             | \$472,813                               |                               | \$1,111,111   |                                                                                                                                                                                                                                                                        |
|                                   | Secondary Storage/Flood Protection                | Length (LF)         |             | Unit Price (\$/LF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | flood protection levee for storage pond           | 2,000               |             | \$556                                   |                               | \$1,111,111   | Levee measured along West, North, and East sides of Treatment Plant only. MG effluent equalization storage pond. Agency cost estimate of \$1.5 Million.                                                                                                                |
|                                   | storage pond                                      | Volume (AF)         |             | Unit Price (\$/AF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   | 3.3                 |             | \$26,360                                |                               | \$86,988      |                                                                                                                                                                                                                                                                        |
|                                   | Terra Linda Runoff Capture                        |                     |             | Unit Cost                               |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   |                     |             | Lump Sum                                |                               | \$555,556     | Assumes approximately 100 LF concrete channel improvements, diversion structures, 24" piping connections to existing sewer within 300 ft. Agency estimated cost of \$750,000                                                                                           |
|                                   | Existing Storage Pond Repair/Upgrade              | Length (LF)         |             | Unit Price (\$/LF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | levee repair                                      | 10,935              |             | \$250                                   |                               | \$2,733,750   | Repair of levees assumed to be 1/4 cost of new levees, no piping needed. Agency Cost of \$5 Million.                                                                                                                                                                   |
|                                   | grading and excavation                            | Volume (AF of Soil) |             | Unit Price (\$/AF of Soil)              |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   | 90                  |             | \$2,700                                 |                               | \$243,000     | Assumes average 1.5 ft excavation.                                                                                                                                                                                                                                     |
|                                   | upgrade of pumping and piping structures          |                     |             | Unit Cost                               |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   |                     |             | Lump Sum                                |                               | \$1,000,000   |                                                                                                                                                                                                                                                                        |
|                                   | McInnis Marsh                                     |                     |             | Unit Cost                               |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | habitat restoration                               |                     |             | Lump Sum                                |                               | \$4,450,000   | 1,650 ft river channel; road improvement; 1,500 ft Eco-tone slope; 3,500 ft of channel to move water to eastern edge. Agency Cost Estimate of \$6 Million.                                                                                                             |
| Novato SD                         | Storage Wetland                                   | Length (LF)         |             | Unit Price (\$/LF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | levee                                             | 5,800               |             | \$1,000                                 |                               | \$5,800,000   | Construction of new 15-ft tall levee. Estimated 3,000 AF storage capacity total.                                                                                                                                                                                       |
|                                   | levee                                             | 1,750               |             | \$200                                   |                               | \$350,000     | Repairs to existing levee, raising approx 2 ft. Estimated 3,000 AF storage capacity total.                                                                                                                                                                             |
|                                   | repair/replace existing outfall pipeline          |                     |             | Unit Cost                               |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   |                     |             | Lump Sum                                |                               | \$2,000,000   | Discussion with Beverly James 3/9/2012                                                                                                                                                                                                                                 |
|                                   | additional connection pipeline construction costs |                     |             | Unit Cost                               |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   |                     |             | Lump Sum                                |                               | \$200,000     | Assumes a 100 ft pipe, appurtenances, and a control structure                                                                                                                                                                                                          |
|                                   | grading                                           | Area (Acres)        |             | Unit Price (\$/Acre)                    |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   | 248                 |             | \$2,420                                 |                               | \$600,160     | Rough site grading and mounding for habitat islands. Developed from RS Means fine grading estimates.                                                                                                                                                                   |
|                                   | WWTP Capacity Upgrade                             | Capacity (MGD)      |             | Unit Price (\$/MGD Increase)            |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | treatment <sup>2</sup>                            | 3.3                 |             | \$2,837,000                             |                               | \$9,360,000   |                                                                                                                                                                                                                                                                        |
|                                   | Tidal Prism and Habitat Restoration               | Diam (in)           | Length (ft) | \$/in-ft                                | Constructability <sup>1</sup> | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | pipeline                                          | 18                  | 5,500       | 13.00                                   | 1.15                          | \$1,479,752   | Open cut 5,500 ft of 18-in pipe to irrigation.                                                                                                                                                                                                                         |
|                                   | pump station                                      |                     |             | Formula = \$22,372 x HP <sup>0.69</sup> |                               | \$1,273,831   | Pump station with single 350 HP pump.                                                                                                                                                                                                                                  |
| Petaluma                          | WWTP Capacity Increase                            | Capacity (MGD)      |             | Unit Price (\$/MGD Increase)            |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | treatment <sup>2</sup>                            | 2.6                 |             | \$1,418,500                             |                               | \$3,690,000   | Current Capacity of 2 UV Treatment channels totaling 5.2 mgd. Plant has a 3rd UV Channel rated at 2.6 mgd, this would be the next size increase. Conversation per Matt Pierce 10/10/2013. Unit Price is estimated at half due to existing treatment equipment in place |
|                                   | Urban Recycled Water Expansion                    | Diam (in)           | Length (ft) | \$/in-ft                                | Constructability <sup>1</sup> | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | pipelines                                         | 6                   | 16,941      | 11.39                                   | 1.15                          | \$1,331,197   | Lengths and sizes taken from Petaluma Master Plan. All of Area C and portions of Area A and E comprise of lengths measured per David Iribarne's Recycled Water Map (Email sent Jan 21, 2014)                                                                           |
|                                   | pipelines                                         | 8                   | 1,533       | 11.39                                   | 1.15                          | \$160,614     |                                                                                                                                                                                                                                                                        |
|                                   | pipelines                                         | 10                  | 9,362       | 11.39                                   | 1.15                          | \$1,226,086   |                                                                                                                                                                                                                                                                        |
|                                   | pipelines                                         | 12                  | 14,041      | 11.39                                   | 1.15                          | \$2,206,640   |                                                                                                                                                                                                                                                                        |
|                                   | pipelines                                         | 20                  | 14,255      | 13.49                                   | 1.15                          | \$4,423,724   |                                                                                                                                                                                                                                                                        |
|                                   | Agriculture Recycled Water Expansion              | Diam (in)           | Length (ft) | \$/in-ft                                | Constructability <sup>1</sup> | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | pipelines                                         | 6                   | 4,975       | 11.39                                   | 1.15                          | \$390,928     | Lengths taken from Petaluma Master Plan. Sizes estimated, except for 20" pipeline for majority of project, per David Iribarne's email of 1/21/14.                                                                                                                      |
|                                   | pipelines                                         | 20                  | 34,362      | 13.49                                   | 1.15                          | \$10,663,487  |                                                                                                                                                                                                                                                                        |
|                                   | pipelines                                         | 24                  | 4,316       | 14.61                                   | 1.15                          | \$1,739,959   |                                                                                                                                                                                                                                                                        |
|                                   | storage reservoirs                                | Volume (MG)         |             | Unit Price (\$/LF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   | 2                   |             | \$1,231,000                             |                               | \$2,462,000   |                                                                                                                                                                                                                                                                        |
|                                   | upgrade of pumping and piping structures          |                     |             | Unit Cost                               |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   |                     |             | Lump Sum                                |                               | \$1,000,000   |                                                                                                                                                                                                                                                                        |
|                                   | Additional Onsite Storage                         |                     |             |                                         |                               |               | Two options recognized by agency for storage. Eastside Pond cost is reflected in Project Totals.                                                                                                                                                                       |
|                                   | Eastside Storage Pond                             | Length (LF)         |             | Unit Price (\$/LF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | storage levee                                     | 11,050              |             | \$509                                   |                               | \$5,622,461   | Perimeter of outlined area measured using Google Earth.                                                                                                                                                                                                                |
|                                   | Conversion of Oxidation Ponds                     | Length (LF)         |             | Unit Price (\$/LF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | storage                                           | 11,500              |             | \$330                                   |                               | \$3,795,000   | Assume raising levee around entire perimeter and costs 1/3 that of new levee.                                                                                                                                                                                          |
| SVCS                              | Sonoma Valley Pipelines                           | Diam (in)           | Length (ft) | \$/in-ft                                | Constructability <sup>1</sup> | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | West area pipelines (400-550 AFY)                 | 14                  | 13,337      | 11.88                                   | 1.15                          | \$2,551,654   | Lengths measured from aerial mapping through Google Earth. West Side Pipeline represents distribution to the Temeclec Area, Long Term Irrigation for the Carriager and Felder Creek Area, and Irrigation near Rodgers Creek. Pipe size designated by Kevin Booker      |
|                                   | Peru Rd.                                          | 12                  | 3,451       | 11.39                                   | 1.15                          | \$542,348     |                                                                                                                                                                                                                                                                        |
| SCWA                              | Groundwater Banking/ASR Storage                   | No. of Wells        |             | Unit Price per Well                     |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | other                                             | 10                  |             | \$750,000                               |                               | \$7,500,000   | Assume deep ASR water wells.                                                                                                                                                                                                                                           |
|                                   | pipelines                                         | Diam (in)           | Length (ft) | \$/in-ft                                | Constructability <sup>1</sup> | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   | 18                  | 3,000       | 13.00                                   | 1.20                          | \$840,000     |                                                                                                                                                                                                                                                                        |
|                                   | Groundwater Mgt & Recharge: Sonoma Valley         |                     |             | Unit Cost                               |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | other                                             |                     |             | Lump Sum                                |                               | \$4,000,000   | Cost estimated by agency.                                                                                                                                                                                                                                              |
|                                   | Groundwater Mgt & Recharge: Upper Petaluma River  |                     |             | Unit Cost                               |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | other                                             |                     |             | Lump Sum                                |                               | \$3,000,000   | Cost estimated by agency.                                                                                                                                                                                                                                              |
| Napa SD                           | MST Tulocay Pipeline                              | Diam (in)           | Length (ft) | \$/in-ft                                | Constructability <sup>1</sup> | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | pipelines                                         | 12                  | 7,200       | 11.39                                   | 1.20                          | \$1,180,000   | Length measured from Google Map pipe size designated previously.                                                                                                                                                                                                       |
|                                   | Increase Filter Capacity                          | Capacity (MGD)      |             | Unit Price (\$/MGD Increase)            |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | treatment <sup>2</sup>                            | 1.7                 |             | \$653,595                               |                               | \$1,110,000   | Based on capital cost estimate of \$1.5M per email from Jeff Tucker on November 5, 2013.                                                                                                                                                                               |
|                                   | Additional WWTP Covered Storage                   | Volume (AF)         |             | Unit Price (\$/AF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | storage pond <sup>2</sup>                         | 10                  |             | \$148,148                               |                               | \$1,481,480   | Based on capital cost estimate of \$2M provided in email from Jeff Tucker on April 5, 2012.                                                                                                                                                                            |
|                                   | New Seasonal Storage                              |                     |             |                                         |                               |               | Napa SD has identified a number of potential options for storage. Raising WWTP Oxidation Pond Levees is reflected in project cost total below. If the Oxidation Pond option is found to be feasible, other storage options not needed.                                 |
|                                   | Raising WWTP Oxidation Pond Levees                | Length (LF)         |             | Unit Price (\$/LF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | storage ponds                                     | 32000               |             | \$750                                   |                               | \$24,000,000  | Assumes an increase of 14 CY per linear foot to raise existing perimeter and internal levees by 5 ft.                                                                                                                                                                  |
|                                   | Jameson Ranch Storage Pond                        | Volume (AF)         |             | Unit Price (\$/AF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | storage ponds                                     | 250                 |             | \$26,360                                |                               | \$6,590,000   |                                                                                                                                                                                                                                                                        |
|                                   | pipelines                                         | Diam (in)           | Length (ft) | \$/in-ft                                | Constructability <sup>1</sup> | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   | 18                  | 12,000      | 13.00                                   | 1.20                          | \$3,370,000   |                                                                                                                                                                                                                                                                        |
|                                   | Somky Ranch Storage Pond                          | Volume (AF)         |             | Unit Price (\$/AF)                      |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | storage ponds                                     | 250                 |             | \$26,360                                |                               | \$6,590,000   |                                                                                                                                                                                                                                                                        |
|                                   | pipelines                                         | Diam (in)           | Length (ft) | \$/in-ft                                | Constructability <sup>1</sup> | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   | 18                  | 3,000       | 13.00                                   | 1.20                          | \$840,000     |                                                                                                                                                                                                                                                                        |
|                                   | ASR Storage                                       | No. of Wells        |             | Unit Price per Well                     |                               | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   | other                                             | 10                  |             | \$1,000,000                             |                               | \$10,000,000  | Assumes deep ground water ASR wells.                                                                                                                                                                                                                                   |
|                                   | pipelines                                         | Diam (in)           | Length (ft) | \$/in-ft                                | Constructability <sup>1</sup> | Total         | Comments                                                                                                                                                                                                                                                               |
|                                   |                                                   | 18                  | 3,000       | 13.00                                   | 1.20                          | \$840,000     |                                                                                                                                                                                                                                                                        |
| Total Construction Contract Costs |                                                   |                     |             |                                         |                               | \$122,469,308 |                                                                                                                                                                                                                                                                        |

Notes:  
1: Constructability reflects a potential cost increase due to site specific geotechnical or other currently unknown conditions that could affect construction.  
2: Agency supplied pricing used in Phase 2 item estimate due to insufficient information available to use Phase 1 estimating method.

**Chuck Weir**

**From:** Chuck Weir <chuckweir@sbcglobal.net>  
**Sent:** Wednesday, February 05, 2014 12:35 PM  
**To:** 'Beverly James (bevj@novatosan.com)'; 'Dan St. John (DSTJohn@ci.petaluma.ca.us)'; 'Drew McIntyre (drewm@nmwd.com)'; 'Howard Siegel (howardsiegel@comcast.net)'; 'Iribarne, David'; 'Jake Spaulding (Jake.Spaulding@scwa.ca.gov)'; 'Jeff Tucker (jtucker@napasan.com)'; 'Kevin Booker (Kevin.Booker@scwa.ca.gov)'; Leah Walker (lwalker@ci.petaluma.ca.us); 'Leonard Olive (LOLIVE@ci.petaluma.ca.us)'; 'Liz Lewis (lizlewis@co.marin.ca.us)'; 'Mark Williams (mwilliams@lgvsd.org)'; 'Michael Ban (mban@marinwater.org)'; 'Pam Jeane (Pam.Jeane@scwa.ca.gov)'; 'Paul Sellier (psellier@marinwater.org)'; 'Phillip M. Miller (Phillip.Miller@countyofnapa.org)'; 'Renee Webber (Renee.Webber@scwa.ca.gov)'; 'Sandeep Karkal (sandeepk@novatosan.com)'; 'Steve Lederer (Steve.Lederer@countyofnapa.org)'; 'Susan McGuire (SMcGuire@lgvsd.org)'; 'Tim Healy (thealy@napasan.com)'  
**Subject:** Comparison of NBWRA Phase 1 and Phase 2 Feasibility Costs

Good afternoon,

As each agency deliberates its participation in Phase 2, I thought it might be useful to compare the actual costs for the Phase 1 Feasibility Study with the proposed costs for the Phase 2 Feasibility Study. I asked Jake Spaulding, SCWA, to look back through the records and provide the Phase 1 Feasibility Study Costs. The Phase 1 information in the summary below are the actual costs that were submitted to the Bureau of reclamation for reimbursement and the actual reimbursements. Following is the comparison:

### Comparison of Costs for NBWRA Phase 1 and Phase 2 Feasibility Studies

| Phase 1 Feasibility Study              | Costs              | Reimbursed         | % Reimbursed |
|----------------------------------------|--------------------|--------------------|--------------|
| Engineering - CDM                      | \$1,217,950        | \$608,128          | 49.9%        |
| Environmental - ESA                    | \$1,279,867        | \$639,934          | 50.0%        |
| Public Outreach - Rauch Communications | \$281,334          | \$70,333           | 25.0%        |
| SCWA Administration                    | \$518,037          | \$259,019          | 50.0%        |
| <b>Total</b>                           | <b>\$3,297,188</b> | <b>\$1,577,414</b> | <b>47.8%</b> |

Phase 1 included five agencies at the beginning and two were added for a total of seven agencies.

Phase 1 included \$100,000,000 in projects which is \$32,972 in costs per million dollars in projects.

Phase 1 did not include a triple bottom line (TBL) analysis, which is \$743,573 in Phase 2.

| Phase 2 Feasibility Study                    | Proposed Costs     | Likely Reimbursement | % Likely Reimbursement |
|----------------------------------------------|--------------------|----------------------|------------------------|
| Engineering, Environmental, & Outreach - B&C | \$3,841,074        | \$1,920,537          | 50.0%                  |
| SCWA Administration                          | \$450,000          | \$225,000            | 50.0%                  |
| <b>Total</b>                                 | <b>\$4,291,074</b> | <b>\$2,145,537</b>   | <b>50.0%</b>           |

Phase 2 currently includes seven agencies.

Phase 2 currently includes \$206,700,000 in projects, which is \$20,760 in costs per million dollars in projects.

Phase 2 would have to drop to \$130,140,000 in projects to have the same unit cost as Phase 1 assuming no

change in Feasibility Study costs.

As you can see, Phase 2 is quite a bargain on a unit cost basis as compared with Phase 1. If Phase 1 had included the TBL analysis, the difference would be even greater.

Please let me know if you have any questions, or would like additional information.

Thanks,

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North Bay Water Reuse Authority  
Proposed Fiscal Year Budgets  
Fiscal Year 2014/15 through Fiscal Year 2016/17

February 14, 2014

|                                                               | Approved 3/25/13 | Proposed       | Proposed       | Proposed       | Proposed       |
|---------------------------------------------------------------|------------------|----------------|----------------|----------------|----------------|
| Phase 1 Support                                               | FY2013/14        | FY2014/15      | FY2015/16      | FY2016/17      | 3-Year Total   |
| Grant Applications and Management - B&C                       | 60,000           | 50,311         | 50,311         | 17,542         | 118,164        |
| Program Development (40% of \$221,110 total) - Bryant         | -                | 88,444         | 88,444         | 88,444         | 265,332        |
| Federal Advocacy (30% of \$157,900 total) - TFG sub to Bryant | -                | 47,370         | 47,370         | 47,370         | 142,110        |
| Contingency                                                   | 5,000            | -              | -              | -              | -              |
| <b>Total Costs for Phase 1 Support</b>                        | <b>65,000</b>    | <b>186,125</b> | <b>186,125</b> | <b>153,356</b> | <b>525,606</b> |

| Phase 2 Support                                               | FY2013/14     | FY2014/15      | FY2015/16      | FY2016/17      | 3-Year Total   |
|---------------------------------------------------------------|---------------|----------------|----------------|----------------|----------------|
| Program Development (60% of \$221,110 total) - Bryant         | -             | 132,666        | 132,666        | 132,666        | 397,998        |
| Federal Advocacy (70% of \$157,900 total) - TFG sub to Bryant | 18,000        | 110,530        | 110,530        | 110,530        | 331,590        |
| Feasibility Study Grant Application Preparation - B&C         | 40,000        | -              | -              | -              | -              |
| Contingency                                                   | 5,000         | -              | -              | -              | -              |
| <b>Total Costs for Phase 2 Support</b>                        | <b>63,000</b> | <b>243,196</b> | <b>243,196</b> | <b>243,196</b> | <b>729,588</b> |

| Phase 2 Feasibility Study - Three Years                 | FY2013/14      | FY2014/15        | FY2015/16        | FY2016/17        | 3-Year Total     |
|---------------------------------------------------------|----------------|------------------|------------------|------------------|------------------|
| Engineering, Environmental, and Outreach Services - B&C | 166,080        | 1,684,299        | 1,288,564        | 868,211          | 3,841,074        |
| SCWA Administration - Grants and EIR/EIS                | -              | 150,000          | 150,000          | 150,000          | 450,000          |
| Contingency                                             | -              | -                | -                | -                | -                |
| <b>Total Costs for Study</b>                            | <b>166,080</b> | <b>1,834,299</b> | <b>1,438,564</b> | <b>1,018,211</b> | <b>4,291,074</b> |
| <b>Potential Federal Cost Sharing Reimbursement</b>     |                | <b>917,150</b>   | <b>719,282</b>   | <b>509,105</b>   | <b>2,145,537</b> |

| Phase 2 Workshops (18 -month)                  | FY2013/14     | FY2014/15 | FY2015/16 | FY2016/17 | 3-Year Total |
|------------------------------------------------|---------------|-----------|-----------|-----------|--------------|
| Planning, Engineering, and Program Development | 42,275        | -         | -         | -         | -            |
| Contingency                                    | -             | -         | -         | -         | -            |
| <b>Total Costs for Scoping Study Workshops</b> | <b>42,275</b> |           |           |           |              |

| Total Costs for Phase 2 | 271,355 | 2,077,495 | 1,681,760 | 1,261,407 | 5,020,662 |
|-------------------------|---------|-----------|-----------|-----------|-----------|
|-------------------------|---------|-----------|-----------|-----------|-----------|

| Joint Use                                                      | FY2013/14      | FY2014/15      | FY2015/16      | FY2016/17      | 3-Year Total   |
|----------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Program Management - Weir                                      | 78,000         | 78,000         | 83,000         | 83,000         | 244,000        |
| Program Development and Federal Funding - Bryant & Associates  | 178,000        | -              | -              | -              | -              |
| Federal Authorizations and Appropriations - The Ferguson Group | 65,000         | -              | -              | -              | -              |
| Planning, Engineering and Funding Management - CDM Smith       | 10,000         | -              | -              | -              | -              |
| State Advocacy - The Oñate Group (Sub to Bryant)               | 30,000         | 68,000         | 68,000         | 68,000         | 204,000        |
| Outreach and Community Support - Data Instincts                | 50,000         | -              | -              | -              | -              |
| SCWA Administration                                            | 150,000        | 150,000        | 150,000        | 150,000        | 450,000        |
| Contingency                                                    | 25,000         | -              | -              | -              | -              |
| <b>Total Costs for Joint Use</b>                               | <b>586,000</b> | <b>296,000</b> | <b>301,000</b> | <b>301,000</b> | <b>898,000</b> |

| Total Costs                                         | FY2013/14      | FY2014/15        | FY2015/16        | FY2016/17        | 3-Year Total     |
|-----------------------------------------------------|----------------|------------------|------------------|------------------|------------------|
| Weir                                                | 78,000         | 78,000           | 83,000           | 83,000           | 244,000          |
| Bryant & Associates                                 | 199,180        | 447,010          | 447,010          | 447,010          | 1,341,030        |
| The Ferguson Group                                  | 83,000         | -                | -                | -                | -                |
| CDM Smith                                           | 158,710        | -                | -                | -                | -                |
| Brown & Caldwell                                    | 83,890         | 1,734,610        | 1,338,875        | 885,753          | 3,959,238        |
| ESA                                                 | 10,000         | -                | -                | -                | -                |
| The Oñate Group                                     | 30,000         | -                | -                | -                | -                |
| Data Instincts                                      | 50,000         | -                | -                | -                | -                |
| SCWA Administration                                 | 194,575        | 300,000          | 300,000          | 300,000          | 900,000          |
| Contingency                                         | 35,000         | -                | -                | -                | -                |
| <b>Total Costs for NBWRA</b>                        | <b>922,355</b> | <b>2,559,620</b> | <b>2,168,885</b> | <b>1,715,763</b> | <b>6,444,268</b> |
| <b>Potential Federal Cost Sharing Reimbursement</b> |                | <b>917,150</b>   | <b>719,282</b>   | <b>509,105</b>   | <b>2,145,537</b> |
| <b>Potential Net Cost to NBWRA</b>                  | <b>922,355</b> | <b>1,642,471</b> | <b>1,449,603</b> | <b>1,206,657</b> | <b>4,298,731</b> |

**North Bay Water Reuse Authority  
Proposed Agency Cost Allocations  
Fiscal Year 2014/15**

**Member Agency Cost Allocations**

February 14, 2014

| Phase 1 Support                                                         |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |          |
|-------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|----------|
| 25% Shared Equally Between 7 Agencies/<br>75% Shared By Phase 1 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County |          |
| <i>MOU Percent for Phase 1</i>                                          |                  |                  | 7.239%                                         | 31.894%                        | 8.611%                         | 27.473%                                           | 3.571%                              | 17.640%                       | 3.571%         | 100.000% |
| Grant Applications and Management - B&C                                 | 50,311           | 50,311           | 3,642                                          | 16,046                         | 4,332                          | 13,822                                            | 1,797                               | 8,875                         | 1,797          |          |
| Program Development (40% of \$221,110 total) - Bryant                   | 88,444           | 88,444           | 6,402                                          | 28,209                         | 7,616                          | 24,298                                            | 3,159                               | 15,601                        | 3,159          |          |
| Federal Advocacy (30% of \$157,900 total) - TFG sub to Bryant           | 47,370           | 47,370           | 3,429                                          | 15,108                         | 4,079                          | 13,014                                            | 1,692                               | 8,356                         | 1,692          |          |
| <b>Total</b>                                                            | <b>\$186,125</b> | <b>\$186,125</b> | <b>\$13,473</b>                                | <b>\$59,363</b>                | <b>\$16,027</b>                | <b>\$51,134</b>                                   | <b>\$6,647</b>                      | <b>\$32,832</b>               | <b>\$6,647</b> |          |
| <i>FY13/14</i>                                                          | \$65,000         | \$65,000         | \$4,705                                        | \$20,731                       | \$5,597                        | \$17,857                                          | \$2,321                             | \$11,466                      | \$2,321        |          |

| Phase 2 Support                                               |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|---------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared Equally Between Participating Member Agencies          | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| Program Development (60% of \$221,110 total) - Bryant         | 132,666          | 132,666          | 18,952                                         | 18,952                         | 18,952                         | 18,952                                            | 18,952                              | -                             | -              | 18,952              | 18,952                                  |
| Federal Advocacy (70% of \$157,900 total) - TFG sub to Bryant | 110,530          | 110,530          | 15,790                                         | 15,790                         | 15,790                         | 15,790                                            | 15,790                              | -                             | -              | 15,790              | 15,790                                  |
| <b>Total</b>                                                  | <b>\$243,196</b> | <b>\$243,196</b> | <b>\$34,742</b>                                | <b>\$34,742</b>                | <b>\$34,742</b>                | <b>\$34,742</b>                                   | <b>\$34,742</b>                     | <b>\$0</b>                    | <b>\$0</b>     | <b>\$34,742</b>     | <b>\$34,742</b>                         |
| <i>FY13/14</i>                                                | \$63,000         | \$63,000         | \$9,000                                        | \$9,000                        | \$9,000                        | \$9,000                                           | \$9,000                             | \$0                           | \$0            | \$9,000             | \$9,000                                 |

| Phase 2 Feasibility Study - Three Years                          |                    |                    |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|------------------------------------------------------------------|--------------------|--------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared on the Basis of Phase 2 Project Cost in Feasibility Study | Total Budget       | NBWR<br>Share      | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Phase 2 Feasibility Study</i>                     |                    |                    | 10.435%                                        | 22.675%                        | 17.194%                        | 2.521%                                            | 12.525%                             | 0.000%                        | 0.000%         | 28.515%             | 6.134%                                  |
| Engineering, Environmental, and Outreach Services - B&C          | 1,684,299          | 1,684,299          | 175,764                                        | 381,921                        | 289,598                        | 42,454                                            | 210,965                             | -                             | -              | 480,274             | 103,323                                 |
| SCWA Administration - Grants and EIR/EIS                         | 150,000            | 150,000            | 15,653                                         | 34,013                         | 25,791                         | 3,781                                             | 18,788                              | -                             | -              | 42,772              | 9,202                                   |
| <b>Total</b>                                                     | <b>\$1,834,299</b> | <b>\$1,834,299</b> | <b>\$191,417</b>                               | <b>\$415,935</b>               | <b>\$315,390</b>               | <b>\$46,235</b>                                   | <b>\$229,753</b>                    | <b>\$0</b>                    | <b>\$0</b>     | <b>\$523,046</b>    | <b>\$112,525</b>                        |
| <i>FY13/14</i>                                                   | \$208,355          | \$208,355          | \$29,765                                       | \$29,765                       | \$29,765                       | \$29,765                                          | \$29,765                            | \$0                           | \$0            | \$29,765            | \$29,765                                |

| Joint Use                                                                |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|--------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| 25% Shared Equally / 75% Shared on Basis of Phase 1 plus Phase 2 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Joint Use</i>                                             |                  |                  | 9.248%                                         | 23.474%                        | 13.112%                        | 11.845%                                           | 9.109%                              | 7.365%                        | 2.778%         | 17.191%             | 5.879%                                  |
| Program Management - Weir                                                | 78,000           | 78,000           | 7,214                                          | 18,310                         | 10,227                         | 9,239                                             | 7,105                               | 5,745                         | 2,167          | 13,409              | 4,585                                   |
| State Advocacy - The Onate Group (Sub to Bryant)                         | 68,000           | 68,000           | 6,289                                          | 15,962                         | 8,916                          | 8,055                                             | 6,194                               | 5,008                         | 1,889          | 11,690              | 3,997                                   |
| SCWA Administration                                                      | 150,000          | 150,000          | 13,872                                         | 35,211                         | 19,668                         | 17,767                                            | 13,663                              | 11,047                        | 4,167          | 25,786              | 8,818                                   |
| <b>Total</b>                                                             | <b>\$296,000</b> | <b>\$296,000</b> | <b>\$27,375</b>                                | <b>\$69,483</b>                | <b>\$38,811</b>                | <b>\$35,061</b>                                   | <b>\$26,962</b>                     | <b>\$21,800</b>               | <b>\$8,222</b> | <b>\$50,885</b>     | <b>\$17,400</b>                         |
| <i>FY13/14</i>                                                           | \$586,000        | \$586,000        | \$65,111                                       | \$65,111                       | \$65,111                       | \$65,111                                          | \$65,111                            | \$65,111                      | \$65,111       | \$65,111            | \$65,111                                |

Prior Split was equal shares

| Total Cost per Agency for FY 2014/15                    |              |               |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|---------------------------------------------------------|--------------|---------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
|                                                         | Total Budget | NBWR<br>Share | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>FY14/15 Proposed</i>                                 | \$2,559,620  | \$2,559,620   | \$267,007                                      | \$579,523                      | \$404,970                      | \$167,172                                         | \$298,105                           | \$54,632                      | \$14,870       | \$608,674           | \$164,668                               |
| <i>FY13/14</i>                                          | \$922,355    | \$922,355     | \$108,581                                      | \$124,607                      | \$109,473                      | \$121,733                                         | \$106,198                           | \$76,577                      | \$67,433       | \$103,876           | \$103,876                               |
| <i>Difference</i>                                       | \$1,637,265  | \$1,637,265   | \$158,426                                      | \$454,916                      | \$295,497                      | \$45,438                                          | \$191,908                           | (\$21,945)                    | (\$52,563)     | \$504,797           | \$60,792                                |
| Potential Federal Cost Sharing Reimbursement            |              | \$917,150     | \$95,708                                       | \$207,967                      | \$157,695                      | \$23,117                                          | \$114,877                           | \$0                           | \$0            | \$261,523           | \$56,262                                |
| Potential Net Cost to NBWRA                             |              | \$1,642,471   | \$171,299                                      | \$371,556                      | \$247,276                      | \$144,054                                         | \$183,229                           | \$54,632                      | \$14,870       | \$347,151           | \$108,405                               |
| Difference from FY13/14                                 |              | \$720,116     | \$62,718                                       | \$246,949                      | \$137,802                      | \$22,321                                          | \$77,031                            | (\$21,945)                    | (\$52,563)     | \$243,274           | \$4,529                                 |
| Annual Cost if split equally over three years (w/o fed) |              | \$2,148,089   | \$234,329                                      | \$454,178                      | \$336,242                      | \$196,103                                         | \$258,675                           | \$64,165                      | \$39,516       | \$406,561           | \$158,322                               |



**North Bay Water Reuse Authority  
Proposed Agency Cost Allocations  
Fiscal Year 2015/16**

**Member Agency Cost Allocations**

February 14, 2014

| Phase 1 Support                                                         |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |          |
|-------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|----------|
| 25% Shared Equally Between 7 Agencies/<br>75% Shared By Phase 1 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County |          |
| <i>MOU Percent for Phase 1</i>                                          |                  |                  | 7.239%                                         | 31.894%                        | 8.611%                         | 27.473%                                           | 3.571%                              | 17.640%                       | 3.571%         | 100.000% |
| Grant Applications and Management - B&C                                 | 50,311           | 50,311           | 3,642                                          | 16,046                         | 4,332                          | 13,822                                            | 1,797                               | 8,875                         | 1,797          |          |
| Program Development (40% of \$221,110 total) - Bryant                   | 88,444           | 88,444           | 6,402                                          | 28,209                         | 7,616                          | 24,298                                            | 3,159                               | 15,601                        | 3,159          |          |
| Federal Advocacy (30% of \$157,900 total) - TFG sub to Bryant           | 47,370           | 47,370           | 3,429                                          | 15,108                         | 4,079                          | 13,014                                            | 1,692                               | 8,356                         | 1,692          |          |
| <b>Total</b>                                                            | <b>\$186,125</b> | <b>\$186,125</b> | <b>\$13,473</b>                                | <b>\$59,363</b>                | <b>\$16,027</b>                | <b>\$51,134</b>                                   | <b>\$6,647</b>                      | <b>\$32,832</b>               | <b>\$6,647</b> |          |
| <i>FY13/14</i>                                                          | \$65,000         | \$65,000         | \$4,705                                        | \$20,731                       | \$5,597                        | \$17,857                                          | \$2,321                             | \$11,466                      | \$2,321        |          |

| Phase 2 Support                                               |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|---------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared Equally Between Participating Member Agencies          | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| Program Development (60% of \$221,110 total) - Bryant         | 132,666          | 132,666          | 18,952                                         | 18,952                         | 18,952                         | 18,952                                            | 18,952                              | -                             | -              | 18,952              | 18,952                                  |
| Federal Advocacy (70% of \$157,900 total) - TFG sub to Bryant | 110,530          | 110,530          | 15,790                                         | 15,790                         | 15,790                         | 15,790                                            | 15,790                              | -                             | -              | 15,790              | 15,790                                  |
| <b>Total</b>                                                  | <b>\$243,196</b> | <b>\$243,196</b> | <b>\$34,742</b>                                | <b>\$34,742</b>                | <b>\$34,742</b>                | <b>\$34,742</b>                                   | <b>\$34,742</b>                     | <b>\$0</b>                    | <b>\$0</b>     | <b>\$34,742</b>     | <b>\$34,742</b>                         |
| <i>FY13/14</i>                                                | \$63,000         | \$63,000         | \$9,000                                        | \$9,000                        | \$9,000                        | \$9,000                                           | \$9,000                             | \$0                           | \$0            | \$9,000             | \$9,000                                 |

| Phase 2 Feasibility Study - Three Years                          |                    |                    |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|------------------------------------------------------------------|--------------------|--------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared on the Basis of Phase 2 Project Cost in Feasibility Study | Total Budget       | NBWR<br>Share      | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Phase 2 Feasibility Study</i>                     |                    |                    | 10.435%                                        | 22.675%                        | 17.194%                        | 2.521%                                            | 12.525%                             | 0.000%                        | 0.000%         | 28.515%             | 6.134%                                  |
| Engineering, Environmental, and Outreach Services - B&C          | 1,288,564          | 1,288,564          | 134,467                                        | 292,187                        | 221,556                        | 32,479                                            | 161,398                             | -                             | -              | 367,431             | 79,047                                  |
| SCWA Administration - Grants and EIR/EIS                         | 150,000            | 150,000            | 15,653                                         | 34,013                         | 25,791                         | 3,781                                             | 18,788                              | -                             | -              | 42,772              | 9,202                                   |
| <b>Total</b>                                                     | <b>\$1,438,564</b> | <b>\$1,438,564</b> | <b>\$150,120</b>                               | <b>\$326,200</b>               | <b>\$247,347</b>               | <b>\$36,260</b>                                   | <b>\$180,186</b>                    | <b>\$0</b>                    | <b>\$0</b>     | <b>\$410,203</b>    | <b>\$88,249</b>                         |
| <i>FY13/14</i>                                                   | \$208,355          | \$208,355          | \$29,765                                       | \$29,765                       | \$29,765                       | \$29,765                                          | \$29,765                            | \$0                           | \$0            | \$29,765            | \$29,765                                |

| Joint Use                                                                |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|--------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| 25% Shared Equally / 75% Shared on Basis of Phase 1 plus Phase 2 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Joint Use</i>                                             |                  |                  | 9.248%                                         | 23.474%                        | 13.112%                        | 11.845%                                           | 9.109%                              | 7.365%                        | 2.778%         | 17.191%             | 5.879%                                  |
| Program Management - Weir                                                | 83,000           | 83,000           | 7,676                                          | 19,483                         | 10,883                         | 9,831                                             | 7,560                               | 6,113                         | 2,306          | 14,268              | 4,879                                   |
| State Advocacy - The Onate Group (Sub to Bryant)                         | 68,000           | 68,000           | 6,289                                          | 15,962                         | 8,916                          | 8,055                                             | 6,194                               | 5,008                         | 1,889          | 11,690              | 3,997                                   |
| SCWA Administration                                                      | 150,000          | 150,000          | 13,872                                         | 35,211                         | 19,668                         | 17,767                                            | 13,663                              | 11,047                        | 4,167          | 25,786              | 8,818                                   |
| <b>Total</b>                                                             | <b>\$301,000</b> | <b>\$301,000</b> | <b>\$27,837</b>                                | <b>\$70,657</b>                | <b>\$39,467</b>                | <b>\$35,653</b>                                   | <b>\$27,418</b>                     | <b>\$22,168</b>               | <b>\$8,361</b> | <b>\$51,745</b>     | <b>\$17,694</b>                         |
| <i>FY13/14</i>                                                           | \$586,000        | \$586,000        | \$65,111                                       | \$65,111                       | \$65,111                       | \$65,111                                          | \$65,111                            | \$65,111                      | \$65,111       | \$65,111            | \$65,111                                |

Prior Split was equal shares

| Total Cost per Agency for FY 2015/16                    |              |               |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|---------------------------------------------------------|--------------|---------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
|                                                         | Total Budget | NBWR<br>Share | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>FY14/15 Proposed</i>                                 | \$2,168,885  | \$2,168,885   | \$226,173                                      | \$490,963                      | \$337,583                      | \$157,789                                         | \$248,993                           | \$55,001                      | \$15,008       | \$496,690           | \$140,685                               |
| <i>FY13/14</i>                                          | \$922,355    | \$922,355     | \$108,581                                      | \$124,607                      | \$109,473                      | \$121,733                                         | \$106,198                           | \$76,577                      | \$67,433       | \$103,876           | \$103,876                               |
| <i>Difference</i>                                       | \$1,246,530  | \$1,246,530   | \$117,592                                      | \$366,355                      | \$228,110                      | \$36,056                                          | \$142,796                           | (\$21,577)                    | (\$52,424)     | \$392,814           | \$36,809                                |
| Potential Federal Cost Sharing Reimbursement            |              | \$719,282     | \$75,060                                       | \$163,100                      | \$123,673                      | \$18,130                                          | \$90,093                            | \$0                           | \$0            | \$205,102           | \$44,124                                |
| Potential Net Cost to NBWRA                             |              | \$1,449,603   | \$151,113                                      | \$327,863                      | \$213,910                      | \$139,659                                         | \$158,900                           | \$55,001                      | \$15,008       | \$291,589           | \$96,561                                |
| Difference from FY13/14                                 |              | \$527,248     | \$42,532                                       | \$203,255                      | \$104,437                      | \$17,926                                          | \$52,703                            | (\$21,577)                    | (\$52,424)     | \$187,713           | (\$7,315)                               |
| Annual Cost if split equally over three years (w/o fed) |              | \$2,148,089   | \$234,329                                      | \$454,178                      | \$336,242                      | \$196,103                                         | \$258,675                           | \$64,165                      | \$39,516       | \$406,561           | \$158,322                               |

**North Bay Water Reuse Authority  
Proposed Agency Cost Allocations  
Fiscal Year 2016/17**

**Member Agency Cost Allocations**

February 14, 2014

| Phase 1 Support                                                         |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |          |
|-------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|----------|
| 25% Shared Equally Between 7 Agencies/<br>75% Shared By Phase 1 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County |          |
| <i>MOU Percent for Phase 1</i>                                          |                  |                  | 7.239%                                         | 31.894%                        | 8.611%                         | 27.473%                                           | 3.571%                              | 17.640%                       | 3.571%         | 100.000% |
| Grant Applications and Management - B&C                                 | 17,542           | 17,542           | 1,270                                          | 5,595                          | 1,511                          | 4,819                                             | 627                                 | 3,094                         | 627            |          |
| Program Development (40% of \$221,110 total) - Bryant                   | 88,444           | 88,444           | 6,402                                          | 28,209                         | 7,616                          | 24,298                                            | 3,159                               | 15,601                        | 3,159          |          |
| Federal Advocacy (30% of \$157,900 total) - TFG sub to Bryant           | 47,370           | 47,370           | 3,429                                          | 15,108                         | 4,079                          | 13,014                                            | 1,692                               | 8,356                         | 1,692          |          |
| <b>Total</b>                                                            | <b>\$153,356</b> | <b>\$153,356</b> | <b>\$11,101</b>                                | <b>\$48,912</b>                | <b>\$13,206</b>                | <b>\$42,131</b>                                   | <b>\$5,477</b>                      | <b>\$27,052</b>               | <b>\$5,477</b> |          |
| <i>FY13/14</i>                                                          | \$65,000         | \$65,000         | \$4,705                                        | \$20,731                       | \$5,597                        | \$17,857                                          | \$2,321                             | \$11,466                      | \$2,321        |          |

| Phase 2 Support                                               |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|---------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared Equally Between Participating Member Agencies          | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| Program Development (60% of \$221,110 total) - Bryant         | 132,666          | 132,666          | 18,952                                         | 18,952                         | 18,952                         | 18,952                                            | 18,952                              | -                             | -              | 18,952              | 18,952                                  |
| Federal Advocacy (70% of \$157,900 total) - TFG sub to Bryant | 110,530          | 110,530          | 15,790                                         | 15,790                         | 15,790                         | 15,790                                            | 15,790                              | -                             | -              | 15,790              | 15,790                                  |
| <b>Total</b>                                                  | <b>\$243,196</b> | <b>\$243,196</b> | <b>\$34,742</b>                                | <b>\$34,742</b>                | <b>\$34,742</b>                | <b>\$34,742</b>                                   | <b>\$34,742</b>                     | <b>\$0</b>                    | <b>\$0</b>     | <b>\$34,742</b>     | <b>\$34,742</b>                         |
| <i>FY13/14</i>                                                | \$63,000         | \$63,000         | \$9,000                                        | \$9,000                        | \$9,000                        | \$9,000                                           | \$9,000                             | \$0                           | \$0            | \$9,000             | \$9,000                                 |

| Phase 2 Feasibility Study - Three Years                          |                    |                    |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|------------------------------------------------------------------|--------------------|--------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared on the Basis of Phase 2 Project Cost in Feasibility Study | Total Budget       | NBWR<br>Share      | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Phase 2 Feasibility Study</i>                     |                    |                    | 10.435%                                        | 22.675%                        | 17.194%                        | 2.521%                                            | 12.525%                             | 0.000%                        | 0.000%         | 28.515%             | 6.134%                                  |
| Engineering, Environmental, and Outreach Services - B&C          | 868,211            | 868,211            | 90,601                                         | 196,870                        | 149,280                        | 21,884                                            | 108,747                             | -                             | -              | 247,568             | 53,260                                  |
| SCWA Administration - Grants and EIR/EIS                         | 150,000            | 150,000            | 15,653                                         | 34,013                         | 25,791                         | 3,781                                             | 18,788                              | -                             | -              | 42,772              | 9,202                                   |
| <b>Total</b>                                                     | <b>\$1,018,211</b> | <b>\$1,018,211</b> | <b>\$106,255</b>                               | <b>\$230,883</b>               | <b>\$175,071</b>               | <b>\$25,665</b>                                   | <b>\$127,535</b>                    | <b>\$0</b>                    | <b>\$0</b>     | <b>\$290,341</b>    | <b>\$62,462</b>                         |
| <i>FY13/14</i>                                                   | \$208,355          | \$208,355          | \$29,765                                       | \$29,765                       | \$29,765                       | \$29,765                                          | \$29,765                            | \$0                           | \$0            | \$29,765            | \$29,765                                |

| Joint Use                                                                |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|--------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| 25% Shared Equally / 75% Shared on Basis of Phase 1 plus Phase 2 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Joint Use</i>                                             |                  |                  | 9.248%                                         | 23.474%                        | 13.112%                        | 11.845%                                           | 9.109%                              | 7.365%                        | 2.778%         | 17.191%             | 5.879%                                  |
| Program Management - Weir                                                | 83,000           | 83,000           | 7,676                                          | 19,483                         | 10,883                         | 9,831                                             | 7,560                               | 6,113                         | 2,306          | 14,268              | 4,879                                   |
| State Advocacy - The Onate Group (Sub to Bryant)                         | 68,000           | 68,000           | 6,289                                          | 15,962                         | 8,916                          | 8,055                                             | 6,194                               | 5,008                         | 1,889          | 11,690              | 3,997                                   |
| SCWA Administration                                                      | 150,000          | 150,000          | 13,872                                         | 35,211                         | 19,668                         | 17,767                                            | 13,663                              | 11,047                        | 4,167          | 25,786              | 8,818                                   |
| <b>Total</b>                                                             | <b>\$301,000</b> | <b>\$301,000</b> | <b>\$27,837</b>                                | <b>\$70,657</b>                | <b>\$39,467</b>                | <b>\$35,653</b>                                   | <b>\$27,418</b>                     | <b>\$22,168</b>               | <b>\$8,361</b> | <b>\$51,745</b>     | <b>\$17,694</b>                         |
| <i>FY13/14</i>                                                           | \$586,000        | \$586,000        | \$65,111                                       | \$65,111                       | \$65,111                       | \$65,111                                          | \$65,111                            | \$65,111                      | \$65,111       | \$65,111            | \$65,111                                |

Prior Split was equal shares

| Total Cost per Agency for FY 2016/17                    |              |               |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|---------------------------------------------------------|--------------|---------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
|                                                         | Total Budget | NBWR<br>Share | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>FY14/15 Proposed</i>                                 | \$1,715,763  | \$1,715,763   | \$179,935                                      | \$385,195                      | \$262,486                      | \$138,191                                         | \$195,172                           | \$49,220                      | \$13,838       | \$376,827           | \$114,899                               |
| <i>FY13/14</i>                                          | \$922,355    | \$922,355     | \$108,581                                      | \$124,607                      | \$109,473                      | \$121,733                                         | \$106,198                           | \$76,577                      | \$67,433       | \$103,876           | \$103,876                               |
| <i>Difference</i>                                       | \$793,408    | \$793,408     | \$71,354                                       | \$260,587                      | \$153,013                      | \$16,458                                          | \$88,975                            | (\$27,357)                    | (\$53,594)     | \$272,951           | \$11,023                                |
| Potential Federal Cost Sharing Reimbursement            |              | \$509,105     | \$53,127                                       | \$115,442                      | \$87,536                       | \$12,832                                          | \$63,767                            | \$0                           | \$0            | \$145,170           | \$31,231                                |
| Potential Net Cost to NBWRA                             |              | \$1,206,657   | \$126,808                                      | \$269,753                      | \$174,950                      | \$125,359                                         | \$131,405                           | \$49,220                      | \$13,838       | \$231,657           | \$83,668                                |
| Difference from FY13/14                                 |              | \$284,302     | \$18,227                                       | \$145,145                      | \$65,477                       | \$3,626                                           | \$25,207                            | (\$27,357)                    | (\$53,594)     | \$127,781           | (\$20,208)                              |
| Annual Cost if split equally over three years (w/o fed) |              | \$2,148,089   | \$234,329                                      | \$454,178                      | \$336,242                      | \$196,103                                         | \$258,675                           | \$64,165                      | \$39,516       | \$406,561           | \$158,322                               |

**North Bay Water Reuse Authority  
Proposed Agency Cost Allocations  
Three Fiscal Year 2014/15, 2015/16, and 2016/17**

**Member Agency Cost Allocations**  
February 14, 2014

| Phase 1 Support                                                         |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                 |
|-------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|-----------------|
| 25% Shared Equally Between 7 Agencies/<br>75% Shared By Phase 1 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County  |
| <i>MOU Percent for Phase 1</i>                                          |                  |                  | 7.239%                                         | 31.894%                        | 8.611%                         | 27.473%                                           | 3.571%                              | 17.640%                       | 3.571%          |
| Grant Applications and Management - B&C                                 | 118,164          | 118,164          | 8,554                                          | 37,688                         | 10,175                         | 32,463                                            | 4,220                               | 20,844                        | 4,220           |
| Program Development (40% of \$221,110 total) - Bryant                   | 265,332          | 265,332          | 19,207                                         | 84,626                         | 22,848                         | 72,894                                            | 9,476                               | 46,804                        | 9,476           |
| Federal Advocacy (30% of \$157,900 total) - TFG sub to Bryant           | 142,110          | 142,110          | 10,287                                         | 45,325                         | 12,237                         | 39,042                                            | 5,075                               | 25,068                        | 5,075           |
| <b>Total</b>                                                            | <b>\$525,606</b> | <b>\$525,606</b> | <b>\$38,048</b>                                | <b>\$167,639</b>               | <b>\$45,260</b>                | <b>\$144,399</b>                                  | <b>\$18,772</b>                     | <b>\$92,717</b>               | <b>\$18,772</b> |
| <i>FY13/14</i>                                                          | \$65,000         | \$65,000         | \$4,705                                        | \$20,731                       | \$5,597                        | \$17,857                                          | \$2,321                             | \$11,466                      | \$2,321         |

100.000%

| Phase 2 Support                                               |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|---------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared Equally Between Participating Member Agencies          | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| Program Development (60% of \$221,110 total) - Bryant         | 397,998          | 397,998          | 56,857                                         | 56,857                         | 56,857                         | 56,857                                            | 56,857                              | -                             | -              | 56,857              | 56,857                                  |
| Federal Advocacy (70% of \$157,900 total) - TFG sub to Bryant | 331,590          | 331,590          | 47,370                                         | 47,370                         | 47,370                         | 47,370                                            | 47,370                              | -                             | -              | 47,370              | 47,370                                  |
| <b>Total</b>                                                  | <b>\$729,588</b> | <b>\$729,588</b> | <b>\$104,227</b>                               | <b>\$104,227</b>               | <b>\$104,227</b>               | <b>\$104,227</b>                                  | <b>\$104,227</b>                    | <b>\$0</b>                    | <b>\$0</b>     | <b>\$9,000</b>      | <b>\$104,227</b>                        |
| <i>FY13/14</i>                                                | \$63,000         | \$63,000         | \$9,000                                        | \$9,000                        | \$9,000                        | \$9,000                                           | \$9,000                             | \$0                           | \$0            | \$9,000             | \$9,000                                 |

| Phase 2 Feasibility Study - Three Years                          |                    |                    |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|------------------------------------------------------------------|--------------------|--------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared on the Basis of Phase 2 Project Cost in Feasibility Study | Total Budget       | NBWR<br>Share      | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Phase 2 Feasibility Study</i>                     |                    |                    | 10.435%                                        | 22.675%                        | 17.194%                        | 2.521%                                            | 12.525%                             | 0.000%                        | 0.000%         | 28.515%             | 6.134%                                  |
| Engineering, Environmental, and Outreach Services - B&C          | 3,841,074          | 3,841,074          | 400,832                                        | 870,978                        | 660,434                        | 96,817                                            | 481,110                             | -                             | -              | 1,095,273           | 235,630                                 |
| SCWA Administration - Grants and EIR/EIS                         | 450,000            | 450,000            | 46,959                                         | 102,039                        | 77,373                         | 11,343                                            | 56,364                              | -                             | -              | 128,316             | 27,605                                  |
| <b>Total</b>                                                     | <b>\$4,291,074</b> | <b>\$4,291,074</b> | <b>\$447,791</b>                               | <b>\$973,017</b>               | <b>\$737,808</b>               | <b>\$108,159</b>                                  | <b>\$537,474</b>                    | <b>\$0</b>                    | <b>\$0</b>     | <b>\$1,223,590</b>  | <b>\$263,236</b>                        |
| <i>FY13/14</i>                                                   | \$208,355          | \$208,355          | \$29,765                                       | \$29,765                       | \$29,765                       | \$29,765                                          | \$29,765                            | \$0                           | \$0            | \$29,765            | \$29,765                                |

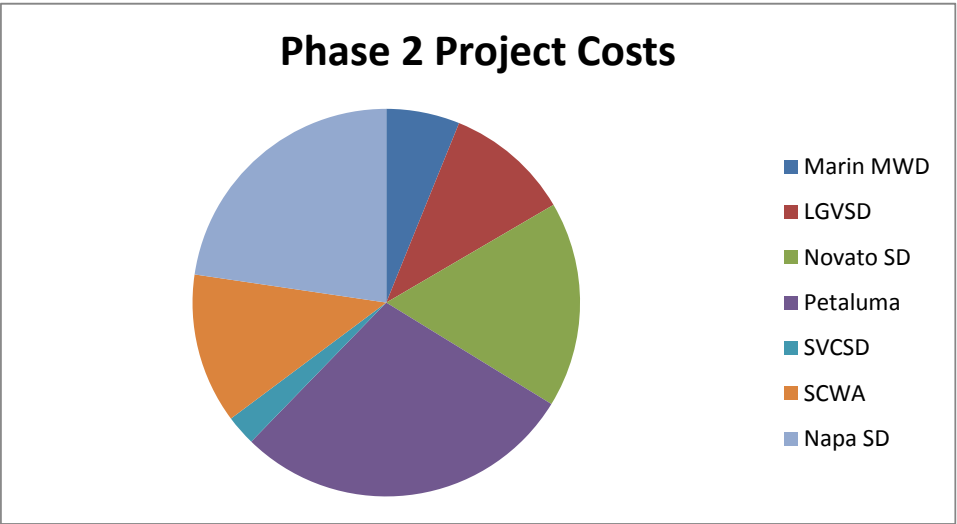
| Joint Use                                                                |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                 |                     |                                         |
|--------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|-----------------|---------------------|-----------------------------------------|
| 25% Shared Equally / 75% Shared on Basis of Phase 1 plus Phase 2 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County  | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Joint Use</i>                                             |                  |                  | 9.248%                                         | 23.474%                        | 13.112%                        | 11.845%                                           | 9.109%                              | 7.365%                        | 2.778%          | 17.191%             | 5.879%                                  |
| Program Management - Weir                                                | 244,000          | 244,000          | 22,566                                         | 57,277                         | 31,993                         | 28,902                                            | 22,226                              | 17,970                        | 6,778           | 41,946              | 14,344                                  |
| State Advocacy - The Onate Group (Sub to Bryant)                         | 204,000          | 204,000          | 18,866                                         | 47,887                         | 26,748                         | 24,164                                            | 18,582                              | 15,024                        | 5,667           | 35,069              | 11,992                                  |
| SCWA Administration                                                      | 450,000          | 450,000          | 41,617                                         | 105,633                        | 59,003                         | 53,302                                            | 40,990                              | 33,142                        | 12,500          | 77,359              | 26,453                                  |
| <b>Total</b>                                                             | <b>\$898,000</b> | <b>\$898,000</b> | <b>\$83,049</b>                                | <b>\$210,797</b>               | <b>\$117,745</b>               | <b>\$106,367</b>                                  | <b>\$81,798</b>                     | <b>\$66,136</b>               | <b>\$24,944</b> | <b>\$154,374</b>    | <b>\$52,789</b>                         |
| <i>FY13/14</i>                                                           | \$586,000        | \$586,000        | \$65,111                                       | \$65,111                       | \$65,111                       | \$65,111                                          | \$65,111                            | \$65,111                      | \$65,111        | \$65,111            | \$65,111                                |

Prior Split was equal shares

| Total Cost per Agency for FY2014/15, FY2015/16, and FY2016/17 |              |               |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|---------------------------------------------------------------|--------------|---------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
|                                                               | Total Budget | NBWR<br>Share | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>FY14/15 Proposed</i>                                       | \$6,444,268  | \$6,444,268   | \$673,115                                      | \$1,455,680                    | \$1,005,040                    | \$463,152                                         | \$742,271                           | \$158,853                     | \$43,716       | \$1,482,191         | \$420,252                               |
| <i>FY13/14</i>                                                | \$922,355    | \$922,355     | \$108,581                                      | \$124,607                      | \$109,473                      | \$121,733                                         | \$106,198                           | \$76,577                      | \$67,433       | \$103,876           | \$103,876                               |
| <i>Difference</i>                                             | \$5,521,913  | \$5,521,913   | \$564,534                                      | \$1,331,073                    | \$895,566                      | \$341,419                                         | \$636,073                           | \$82,276                      | -\$23,716      | \$1,378,315         | \$316,376                               |
| Potential Federal Cost Sharing Reimbursement                  |              | \$2,145,537   | \$223,896                                      | \$486,509                      | \$368,904                      | \$54,080                                          | \$268,737                           | \$0                           | \$0            | \$611,795           | \$131,618                               |
| Potential Net Cost to NBWRA                                   |              | \$4,298,731   | \$449,220                                      | \$969,172                      | \$636,136                      | \$409,073                                         | \$473,533                           | \$158,853                     | \$43,716       | \$870,396           | \$288,634                               |
| Difference from FY13/14                                       |              |               |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
| Annual Cost if split equally over three years (w/o fed)       |              | \$2,148,089   | \$224,372                                      | \$485,227                      | \$335,013                      | \$154,384                                         | \$247,424                           | \$52,951                      | \$14,572       | \$494,064           | \$140,084                               |

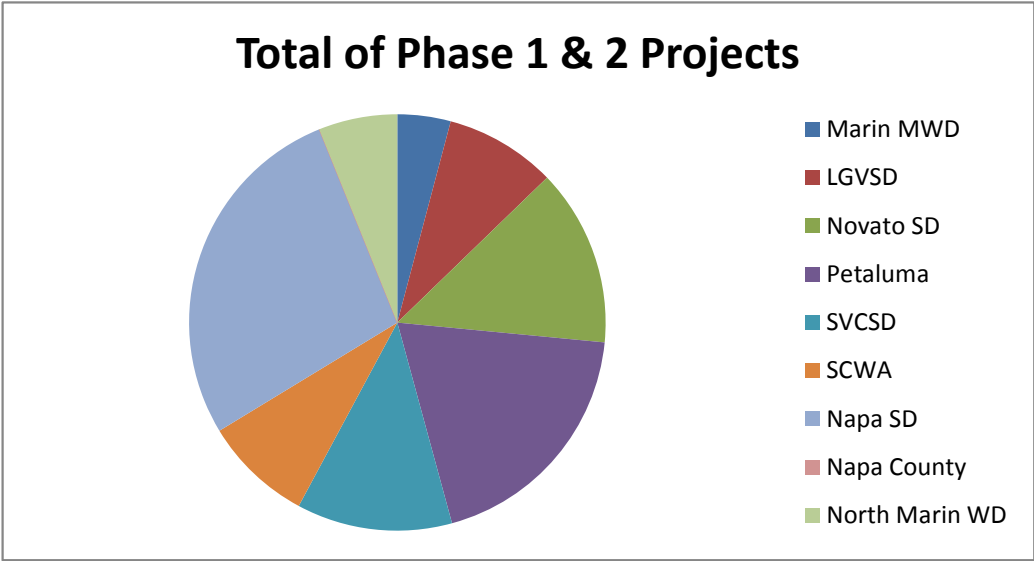
**Feasibility Study Percent Calculations**

| Member Agency | Phase 2 Project Costs | Percent of Total Project Costs | 3-Yr Feasibility Study Costs | Study Cost per Million Dollars of Projects |
|---------------|-----------------------|--------------------------------|------------------------------|--------------------------------------------|
| Marin MWD     | \$12,680,000          | 6.134%                         | \$263,236                    | \$20,760                                   |
| LGVSD         | \$21,570,000          | 10.435%                        | \$447,791                    | \$20,760                                   |
| Novato SD     | \$35,540,000          | 17.194%                        | \$737,808                    | \$20,760                                   |
| Petaluma      | \$58,940,000          | 28.515%                        | \$1,223,590                  | \$20,760                                   |
| SVCSD         | \$5,210,000           | 2.521%                         | \$108,159                    | \$20,760                                   |
| SCWA          | \$25,890,000          | 12.525%                        | \$537,474                    | \$20,760                                   |
| Napa SD       | \$46,870,000          | 22.675%                        | \$973,017                    | \$20,760                                   |
| <b>TOTAL</b>  | <b>\$206,700,000</b>  | <b>100.000%</b>                | <b>\$4,291,075</b>           | <b>\$20,760</b>                            |



**Joint Use Percent Calculations**

| Member Agency  | Phase 1 Project Costs | Phase 2 Project Costs | Total of Phase 1 & 2 Projects | 25% Split Equally | 75% Split based on Total Project Costs | Total of Percentages |
|----------------|-----------------------|-----------------------|-------------------------------|-------------------|----------------------------------------|----------------------|
| Marin MWD      | \$0                   | \$12,680,000          | \$12,680,000                  | 2.778%            | 3.101%                                 | 5.879%               |
| LGVSD          | \$4,889,892           | \$21,570,000          | \$26,459,892                  | 2.778%            | 6.470%                                 | 9.248%               |
| Novato SD      | \$6,719,572           | \$35,540,000          | \$42,259,572                  | 2.778%            | 10.334%                                | 13.112%              |
| Petaluma       | \$0                   | \$58,940,000          | \$58,940,000                  | 2.778%            | 14.413%                                | 17.191%              |
| SVCSD          | \$31,868,536          | \$5,210,000           | \$37,078,536                  | 2.778%            | 9.067%                                 | 11.845%              |
| SCWA           | \$0                   | \$25,890,000          | \$25,890,000                  | 2.778%            | 6.331%                                 | 9.109%               |
| Napa SD        | \$37,763,984          | \$46,870,000          | \$84,633,984                  | 2.778%            | 20.696%                                | 23.474%              |
| Napa County    | \$0                   | \$0                   | \$0                           | 2.778%            | 0.000%                                 | 2.778%               |
| North Marin WD | \$18,758,016          | \$0                   | \$18,758,016                  | 2.778%            | 4.587%                                 | 7.365%               |
| <b>TOTAL</b>   | <b>\$100,000,000</b>  | <b>\$206,700,000</b>  | <b>\$306,700,000</b>          | <b>25.000%</b>    | <b>75.000%</b>                         | <b>100.000%</b>      |



**North Bay Water Reuse Authority  
Proposed Agency Cost Allocations  
Three Fiscal Year 2014/15, 2015/16, and 2016/17**

**Member Agency Cost Allocations**

February 14, 2014

| Phase 1 Support                                                         |                  |                  |                                                |                                |                                |                                                   |                                  |                               |                 |          |
|-------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|----------------------------------|-------------------------------|-----------------|----------|
| 25% Shared Equally Between 7 Agencies/<br>75% Shared By Phase 1 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County Water<br>Agency | North Marin<br>Water District | Napa<br>County  |          |
| <i>MOU Percent for Phase 1</i>                                          |                  |                  | 7.239%                                         | 31.894%                        | 8.611%                         | 27.473%                                           | 3.571%                           | 17.640%                       | 3.571%          | 100.000% |
| Grant Applications and Management - B&C                                 | 118,164          | 118,164          | 8,554                                          | 37,688                         | 10,175                         | 32,463                                            | 4,220                            | 20,844                        | 4,220           |          |
| Program Development (40% of \$221,110 total) - Bryant                   | 265,332          | 265,332          | 19,207                                         | 84,626                         | 22,848                         | 72,894                                            | 9,476                            | 46,804                        | 9,476           |          |
| Federal Advocacy (30% of \$157,900 total) - TFG sub to Bryant           | 142,110          | 142,110          | 10,287                                         | 45,325                         | 12,237                         | 39,042                                            | 5,075                            | 25,068                        | 5,075           |          |
| <b>Total</b>                                                            | <b>\$525,606</b> | <b>\$525,606</b> | <b>\$38,048</b>                                | <b>\$167,639</b>               | <b>\$45,260</b>                | <b>\$144,399</b>                                  | <b>\$18,772</b>                  | <b>\$92,717</b>               | <b>\$18,772</b> |          |
| <i>FY13/14</i>                                                          | \$65,000         | \$65,000         | \$4,705                                        | \$20,731                       | \$5,597                        | \$17,857                                          | \$2,321                          | \$11,466                      | \$2,321         |          |

| Phase 2 Support                                               |                  |                  |                                                |                                |                                |                                                   |                                  |                               |                |                     |                                         |
|---------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|----------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared Equally Between Participating Member Agencies          | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| Program Development (60% of \$221,110 total) - Bryant         | 397,998          | 397,998          | 56,857                                         | 56,857                         | 56,857                         | 56,857                                            | 56,857                           | -                             | -              | 56,857              | 56,857                                  |
| Federal Advocacy (70% of \$157,900 total) - TFG sub to Bryant | 331,590          | 331,590          | 47,370                                         | 47,370                         | 47,370                         | 47,370                                            | 47,370                           | -                             | -              | 47,370              | 47,370                                  |
| <b>Total</b>                                                  | <b>\$729,588</b> | <b>\$729,588</b> | <b>\$104,227</b>                               | <b>\$104,227</b>               | <b>\$104,227</b>               | <b>\$104,227</b>                                  | <b>\$104,227</b>                 | <b>\$0</b>                    | <b>\$0</b>     | <b>\$104,227</b>    | <b>\$104,227</b>                        |
| <i>FY13/14</i>                                                | \$63,000         | \$63,000         | \$9,000                                        | \$9,000                        | \$9,000                        | \$9,000                                           | \$9,000                          | \$0                           | \$0            | \$9,000             | \$9,000                                 |

| Phase 2 Feasibility Study - Three Years                          |                    |                    |                                                |                                |                                |                                                   |                                  |                               |                |                     |                                         |
|------------------------------------------------------------------|--------------------|--------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|----------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared on the Basis of Phase 2 Project Cost in Feasibility Study | Total Budget       | NBWR<br>Share      | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Phase 2 Feasibility Study</i>                     |                    |                    | 10.435%                                        | 22.675%                        | 17.194%                        | 2.521%                                            | 12.525%                          | 0.000%                        | 0.000%         | 28.515%             | 6.134%                                  |
| Engineering, Environmental, and Outreach Services - B&C          | 3,841,074          | 3,841,074          | 400,832                                        | 870,978                        | 660,434                        | 96,817                                            | 481,110                          | -                             | -              | 1,095,273           | 235,630                                 |
| SCWA Administration - Grants and EIR/EIS                         | 450,000            | 450,000            | 46,959                                         | 102,039                        | 77,373                         | 11,343                                            | 56,364                           | -                             | -              | 128,316             | 27,605                                  |
| <b>Total</b>                                                     | <b>\$4,291,074</b> | <b>\$4,291,074</b> | <b>\$447,791</b>                               | <b>\$973,017</b>               | <b>\$737,808</b>               | <b>\$108,159</b>                                  | <b>\$537,474</b>                 | <b>\$0</b>                    | <b>\$0</b>     | <b>\$1,223,590</b>  | <b>\$263,236</b>                        |
| <i>FY13/14</i>                                                   | \$208,355          | \$208,355          | \$29,765                                       | \$29,765                       | \$29,765                       | \$29,765                                          | \$29,765                         | \$0                           | \$0            | \$29,765            | \$29,765                                |

| Joint Use                                              |                  |                  |                                                |                                |                                |                                                   |                                  |                               |                 |                     |                                         |
|--------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|----------------------------------|-------------------------------|-----------------|---------------------|-----------------------------------------|
| Shared Equally Between Current and New Member Agencies | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County Water<br>Agency | North Marin<br>Water District | Napa<br>County  | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| Program Management - Weir                              | 244,000          | 244,000          | 27,111                                         | 27,111                         | 27,111                         | 27,111                                            | 27,111                           | 27,111                        | 27,111          | 27,111              | 27,111                                  |
| State Advocacy - The Onate Group (Sub to Bryant)       | 204,000          | 204,000          | 22,667                                         | 22,667                         | 22,667                         | 22,667                                            | 22,667                           | 22,667                        | 22,667          | 22,667              | 22,667                                  |
| SCWA Administration                                    | 450,000          | 450,000          | 50,000                                         | 50,000                         | 50,000                         | 50,000                                            | 50,000                           | 50,000                        | 50,000          | 50,000              | 50,000                                  |
| <b>Total</b>                                           | <b>\$898,000</b> | <b>\$898,000</b> | <b>\$99,778</b>                                | <b>\$99,778</b>                | <b>\$99,778</b>                | <b>\$99,778</b>                                   | <b>\$99,778</b>                  | <b>\$99,778</b>               | <b>\$99,778</b> | <b>\$99,778</b>     | <b>\$99,778</b>                         |
| <i>FY13/14</i>                                         | \$586,000        | \$586,000        | \$65,111                                       | \$65,111                       | \$65,111                       | \$65,111                                          | \$65,111                         | \$65,111                      | \$65,111        | \$65,111            | \$65,111                                |

| Total Cost per Agency for FY2014/15, FY2015/16, and FY2016/17  |              |               |                                                |                                |                                |                                                   |                                  |                               |                |                     |                                         |
|----------------------------------------------------------------|--------------|---------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|----------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
|                                                                | Total Budget | NBWR<br>Share | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>FY14/15 Proposed</i>                                        | \$6,444,268  | \$6,444,268   | \$689,844                                      | \$1,344,661                    | \$987,073                      | \$456,563                                         | \$760,251                        | \$192,494                     | \$118,549      | \$1,427,594         | \$467,240                               |
| <i>FY13/14</i>                                                 | \$922,355    | \$922,355     | \$108,581                                      | \$124,607                      | \$109,473                      | \$121,733                                         | \$106,198                        | \$76,577                      | \$67,433       | \$103,876           | \$103,876                               |
| <i>Difference</i>                                              | \$5,521,913  | \$5,521,913   | \$581,263                                      | \$1,220,054                    | \$877,599                      | \$334,829                                         | \$654,053                        | \$115,917                     | \$51,117       | \$1,323,718         | \$363,364                               |
| <i>Potential Federal Cost Sharing Reimbursement</i>            |              | \$2,145,537   | \$223,896                                      | \$486,509                      | \$368,904                      | \$54,080                                          | \$268,737                        | \$0                           | \$0            | \$611,795           | \$131,618                               |
| <i>Potential Net Cost to NBWRA</i>                             |              | \$4,298,731   | \$465,948                                      | \$858,152                      | \$618,169                      | \$402,483                                         | \$491,513                        | \$192,494                     | \$118,549      | \$815,800           | \$335,623                               |
| <i>Difference from FY13/14</i>                                 |              |               |                                                |                                |                                |                                                   |                                  |                               |                |                     |                                         |
| <i>Annual Cost if split equally over three years (w/o fed)</i> |              | \$2,148,089   | \$229,948                                      | \$448,220                      | \$329,024                      | \$152,188                                         | \$253,417                        | \$64,165                      | \$39,516       | \$475,865           | \$155,747                               |

**North Bay Water Reuse Authority  
Proposed Agency Cost Allocations  
Three Fiscal Year 2014/15, 2015/16, and 2016/17**

**Member Agency Cost Allocations**

February 14, 2014

| Phase 1 Support                                                         |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                 |
|-------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|-----------------|
| 25% Shared Equally Between 7 Agencies/<br>75% Shared By Phase 1 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County  |
| <i>MOU Percent for Phase 1</i>                                          |                  |                  | 7.239%                                         | 31.894%                        | 8.611%                         | 27.473%                                           | 3.571%                              | 17.640%                       | 3.571%          |
| Grant Applications and Management - B&C                                 | 118,164          | 118,164          | 8,554                                          | 37,688                         | 10,175                         | 32,463                                            | 4,220                               | 20,844                        | 4,220           |
| Program Development (40% of \$221,110 total) - Bryant                   | 265,332          | 265,332          | 19,207                                         | 84,626                         | 22,848                         | 72,894                                            | 9,476                               | 46,804                        | 9,476           |
| Federal Advocacy (30% of \$157,900 total) - TFG sub to Bryant           | 142,110          | 142,110          | 10,287                                         | 45,325                         | 12,237                         | 39,042                                            | 5,075                               | 25,068                        | 5,075           |
| <b>Total</b>                                                            | <b>\$525,606</b> | <b>\$525,606</b> | <b>\$38,048</b>                                | <b>\$167,639</b>               | <b>\$45,260</b>                | <b>\$144,399</b>                                  | <b>\$18,772</b>                     | <b>\$92,717</b>               | <b>\$18,772</b> |
| <i>FY13/14</i>                                                          | \$65,000         | \$65,000         | \$4,705                                        | \$20,731                       | \$5,597                        | \$17,857                                          | \$2,321                             | \$11,466                      | \$2,321         |

100.000%

| Phase 2 Support                                               |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|---------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| Shared Equally Between Participating Member Agencies          | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| Program Development (60% of \$221,110 total) - Bryant         | 397,998          | 397,998          | 56,857                                         | 56,857                         | 56,857                         | 56,857                                            | 56,857                              | -                             | -              | 56,857              | 56,857                                  |
| Federal Advocacy (70% of \$157,900 total) - TFG sub to Bryant | 331,590          | 331,590          | 47,370                                         | 47,370                         | 47,370                         | 47,370                                            | 47,370                              | -                             | -              | 47,370              | 47,370                                  |
| <b>Total</b>                                                  | <b>\$729,588</b> | <b>\$729,588</b> | <b>\$104,227</b>                               | <b>\$104,227</b>               | <b>\$104,227</b>               | <b>\$104,227</b>                                  | <b>\$104,227</b>                    | <b>\$0</b>                    | <b>\$0</b>     | <b>\$9,000</b>      | <b>\$104,227</b>                        |
| <i>FY13/14</i>                                                | \$63,000         | \$63,000         | \$9,000                                        | \$9,000                        | \$9,000                        | \$9,000                                           | \$9,000                             | \$0                           | \$0            | \$9,000             | \$9,000                                 |

| Phase 2 Feasibility Study - Three Years                           |                    |                    |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|-------------------------------------------------------------------|--------------------|--------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
| 25% Shared Equally / 75% Shared on Basis of Phase 2 Project Costs | Total Budget       | NBWR<br>Share      | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Phase 2 Feasibility Study</i>                      |                    |                    | 11.398%                                        | 20.578%                        | 16.467%                        | 5.462%                                            | 12.965%                             | 0.000%                        | 0.000%         | 24.957%             | 8.172%                                  |
| Engineering, Environmental, and Outreach Services - B&C           | 3,841,074          | 3,841,074          | 437,805                                        | 790,415                        | 632,507                        | 209,794                                           | 498,014                             | -                             | -              | 958,636             | 313,904                                 |
| SCWA Administration - Grants and EIR/EIS                          | 450,000            | 450,000            | 51,291                                         | 92,601                         | 74,101                         | 24,578                                            | 58,345                              | -                             | -              | 112,309             | 36,775                                  |
| <b>Total</b>                                                      | <b>\$4,291,074</b> | <b>\$4,291,074</b> | <b>\$489,096</b>                               | <b>\$883,016</b>               | <b>\$706,608</b>               | <b>\$234,372</b>                                  | <b>\$556,358</b>                    | <b>\$0</b>                    | <b>\$0</b>     | <b>\$1,070,945</b>  | <b>\$350,680</b>                        |
| <i>FY13/14</i>                                                    | \$208,355          | \$208,355          | \$29,765                                       | \$29,765                       | \$29,765                       | \$29,765                                          | \$29,765                            | \$0                           | \$0            | \$29,765            | \$29,765                                |

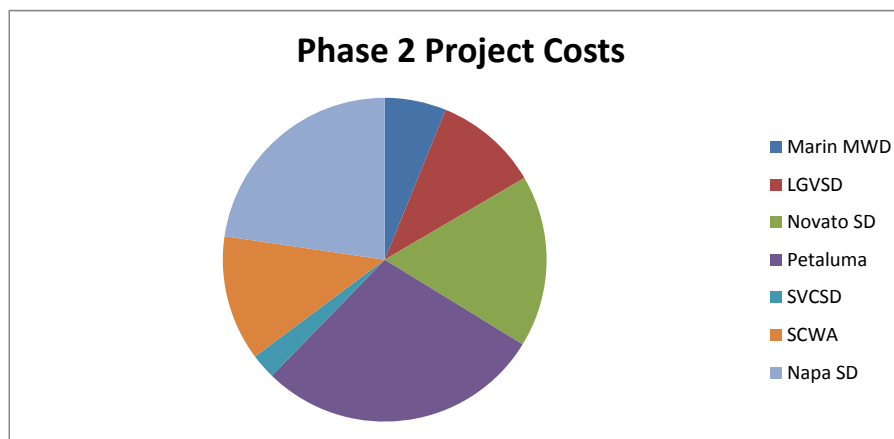
| Joint Use                                                                |                  |                  |                                                |                                |                                |                                                   |                                     |                               |                 |                     |                                         |
|--------------------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|-----------------|---------------------|-----------------------------------------|
| 25% Shared Equally / 75% Shared on Basis of Phase 1 plus Phase 2 Benefit | Total Budget     | NBWR<br>Share    | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County  | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>Percent for Joint Use</i>                                             |                  |                  | 9.248%                                         | 23.474%                        | 13.112%                        | 11.845%                                           | 9.109%                              | 7.365%                        | 2.778%          | 17.191%             | 5.879%                                  |
| Program Management - Weir                                                | 244,000          | 244,000          | 22,566                                         | 57,277                         | 31,993                         | 28,902                                            | 22,226                              | 17,970                        | 6,778           | 41,946              | 14,344                                  |
| State Advocacy - The Onate Group (Sub to Bryant)                         | 204,000          | 204,000          | 18,866                                         | 47,887                         | 26,748                         | 24,164                                            | 18,582                              | 15,024                        | 5,667           | 35,069              | 11,992                                  |
| SCWA Administration                                                      | 450,000          | 450,000          | 41,617                                         | 105,633                        | 59,003                         | 53,302                                            | 40,990                              | 33,142                        | 12,500          | 77,359              | 26,453                                  |
| <b>Total</b>                                                             | <b>\$898,000</b> | <b>\$898,000</b> | <b>\$83,049</b>                                | <b>\$210,797</b>               | <b>\$117,745</b>               | <b>\$106,367</b>                                  | <b>\$81,798</b>                     | <b>\$66,136</b>               | <b>\$24,944</b> | <b>\$154,374</b>    | <b>\$52,789</b>                         |
| <i>FY13/14</i>                                                           | \$586,000        | \$586,000        | \$65,111                                       | \$65,111                       | \$65,111                       | \$65,111                                          | \$65,111                            | \$65,111                      | \$65,111        | \$65,111            | \$65,111                                |

Prior Split was equal shares

| Total Cost per Agency for FY2014/15, FY2015/16, and FY2016/17 |              |               |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
|---------------------------------------------------------------|--------------|---------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------------------|----------------|---------------------|-----------------------------------------|
|                                                               | Total Budget | NBWR<br>Share | Las Gallinas<br>Valley<br>Sanitary<br>District | Napa<br>Sanitation<br>District | Novato<br>Sanitary<br>District | Sonoma Valley<br>County<br>Sanitation<br>District | Sonoma<br>County<br>Water<br>Agency | North Marin<br>Water District | Napa<br>County | City of<br>Petaluma | Marin<br>Municipal<br>Water<br>District |
| <i>FY14/15 Proposed</i>                                       | \$6,444,268  | \$6,444,268   | \$714,420                                      | \$1,365,679                    | \$973,840                      | \$589,365                                         | \$761,155                           | \$158,853                     | \$43,716       | \$1,329,546         | \$507,696                               |
| <i>FY13/14</i>                                                | \$922,355    | \$922,355     | \$108,581                                      | \$124,607                      | \$109,473                      | \$121,733                                         | \$106,198                           | \$76,577                      | \$67,433       | \$103,876           | \$103,876                               |
| <i>Difference</i>                                             | \$5,521,913  | \$5,521,913   | \$605,839                                      | \$1,241,071                    | \$864,367                      | \$467,632                                         | \$654,957                           | \$82,276                      | -\$23,716      | \$1,225,670         | \$403,819                               |
| Potential Federal Cost Sharing Reimbursement                  |              |               | \$2,145,537                                    | \$244,548                      | \$441,508                      | \$353,304                                         | \$117,186                           | \$278,179                     | \$0            | \$0                 | \$535,472                               |
| Potential Net Cost to NBWRA                                   |              |               | \$4,298,731                                    | \$469,872                      | \$924,171                      | \$620,536                                         | \$472,179                           | \$482,976                     | \$158,853      | \$43,716            | \$794,074                               |
| Difference from FY13/14                                       |              |               |                                                |                                |                                |                                                   |                                     |                               |                |                     |                                         |
| Annual Cost if split equally over three years (w/o fed)       |              |               | \$2,148,089                                    | \$238,140                      | \$455,226                      | \$324,613                                         | \$196,455                           | \$253,718                     | \$52,951       | \$443,182           | \$169,232                               |

**Feasibility Study Percent Calculations**

| Member Agency | 25% Split Equally | Phase 2 Project Costs | 75% Split based on Total Project Costs | Total of Percentages | 3-Yr Feasibility Study Costs | Study Cost per Million Dollars of Projects |
|---------------|-------------------|-----------------------|----------------------------------------|----------------------|------------------------------|--------------------------------------------|
| Marin MWD     | 3.571%            | \$12,680,000          | 4.601%                                 | 8.172%               | \$350,680                    | \$27,656                                   |
| LGVSD         | 3.571%            | \$21,570,000          | 7.827%                                 | 11.398%              | \$489,096                    | \$22,675                                   |
| Novato SD     | 3.571%            | \$35,540,000          | 12.896%                                | 16.467%              | \$706,608                    | \$19,882                                   |
| Petaluma      | 3.571%            | \$58,940,000          | 21.386%                                | 24.957%              | \$1,070,945                  | \$18,170                                   |
| SVCSD         | 3.571%            | \$5,210,000           | 1.890%                                 | 5.462%               | \$234,372                    | \$44,985                                   |
| SCWA          | 3.571%            | \$25,890,000          | 9.394%                                 | 12.965%              | \$556,358                    | \$21,489                                   |
| Napa SD       | 3.571%            | \$46,870,000          | 17.007%                                | 20.578%              | \$883,016                    | \$18,840                                   |
| <b>TOTAL</b>  | <b>25.000%</b>    | <b>\$206,700,000</b>  | <b>75.000%</b>                         | <b>100.000%</b>      | <b>\$4,291,075</b>           | <b>\$20,760</b>                            |







February 6, 2013

Senator Fran Pavley  
Chair, Senate Natural Resources and Water Committee  
State Capitol  
Sacramento, CA 95814

**RE: WATER BOND COALITION SUPPORT FOR SB 848**

Dear Senator Pavley:

The Water Bond Coalition, an affiliation of more than 40 counties, cities, special districts and nonprofit organizations from northern and coastal California communities, thanks you for your leadership on the 2014 water bond. Overall, SB 848 by Senator Lois Wolk presents a water bond proposal that is fiscally responsible, provides support for built and natural water management infrastructure, and ensures parity in the distribution of water bond funds, putting dollars to work to meet water-related needs in every part of the State.

Specifically, the Coalition appreciates the inclusion of the following funding provisions:

- A \$2 billion re-invigoration of the Integrated Regional Water Management Program. This program incentivizes regional coordination between water suppliers, flood control agencies, sanitation districts, other local entities, non-profits, and tribal groups, and holds tremendous promise for helping our communities ensure long-term sustainable water management. The Coalition also appreciates the recent addition of \$500 million within the IRWM program framework for stormwater management projects. We also appreciate recent amendments to clarify a 25% local match requirement for these state funds.
- \$30 million to assist the Resource Conservation District Community in its on-the-ground work to help local agencies and private landowners protect CA's drinking water quality, ecosystems, watersheds, and working landscapes. RCDs are special districts and agents of the state charged with providing CA's rural and urban communities with technical assistance, water management project implementation, and conservation education/outreach. We are concerned, however, that the current language would direct these important funds to a regulatory agency (State Water Board), and previous experience suggests that these funds will be most effective if overseen by a non-regulatory agency, such as the Department of Conservation or the Natural Resources Agency.
- \$25 million to assist with the management of agricultural water run-off issues. This funding will help our rural communities and farmers contribute to the protection of our state's rivers, streams, and groundwater basins. We have the same concerns about these funds as with the

funding provision described above. We respectfully request that the Natural Resource Agency or the Department of Conservation oversee these funds.

- Significant funding for key state conservancies, such as the State Coastal Conservancy (\$350 million) and the Sierra Nevada Conservancy (\$65 million). Coastal Conservancy funding dedicated to coastal fishery restoration (\$50 million) will help us reduce conflicts between our water systems and our fisheries and will help restore populations of threatened and endangered fish species.

Thank you for your work on this critically important legislation and for the opportunity to comment and provide input. We look forward to continued work regarding our suggested amendments, and please contact Lisa Renton at the Water Bond Coalition if you have any questions or concerns.

[lisarentonconsulting@gmail.com](mailto:lisarentonconsulting@gmail.com)



**WATER BOND COALITION MEMBERS 02.06.14**

County of Monterey

Monterey County Water Resources Agency

County of Sonoma

Sonoma County Water Agency

Sonoma Valley CSD

Russian River CSD

South Park CSD

Occidental CSD

Valley of the Moon Water District

Hidden Valley Lake Water District

City of Santa Rosa

Santa Rosa Board of Public Utilities

Humboldt Bay Municipal Water District

County of Santa Cruz

North Marin Water District

Soquel Creek Water District

County of Humboldt

City of Ukiah

City of Healdsburg

Pajaro Valley Water Management Agency

Santa Cruz County Resource Conservation District

Freedom Sanitation District

Davenport Sanitation District

City of Rohnert Park

Russian River Watershed Association

City of Cloverdale

North Bay Watershed Association

Town of Windsor

City of Sonoma

County of Marin

City of Watsonville

Marin Municipal Water District

City of Cotati

Gold Ridge Resource Conservation District

North Bay Water Reuse Authority

Castroville CSD

Novato Sanitary District

Sonoma RCD

County of Ventura

Napa County Resource Conservation District

**Pending Approval of Upcoming Resolutions**

Ventura County Watershed Protection District

Ventura County Waterworks District No. 1

Ventura County Waterworks District No. 16

Ventura County Waterworks District No. 19

Central Water District

County of Trinity

Santa Ynez Valley Water Conservation and Improvement District No. 1

Contra Costa County

Contra Costa Flood Control and Water Conservation District

Heal the Ocean

Cachuma Resource Conservation District

City of Oxnard

San Mateo Resource Conservation District



January 8, 2014

The Honorable Lois Wolk  
 California State Senate  
 State Capitol, Room 5114  
 Sacramento, CA 95814

RE: SB 848 (Wolk) Mock-Up as Proposed to be Amended by Author

Concerns and Proposed Amendments

Dear Senator Wolk:

On behalf of WaterReuse California, I am writing regarding the Mock-Up of SB 848 to express our concern for the lack of more direct state investment partnerships in local water recycling projects. I have attached amendments to the bill creating a stand alone Chapter for recycling.

WaterReuse California has previously provided the Legislature the association's Water Bond Principles. Now in this severe drought, we stand by our call for state assistance for recycling projects that can be expedited in review and construction to create new water supply. Expanding recycling, which is not dependent on precipitation, is critical to stabilizing the state's water supply.

To summarize, water recycling should remain eligible for funding where noted in SB 848 but be given a stand alone chapter in the bond similar to that included in the Bond Act currently on the ballot this November. At this time we propose at least \$500 million funding level for the stand alone program. The bond should fund a recycling program similar to the existing program administered by the State Water Resources Control Board (Board); clearly define the types of projects that can be funded; maintain competitive, geographic allocation and provide both grants and loans.

Currently, more than 3.5 million acre-feet (AF) of recyclable water is discharged to the ocean each year. Not only can this resource be recovered and reused to reduce pressure on limited water supplies within the next 5 years, but doing so would also require much lower energy demands than some other alternative water supply sources.

In March 2012 the Assembly Committee on Water, Parks and Wildlife held an informational hearing on recycled water issues and found "Fortunately, the level of supplies that could potentially be derived from recycled water is substantial. The National Academy of Sciences, in its recent report: *Water Reuse: Potential for Expanding the Nation's Water Supply Through Reuse of Municipal Wastewater* states that in the U.S. approximately 12 billion gallons of municipal wastewater effluent is

***Recycling Water to Meet the World's Needs***

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*California Section Office:* 621 Capitol Mall, 25th Floor • Sacramento, California 95814 • 916 669-8401 • 916 720-0331 (fax)

www.watereuse.org

February 14, 2014

Page 2

discharged each day to an ocean or estuary and that reusing these coastal discharges could directly augment public supply by 27 percent. Unlike water that is discharged into a stream and potentially used by another downstream party, water discharged to the ocean is considered "irrecoverable" and thus constitutes 'new' supply."

Consider the historical and institutional support for recycling. The Legislature created the 2002 Recycled Water Task Force to identify impediments to recycling and make recommendations to help the state meet the water needs of 2030. This multi-agency, public process made strong recommendations that are more compelling today than when first presented to the Legislature. The Task Force found that an additional 1.5 million AFY could be recycled by 2030 at a cost of \$11 billion in a partnership between the state and local entities. Advances in science and technology have substantially reduced the cost of water recycling since issuance of the report.

In 2010, the Recycled Water Policy adopted by the Board included a goal of creating an additional 2.5 MAF of recycled water per year by 2030. The Board administers the competitive Water Recycling Funding Program (WRFP). As far back as 2005, the WRFP "Competitive Project List" (CPL) included 87 projects in 50 jurisdictions, located in 15 counties, awaiting funding. These project sponsors applied for past bond funds and were evaluated and prioritized by the Board. A few of those have been funded and are no longer on the list. But since 2005 the Board has awarded planning grants to 77 additional projects statewide that will apply for the next round of state assistance. This sort of recycled water-focused program is critical to ensuring that optimal, expedited benefit is gained from state assistance and that quality projects gain funding.

Please consider amending SB 848 to include a separate Chapter for competitive state assistance for local recycling projects. For more information please feel free to call me or our lobbyist, Richard Harris at Nossaman LLP, 916.442-8888. Thank you.

Sincerely,



David W. Smith, PhD  
Managing Director

cc: Senator Fran Pavley, Chair, Senate Natural Resources and Water Committee  
Members of the Senate Natural Resources and Water Committee

## Water Bond Comparison – February 2014

| Funding Category                                 | AB 1331 (Rendon)<br>\$6.5 Billion                                                                                                                                                                                                                                                                                                                                                                        | SB 848 (Wolk)<br>\$6.825 Billion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SB 927 (Cannella) – \$9.217 Billion<br>Amendments to 2009 Bond                                                                                                                                                            |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clean and Safe Drinking Water</b>             | <b>\$1 Billion</b>                                                                                                                                                                                                                                                                                                                                                                                       | <b>\$900 Million</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>No Section on Drinking Water<br/>Groundwater Cleanup \$1 Billion</b>                                                                                                                                                   |
|                                                  | <ul style="list-style-type: none"> <li>• Disadvantaged Communities \$400M</li> <li>• Emergency Clean Water \$100 M</li> <li>• Small Community Wastewater \$400M</li> <li>• Groundwater Cleanup \$100 M</li> </ul>                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>• Drinking Water \$400 M</li> <li>• Emergency Clean Water \$100 M</li> <li>• Small Community Wastewater \$400 M                             <ul style="list-style-type: none"> <li>○ Private Wells \$20 M</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                           |
| <b>Protecting Rivers, Coast &amp; Watersheds</b> | <b>\$1.5 Billion</b>                                                                                                                                                                                                                                                                                                                                                                                     | <b>\$1.7 Billion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>None – Deleted</b>                                                                                                                                                                                                     |
|                                                  | <ul style="list-style-type: none"> <li>• State Obligations \$500 M</li> <li>• Conservancies \$250 M</li> <li>• Unspecified Regional Amounts \$750 M</li> </ul>                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• State Obligations \$500 M                             <ul style="list-style-type: none"> <li>○ 3 specific project allocations</li> </ul> </li> <li>• Earmarks \$875 M                             <ul style="list-style-type: none"> <li>○ 9 Conservancies</li> <li>○ Wildlife Conservation Board</li> <li>○ Ocean Protection Council</li> </ul> </li> <li>• Urban Watersheds \$250 M                             <ul style="list-style-type: none"> <li>○ Via Resources Agency</li> </ul> </li> <li>• State Park Water Quality \$25 M</li> <li>• Resource Conservation Dist. \$30M</li> <li>• Agricultural Runoff \$25 M</li> </ul> |                                                                                                                                                                                                                           |
| <b>Regional Water Projects</b>                   | <b>\$1.5 Billion</b>                                                                                                                                                                                                                                                                                                                                                                                     | <b>\$2 Billion (Water Enhancement)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Retains Separate Chapters on:</b>                                                                                                                                                                                      |
|                                                  | <ul style="list-style-type: none"> <li>• IRWM (\$1 B, allocated by region)                             <ul style="list-style-type: none"> <li>○ water conservation, stormwater</li> <li>○ priority for innovation</li> </ul> </li> <li>• Recycled Water \$500 M</li> </ul>                                                                                                                               | <ul style="list-style-type: none"> <li>• IRWM (\$1.4 B, allocated by region)</li> <li>• IRWM Innovation \$100 M</li> <li>• Stormwater \$500 M</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• Regional Water \$1.39 B</li> <li>• Drought Relief \$327 M</li> <li>• Water Recycling \$1.25 B</li> </ul>                                                                         |
| <b>Delta Sustainability</b>                      | <b>\$1 Billion (unallocated)</b>                                                                                                                                                                                                                                                                                                                                                                         | <b>\$1.2 Billion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>\$2.25 Billion</b>                                                                                                                                                                                                     |
|                                                  | <ul style="list-style-type: none"> <li>• Delta Levees</li> <li>• Ecosystem Restoration</li> <li>• Delta Sustainability</li> <li>• Silent on BDCP</li> </ul>                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>• Delta Conservancy \$800 M                             <ul style="list-style-type: none"> <li>○ at least \$500 M for water quality and habitat restoration</li> </ul> </li> <li>• Delta Levees \$400 M</li> <li>• Silent on BDCP</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• Delta Sustainability \$750 M</li> <li>• Ecosystem Restoration \$1.5 B                             <ul style="list-style-type: none"> <li>○ including BDCP</li> </ul> </li> </ul> |
| <b>Water Storage</b>                             | <b>\$1.5 Billion (unallocated)</b>                                                                                                                                                                                                                                                                                                                                                                       | <b>\$1.025 Billion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>\$3 Billion</b>                                                                                                                                                                                                        |
|                                                  | <ul style="list-style-type: none"> <li>• Surface and Groundwater Storage                             <ul style="list-style-type: none"> <li>○ including groundwater cleanup</li> </ul> </li> <li>• Restoring Existing Storage Capacity                             <ul style="list-style-type: none"> <li>○ earthquakes, sediment</li> </ul> </li> <li>• Specified Appropriations for 5 Years</li> </ul> | <ul style="list-style-type: none"> <li>• Storage Projects \$1 B</li> <li>• DWR Surface Storage Studies \$25 M</li> <li>• No Continuous</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Surface and Groundwater Storage</li> <li>• Continuous Appropriation</li> <li>• Broad Definition of Public Benefits</li> </ul>                                                    |



**Chuck Weir**

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**Subject:** FW: SRF Ready to Help Agencies Provide Drought Relief

**From:** Dave Smith [<mailto:dsmith@watereuse.org>]  
**Sent:** Friday, February 14, 2014 09:12 AM  
**Subject:** SRF Ready to Help Agencies Provide Drought Relief

State Revolving Fund (SRF) may quickly become a more attractive funding option for your recycled water projects, especially if they are ready to move forward in the next one to three years. WateReuse California, CASA, and the Western Recycled Water Coalition have been meeting with key SRF program staff in an effort to ensure that shovel-ready recycled water projects can receive expedited funding on favorable terms to create new water supplies as part of drought response. The specific terms of the financing are still being worked out, but we are advocating that eligible projects receive zero percent loans with 30-year terms, flexible repayment schedule, and flexible loan subordination terms compatible with your existing bond portfolio. We have also requested that the Water Board streamline the path to approval. The staff expects to bring its recommendations for recycled water funding criteria and terms to the State Water Board for approval on March 18th, but encourages applicants to begin the process now.

Applications can be filed online. For the application form, instructions and additional information are available on the SRF Program Website:

[http://www.waterboards.ca.gov/water\\_issues/programs/grants\\_loans/srf/srf\\_forms.shtml](http://www.waterboards.ca.gov/water_issues/programs/grants_loans/srf/srf_forms.shtml)

The national survey and follow up research conducted by the recycling community indicate projects sufficiently far along in development that California can realize an additional 225,000 acre feet of sustainable water supply in the next one to three years with \$1 billion in investment.

Please contact me if you want to learn more.

Dave

Dave Smith  
Managing Director,  
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**Prop 84 Round 3 Regional Submittal Information for BACWA**  
**North Bay Water Reuse Authority - North Bay Water Reuse Program**  
 2/10/14

| Item | Info Needed                                                                                                                                  | Response to Info Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Project Name                                                                                                                                 | North Bay Water Reuse Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|      | Project Location                                                                                                                             | Marin County, Sonoma County, Napa County. The NBWRP area encompasses approximately 318 square miles of land within Marin, Sonoma, and Napa Counties. This region extends some 10 to 15 miles inland of the tidal San Pablo Bay, with a total population of over 270,000 in the major urban centers of San Rafael, Novato, Petaluma, Sonoma, and Napa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|      | Project Description                                                                                                                          | <p>The NBWRP is a cooperative program in the San Pablo Bay region that supports sustainability and environmental enhancement by expanding the use of recycled water. The purpose of the NBWRP is to provide recycled water for agricultural, urban, and environmental uses thereby reducing reliance on local and imported surface and groundwater and reducing the amount of treated effluent releases to North San Pablo Bay. The NBWRA member agencies are Marin Municipal Water District (MMWD), Marin County, Las Gallinas Valley Sanitary District (LGVSD), North Marin Water District (NMWD), Novato Sanitary District (Novato SD), City of Petaluma, Sonoma Valley County Sanitation District (SVCS), Sonoma County Water Agency (SCWA), Napa Sanitation District (Napa SD), and Napa County.</p> <p>The NBWRP components included in this grant application are:</p> <ul style="list-style-type: none"> <li>- LGVSD - Recycled Water Facility Capacity Upgrade: increase tertiary treatment capacity by 4.7 mgd at existing facility.</li> <li>- Novato SD/NMWD - Novato Central Service Area: modify existing Novato SD recycled water facility and construct 4 miles of new recycled water distribution pipelines to serve 250 AFY for landscaping in Novato.</li> <li>- SVCS - Sonoma Valley Recycled Water Project: construct 9 miles of pipelines to serve 735 AFY for restoration of the Napa-Sonoma Marsh, agricultural irrigation, and industrial use (over four project areas).</li> <li>- Napa SD - Los Carneros Water District Recycled Water Distribution System: construct recycled water distribution pipelines to serve 1,600 AFY for agricultural and landscape irrigation.</li> <li>- Napa SD - Miliken-Sarco-Tulocay Area Recycled Water System: construct 4.5 miles of pipeline to serve 350-700 AFY for agricultural and landscape irrigation.</li> <li>- Napa SD - expand recycled water pump station to increase recycled water deliveries from 2,000 AFY to 3,700 AFY.</li> <li>- Napa SD - Recycled Water Finishing Pond Lining: line Napa SD's two finished recycled water ponds, increasing storage capacity by 6 AF.</li> </ul> |
|      | Project Yield                                                                                                                                | 3,285 AFY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|      | Lead Agency                                                                                                                                  | North Bay Water Reuse Authority                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|      | Primary Contact - Name, Agency, Email, Phone                                                                                                 | Kevin Booker, Sonoma County Water Agency (SCWA is the administrative agency for the NBWRA), Kevin.Booker@scwa.ca.gov, 707-521-1865                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|      | Project Partners                                                                                                                             | Additional partners, outside of the NBWRA member agencies, for the 10 projects included in this grant application are Marin County Open Space, McInnis Marsh Habitat Restoration Project, Los Carneros Water District.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|      | Is project in 2013 Plan?                                                                                                                     | 8 of the 10 project components were included in the NBWRP's project description in the 2013 Plan. Two project components will need to be added to the North Bay Water Reuse Program's description.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3    | Is CEQA complete?                                                                                                                            | CEQA is complete for 8 of the 10 projects. Two projects have not yet completed CEQA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|      | Can project be completed within 5 years from 2016?                                                                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      | CEQA schedule                                                                                                                                | CEQA is complete for 8 of the 10 projects. CEQA will be completed for the two remaining projects by July 2014.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|      | Design Schedule                                                                                                                              | Design is complete for 2 of the 10 projects. For the other 8 projects, the design period will range from now through 2018, with the bulk of design taking place in 2014 through 2016.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|      | Construction Schedule                                                                                                                        | The construction period will span from April 2014 through 2020, with the bulk of construction taking place in 2015 through 2017.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4    | Can you provide 25% local match funding?                                                                                                     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      | Estimated Project Cost                                                                                                                       | \$55,150,000 - \$57,150,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5    | What are the measurable project physical benefits?                                                                                           | These projects under the NBWRP will provide 3,285 AFY of recycled water supply to the North Bay Area. This recycled water use offsets potable water from the Russian River and the City of Napa's sources, surface water diversions from local creeks, and groundwater use in Sonoma and Napa Counties, where overdraft and saline intrusion are issues. Treatment facility upgrades and storage increases will improve the reliability of the recycled water delivery systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6    | Can you provide cash for consultant to prepare the regional grant application in FY15? About \$10K to \$25K per agency.                      | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 7    | Can you provide project benefit/cost analysis information in summer/fall 2014?                                                               | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 8    | Which regional priorities can your project meet? See suite of regional priority needs listed in the Request for Regional Concept Submittals. | Reinforce/Enhance Water Supply Capacity<br>Regional Water Reliability/Long-Term Sustainability<br>Health of Bay and Creeks<br>Protection of Water Source Areas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|      | Describe how your project is regional in scope. Describe regional collaboration.                                                             | The NBWRP is a cooperative program in the San Pablo Bay region that supports sustainability and environmental enhancement by expanding the use of recycled water. As the North Bay region has no new surface water or groundwater supplies, the best near-term, reliable, regional water supply will be recycled water. The NBWRA is established under a Memorandum of Understanding between ten agencies across three counties. The NBWRA undertook cooperative, regional planning efforts to develop the NBWRP. Phase 1 of the NBWRP, as authorized in P.L. 111-11 Section 9110, is currently under design and construction by the NBWRA member agencies. When complete, Phase 1 will provide up to 5,400 AFY of tertiary treated recycled water to the North San Pablo Bay for irrigation demands and habitat restoration. The NBWRA has begun to study a "Phase 2" of the NBWRP to explore options for expanded recycled water use and, as feasible, to develop a program to facilitate additional recycled water use within the North San Pablo Bay region and address multi-benefit regional projects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 9    | Which functional areas are addressed by your project?                                                                                        | Wastewater & Recycled Water<br>Water Supply & Water Quality<br>Watershed Management-Habitat Protection & Restoration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 10   | Does project span multiple sub-regions? List subregion(s).                                                                                   | Project is only in the North Subregion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 11   | Does your project include benefits to disadvantaged communities? Please describe.                                                            | No disadvantaged communities are within the project area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |