



**NORTH MARIN WATER DISTRICT**  
**AGENDA - REGULAR MEETING**  
 February 18, 2014 – 7:30 p.m.  
 District Headquarters  
 999 Rush Creek Place  
 Novato, California

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<b>Est. Time</b>	<b>Item</b>	<b>Subject</b>
7:30 p.m.	<b>CALL TO ORDER</b>	
	1. <b>APPROVE MINUTES FROM REGULAR MEETING</b> , February 4, 2014	
	2. <b>GENERAL MANAGER'S REPORT</b>	
	3. <b>OPEN TIME: (Please observe a three-minute time limit)</b>	
		This section of the agenda is provided so that the public may express comments on any issues not listed on the agenda that are of interest to the public and within the jurisdiction of the North Marin Water District. When comments are made about matters not on the agenda, Board members can ask questions for clarification, respond to statements or questions from members of the public, refer a matter to staff, or direct staff to place a matter of business on a future agenda. The public may also express comments on agenda items at the time of Board consideration.
	4. <b>STAFF/DIRECTORS REPORTS</b>	
	5. <b>MONTHLY PROGRESS REPORT</b>	
		<b>CONSENT CALENDAR</b>
		The General Manager has reviewed the following items. To his knowledge, there is no opposition to the action. The items can be acted on in one consolidated motion as recommended or may be removed from the Consent Calendar and separately considered at the request of any person.
	6. <b>Consent - Approve</b> Employee Handbook February 2014 Revision and New Supervisor Handbook	
		<b>ACTION CALENDAR</b>
	7. <b>Approve:</b> AEEP Reaches A-D/MSN B3 Project: Award Construction Contract to Ghilotti Construction	
	8. <b>Approve:</b> Utility Agreement between the State of California and North Marin Water District for Caltrans' MSN B3 and NMWD's AEEP Reach A-D Projects	
		<b>INFORMATION ITEMS</b>
	9. Preparing for Dry Year Conditions	
	10. Rate Increase Considerations	
	11. 2014 Urban Area Water Cost Comparison	
	12. Mid Year Operations/Maintenance, 2013/14 Update	

All times are approximate and for reference only.

The Board of Directors may consider an item at a different time than set forth herein.

(Continued)

13. Second Quarter FY 13/14 – Water Quality Report
14. SCWA Updated Water Shortage Allocation Model
15. Proposed FY15 SCWA Budget
16. **MISCELLANEOUS**  
Disbursements  
2014 Flushing Program Update  
Service Charge Analysis  
Letter to Beverly James re: Recycled Water Commitment  
Press Release re: Gallagher Well Grant

News Articles:

Emphatically No!

Novato to store water for the rest of Marin to maximize supplies in dry year

Marin Voice: Time for Marin to reconsider desal?

Novato residents asked to cut water use by 20 percent

- 9:00 p.m. 17. **ADJOURNMENT**

1

1   **DRAFT**  
2   **NORTH MARIN WATER DISTRICT**  
3   **MINUTES OF REGULAR MEETING**  
4   **OF THE BOARD OF DIRECTORS**  
5   February 4, 2014

6     **CALL TO ORDER**

7             President Rodoni called the regular meeting of the Board of Directors of North Marin Water  
8 District to order at 7:30 p.m. at the District headquarters and the agenda was accepted as  
9 presented. Present were Directors Jack Baker, Rick Fraitas, Stephen Petterle, Dennis Rodoni and  
10 John Schoonover. Also present were District Secretary Katie Young, Auditor-Controller David  
11 Bentley and Chief Engineer Drew McIntyre. General Manager Chris DeGabriele was absent.

12            Novato Resident, Robert Koch, Pt. Reyes National Seashore Lodge Owner, Jeff Harriman,  
13 and District employees Ryan Grisso (Water Conservation Coordinator) and Robert Clark  
14 (Operations/Maintenance Superintendent) were in the audience.

15     **MINUTES**

16            On motion of Director Schoonover, seconded by Director Baker and unanimously carried the  
17 Board approved the minutes from the previous meeting as presented.

18     **GENERAL MANAGER'S REPORT**

19            Acting General Manager, Drew McIntyre reported that bids for the Aqueduct Energy  
20 Efficiency Project Reach A-D had opened on Friday and the District received four bids. He stated  
21 that the engineers estimate for the project was \$14.6M and the lowest bid was \$12.3M. He informed  
22 the Board that he would report more information at a future meeting and that staff is allowing bidders  
23 to have five business days to protest and then staff will review the bids.

24            Director Baker asked who the low bidder was. Mr. McIntyre responded Ghilotti Construction.

25     **OPEN TIME**

26            President Rodoni asked if anyone in the audience wished to bring up an item not on the  
27 agenda and the following items were discussed:

28            Novato Resident, Robert Koch from Santolina Drive stated that he was attending the  
29 meeting to express his concern that people who are already conserving as much water as they can  
30 may be punished for not being able to conserve more when asked by the District.

31            President Rodoni stated that the entire Board has concerns about that issue and that they  
32 are going to figure out a way to be fair to all customers. He mentioned looking at the conservation

1 collectively as a whole and looking into other options. He informed Mr. Koch that customers who are  
2 already conserving will not be punished.

3 **STAFF / DIRECTORS' REPORTS**

4 President Rodoni asked if staff or Directors wished to bring up an item not on the agenda  
5 and the following items were discussed:

6 Robert Clark informed the Board that backfilling of Stafford Lake had begun and the water  
7 will give the District a month of production during the summer.

8 **CONSENT CALENDAR**

9 On the motion of Director Petterle, seconded by Director Schoonover and unanimously  
10 carried, the following items were approved on the consent calendar:

11 **WATER SERVICE AGREEMENT – KOCH SINGLE FAMILY HOME (67 MESA RD)**

12 The Koch single family home project at 67 Mesa Rd. Point Reyes Station consists of a new  
13 750 square foot residence on a vacant lot. Water facilities required include one new 1-inch domestic  
14 water meter, 25 feet of 6-inch fire hydrant lateral and one residential fire hydrant. The Board  
15 approved the authorization of the water service agreement.

16 **PROPOSED FY14/15 BUDGET REVIEW SCHEDULE**

17 The Board approved the proposed budget review schedule for FY14/15.

18 **PROPOSED FY14/15 RATE HEARING SCHEDULE**

19 The Board approved the proposed rate hearing schedule for FY14/15.

20 **NEW CREW TRUCK PURCHASE**

21 Staff solicited bids for a new dump truck and received three bids. All of the bidders came in  
22 under the \$110,000 estimate. The low bid proposed by Peterson Truck met the minimum  
23 specifications and can deliver in mid-May. The Board authorized staff to award the purchase  
24 contract for the new dump truck to Peterson Trucks Inc. for a total of \$107,328.34.

25 **ACTION CALENDAR**

26 **REQUEST FOR ADDITIONAL BILL ADJUSTMENT – PT REYES NATIONAL SEASHORE**  
27 **LODGE – JEFF HARRIMAN**

28 David Bentley informed the Board that the owner of Pt. Reyes National Seashore Lodge,  
29 Jeff Harriman, has requested an additional adjustment on his bill beyond District policy. He stated  
30 that Mr. Harriman received a bill for \$7,713 due to a broken irrigation line. He stated that the normal  
31 bill during the same period time is \$168. Mr. Bentley informed the Board that in accordance with  
32 District policy Mr. Harriman received a bill adjustment of \$5,709, reducing his bill to \$2,004. Mr.

1 Bentley informed the Board that Mr. Harriman argues that the District did not notify him of the leak in  
2 a timely manner, thus the leak continued three days longer than had Mr. Harriman been notified  
3 immediately. Mr. Bentley provided the Board with a chronology of the events taken place regarding  
4 the leak. Staff recommended that The Pt. Reyes Seashore received the normal adjustment amount  
5 authorized under the Bill Adjustment Policy as already granted. Mr. Bentley said that if the Board  
6 believes that further adjustment of the bill is appropriate for the 3-day period, an additional credit of  
7 \$92 could be granted, based on the average daily use through the meter over the 60 day billing  
8 period.

9 Jeff Harriman, The Pt. Reyes National Seashore Lodge owner, stated that he has been a  
10 customer for over 28 years and he takes water conservation very seriously. He stated that he has  
11 four lots along Highway 1 and that the cabin that had a leak has been vacant during the off season.  
12 He stated that he did not receive a letter until December 11<sup>th</sup> and fixed the leak that day. He stated  
13 that when the meter reader read the meter and noticed the high usage he should have informed the  
14 customer that day.

15 Director Baker asked what happens when the field service representative is reading a meter  
16 and detects a leak.

17 Mr. Bentley stated that when reading a meter if the read is 50% above or below the previous  
18 read the device will beep, it does not say if it was a misread or a leak. He stated that before bills go  
19 out, the billing staff reviews the reads and then will notify a customer if usage is high. Mr. Bentley  
20 stated that an employee went out to the meter and wasn't able to tell which house owned the lots so  
21 he came back to the office and the customer was notified by letter. Mr. Bentley advised the Board  
22 that an employee then went out and spent an hour to locate the leak and assisted the customer.

23 Mr. Harriman suggested that the policy be revised on how to notify a customer of a leak.

24 Mr. Harriman stated that if the employee noticed the meter spinning that staff should have  
25 attempted to call and get a hold of the customer.

26 Director Fraites asked if the meter reading device goes off if the usage is higher than normal.  
27 Mr. Bentley replied yes but it does not tell you if it is higher or lower usage. Mr. Bentley stated that  
28 the meter was read on December 2<sup>nd</sup> and another employee was sent out on December 8<sup>th</sup> to re  
29 read the meter and said there was a leak, he wasn't sure who to contact so he returned to the office  
30 and staff sent a letter regarding the leak

1 Mr. Harriman informed the Board that he doesn't like wasting water and doesn't want to pay  
2 the bill and the District needs to come up with a better system and quicker way to notify the  
3 customers.

4 Director Fraites asked if the policy stated to notify the customer of a leak by mail. Mr. Bentley  
5 stated that the policy states to notify the customers at the door but the field service representative  
6 was unclear which property the meter was serving.

7 Director Pettele stated that he would consider an additional \$92 credit but that it was a lot of  
8 water and someone has to pay for it. He stated that ultimately customers are responsible for  
9 knowing what is happening with their meters.

10 On motion of Director Baker, seconded by Director Schoonover the Board authorized an  
11 additional credit of \$92 to The Point Reyes Seashore Lodge for an additional bill adjustment

12 Mr. Harriman thanked the Board and left the meeting.

13 Director Fraites suggested that the Board revisit the policy notification process.

14 Mr. Bentley stated that it is likely Mr. Harriman will be eligible for an adjustment on his next  
15 bill as well.

16 **GALLAGHER WELL AND PIPELINE PROJECT HYDROLOGIC DESIGN PLAN**

17 Mr. McIntyre reminded the Board that in August 2012 staff solicited consultants to develop  
18 the Gallagher Well and Pipeline Project Hydrologic Design Plan. He stated that PES Environmental  
19 Inc, (PES) was selected as the preferred consultant. He informed the Board that staff has  
20 coordinated with PES, the California Department of Fish and Wildlife and USGS regarding the gage  
21 location. Mr. McIntyre advised the Board that the District arranged for USGS to install a temporary  
22 auxiliary stream gage downstream of the Gallagher Well during August 2013 and an aquifer testing  
23 program along with comparative stream flow analysis was performed by PES in September 2013.

24 Mr. McIntyre informed the Board that the results from the consultant summarize that there is  
25 no difference in the stream flows in the existing temporary auxiliary gage and with that result Mr.  
26 DeGabriele prepared a letter to the California Department of Fish and Wildlife summarizing results  
27 and addressing the concerns of the stream flows on the well. Mr. McIntyre stated that Mr.  
28 DeGabriele explains that there should be a positive outcome from the review of the report.

29 President Rodoni asked if it was likely that the Department of Fish and Wildlife will request  
30 to leave the temporary gage in for monitoring. Mr. McIntyre responded that he didn't believe that  
31 would happen.

1 On motion of Director Schoonover, seconded by Director Fraites and unanimously carried,  
2 the Board accepted the PES Environmental, Inc. Hydrologic Design Plan for the Gallagher Well and  
3 Pipeline Project and authorized staff to transmit the plan to CDFW.

4 **GALLAGHER WELL PIPELINE PROJECT – APPROVE BID ADVERTISEMENT**

5 Mr. McIntyre reminded the Board that at the January 21<sup>st</sup> meeting the Board authorized the  
6 General Manager to act as the grant administrator and adopted the funding resolution for the  
7 Gallagher Well Pipeline Project. He noted that per the requirements of the agreement construction  
8 must commence within 120 days post the Funding Agreement Approval. Mr. McIntyre advised the  
9 Board that staff has received the fully executed funding agreement and would like authorization to  
10 advertise for bids. He stated that he will be speaking with Mr. DeGabriele upon his return to prepare  
11 a press release regarding this project. He noted that Carmela Chandrasekera has been working  
12 diligently on finalizing the plans and specs and will be advertizing the project next week.

13 Director Baker asked that Mr. McIntyre keep the Board posted and stated that it was going  
14 to be an attractive job.

15 On motion of Director Baker, seconded by Director Fraites and unanimously carried, the  
16 Board authorized bid advertisement of the Gallagher Well Pipeline construction project subject to  
17 the receipt of CDPH funding agreement approval.

18 **PURCHASE OF NEW PHONE SYSTEM**

19 Mr. Bentley informed the Board that he received proposals for a new phone system. He  
20 stated that the chosen proposal was from the Avaya Phone System and was \$16,000 plus an  
21 additional \$2,000 for programming. He noted that the programming would be a new accounting  
22 system that would link the caller to their profile on our system. Mr. Bentley stated that the program  
23 would be able to measure the peak calls and be able to record all of the calls. He advised the Board  
24 that each employee will have their own phone number that will go to the individual's desk instead of  
25 to the operator.

26 Director Schoonover asked if the cost in the estimate included the cost of the new business  
27 cards, phone books, etc. Mr. Bentley responded no.

28 President Rodoni asked if the District needed to warn customers that their information would  
29 be on the screen when they called for privacy issues. Mr. Bentley stated that he would look into that.

30 On motion of Director Fraites, seconded by Director Petterle and unanimously carried, the  
31 Board approved the purchase of the Avaya Phone System for a not-to-exceed cost of \$16,000  
32 (including a 5% contingency) plus \$2,000 for the T-1 PRI switch.



1 **STAFFORD LAKE AGREEMENT**

2 Mr. McIntyre reminded the Board that the General Manager has spoken about Marin  
3 Municipal Water District back feeding water into Stafford Lake and the potential agreement. He  
4 noted that the agreement is very similar to the 2009 agreement and does identify that Marin  
5 Municipal will pay the cost to get the water into the lake as well as the treatment of the water coming  
6 out of the Lake. Mr. McIntyre informed the Board that the agreement would terminate on April 30<sup>th</sup>  
7 unless 500AF is achieved prior to that.

8 Director Pettele asked if there was any financial impact on the District. Mr. McIntyre  
9 responded no.

10 On motion of Director Fraithe, seconded by Director Baker and unanimously carried, the  
11 Board authorized the General Manager to enter into the Stafford Lake Agreement.

12 **INFORMATION ITEMS**

13 **PREPARING FOR DRY YEAR CONDITIONS**

14 Mr. McIntyre informed the Board that Mr. DeGabriele attended the Marin County Board of  
15 Supervisors meeting on the 28<sup>th</sup>. He stated that Marin Municipal's General Manager, Krishna Kumar  
16 provided a presentation about water supply for the eight water agencies in Marin County. He pointed  
17 out that Supervisor Kinsey made a comment to county residents to, "not panic but participate" in  
18 water saving measures.

19 Mr. McIntyre advised the Board that Marin Municipal is beginning to have conversations with  
20 the State Water Resources Control Board to request modification of their water release schedules  
21 into Lagunitas Creek and Walker Creek. He noted that it is likely Marin Municipal will submit a  
22 Temporary Urgency Change Petition. Mr. McIntyre stated that Mr. DeGabriele advised Marin  
23 Municipal that the District does not want to see summer flows reduced below the restrictive 6cfs now  
24 included in Water Right Order WR 95-17.

25 Mr. McIntyre stated that in the Novato Water System, the Board just approved the  
26 agreement with Marin Municipal to back feed into Stafford Lake. He stated that District staff has  
27 communicated with Sonoma County Water Agency and will notify the Regional Water Quality  
28 Control Board of the water transfer.

29 Mr. McIntyre informed the Board that the District received negative press from both the  
30 Novato Patch and Novato Advance regarding the flushing program. He stated that Mr. DeGabriele  
31 provided a letter to both editors in response to the press.

1 President Rodoni stated that this year will be the first time since the 1995 State Order that  
2 Lagunitas Creek in stream flows will be under 8cfs and that it will be a learning curve. He also  
3 suggested that the Board should come back at some point and adopt the resolution provided by the  
4 Sonoma Marin Saving Water Partnership in support the Governors' call for 20% voluntary reduction  
5 in water use.

6 Director Petterle stated that he attended the supervisor meeting and that of the 30 minute  
7 presentation, about 26 minutes was about Marin Municipal. He believes the District didn't get a  
8 chance to say what the District is doing to help with conservation.

9 President Rodoni stated that the Sonoma County Board of Supervisors requested a similar  
10 presentation and asked that Water Advisory Committee members attend as well.

11 Director Petterle stated that Supervisor Kinsey asked for monthly reports on the water supply  
12 situation.

13 **EMPLOYEE HANDBOOK FEBRUARY 2014 REVISION AND NEW SUPERVISOR HANDBOOK**

14 Mr. Bentley informed the Board that there have been changes made to the 2010 version of  
15 the Employee Handbook and that the District's legal counsel suggested a new supervisor handbook  
16 as well. He stated that legal counsel has reviewed the handbooks and the Employee Association  
17 has as well. Mr. Bentley asked that the Board review the handbooks and get and comments or  
18 concerns to him by the end of next week.

19 Director Rodoni asked when the handbooks would come back to the Board.

20 Mr. Bentley stated that staff would bring back the two handbooks to be approved by the  
21 Board at the next meeting, February 18<sup>th</sup>.

22 **WATER CONSERVATION MID-YEAR UPDATE (JULY – DECEMBER 2013)**

23 Ryan Grisso, Water Conservation Coordinator provided the Board with a water conservation  
24 mid-year update. He stated that the District had a lot of water smart home surveys in December and  
25 the amount of toilet and washer rebates has risen. He stated that the cash for grass rebate is down  
26 but believes there will be a spike in that rebate this year.

27 Mr. Grisso informed the Board that the response from the Winter *WaterLine* newsletter for a  
28 toilet giveaway was outstanding. He advised the Board that he received over 268 phone calls and  
29 over 100 emails.

30 Mr. Grisso informed the Board that expenditures in FY14 have increased mainly due to a  
31 second quarter increase in water smart home survey participation and washer rebates. Mr. Grisso

1 informed the Board that the District has put out a Winter *WaterLine* and that the District continues to  
2 update its Facebook page, which has about 1,000 followers.

3 President Rodoni asked when the toilet giveaway was planned. Mr. Grisso stated that the  
4 first 100 toilets are already spoken for.

5 Director Baker asked how many requests the District received. Mr. Grisso said about 300  
6 people which could result in 500 toilets. Director Petterle stated that he would hate to turn anyone  
7 who requested a toilet down and that it would be a long time savings for the District.

8 Mr. Grisso informed the Board that he was going to give customers blocks of times during  
9 the week to come and get their toilets. President Rodoni suggested doing it all at the same time.

10 President Rodoni suggested that Mr. Grisso spend the water conservation budget on more  
11 toilets and that all customers who requested a toilet receive it.

12 Director Petterle stated that if the drought continues and there is a dry summer that there  
13 would need to be more part time staff. Mr. Grisso informed the Board he was working on hiring one  
14 staff currently but may have to bring more on board.

15 Director Petterle asked what customers can do with the old toilets. Mr. Grisso stated they  
16 would have to strip the toilet down and put in their garbage/trash pickup.

17 **MID-YEAR PROGRESS REPORT – ENGINEERING DEPARTMENT**

18 Mr. McIntyre advised the Board that the first half of the year for the Engineering Department  
19 was focusing on the Aqueduct Energy Efficiency Project Relocation and the Gallagher Well Pipeline  
20 Project. He stated that there are 38 projects spread out over all of the departments but noted that  
21 that the FY12-13 “Carry-Over” projects, \$565K is being added to the budget due to delayed  
22 expenditures with the AEEP/MSN project.

23 Mr. McIntyre advised the Board that the Recycled Water Expansion Project is wrapping up  
24 and that the final close out costs are higher than the anticipated budget. He noted that there is still a  
25 potential dispute with Disney Construction but there is nothing to report, it is still moving slowly and  
26 staff will keep the Board apprised.

27 **WAC/TAC MEETING – FEBRUARY 3, 2014**

28 Mr. McIntyre provided the Board with an overview of the WAC/TAC meeting on February 3<sup>rd</sup>.  
29 He stated that President Rodoni was unanimously elected Chair of the WAC and Mike Healy was  
30 elected as Vice Chair. He noted with Mr. DeGabriele and President Rodoni as Chair of the WAC  
31 and TAC the District is well represented. Mr. McIntyre informed the Board that a special meeting will  
32 be held on April 7<sup>th</sup> to consider the budget and that the proposed budget SCWA water sales were

1 reduced by 20%. He advised the Board that Pam Jeane provided an update on the water supply and  
2 Temporary Urgency Change Petition. He informed the Board that Lake Mendocino is 25% full and  
3 Lake Sonoma is 61% full. Mr. McIntyre advised the Board that the California Department of Fish and  
4 Wildlife would make a decision on sport fishing on the Russian River tomorrow.

5 Mr. McIntyre advised the Board that the WAC adopted a resolution from Sonoma Marin  
6 Saving Water Partnership encouraging a 20% reduction in water use at the Governor's request.

7 Mr. McIntyre informed the Board that there was an update on the Water Shortage Allocation  
8 Model that could be used for years to come. He stated that the WAC will bring the model back to the  
9 April 7<sup>th</sup> meeting for approval.

10 **NBWA MEETING – FEBRUARY 7, 2014**

11 Director Fraites informed the Board that he and Director Baker will be attending the meeting  
12 on February 7<sup>th</sup>.

13 **MISCELLANEOUS**

14 The Board received the following miscellaneous information: Disbursements, Quarterly  
15 Labor Cost Report, Self-Insured Workers' Comp – 2<sup>nd</sup> Quarter Status Report, Marin Civil Grand Jury  
16 Response, Postage Rate Increase, and Marin Local Agency Formation Commission Notice of Public  
17 Hearing.

18 The Board received the following news articles: Marin County plans drought summit, Marin  
19 looks north for needed water supplies as drought continues, Marin Municipal Water District asks  
20 public for larger cut in water use, District urges conservation as state declares emergency,  
21 Mandatory water rationing in Marin likely April 1, water officials say, and Editorial: Make it easy to  
22 track our water conservation.

23 The Board also received the following news articles at the meeting: Water Agency to use  
24 reserves to avoid steep rate hikes, Can We Manage Groundwater Management?, California  
25 drought: Past dry periods have lasted more than 200 years, scientists say, Voluntary 20 Percent  
26 Water Conservation Request Issued to North Bay Water Utilities, and Marin homeowners slash  
27 water usage through creative conservation.

28 President Rodoni informed the Board that LAFCO is attempting a new approach by going  
29 out and asking agencies and the public what should be studied in order to get information better  
30 distributed.

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1 **ADJOURNMENT**

2 President Rodoni adjourned the meeting at 9:19 p.m.

3 Submitted by

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Katie Young  
District Secretary

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**NORTH MARIN WATER DISTRICT**  
**MONTHLY PROGRESS REPORT FOR January 2014**  
February 18, 2014

1.

**Novato Potable Water Prod - RR & STP Combined - in Million Gallons - FYTD**

Month	FY13/14	FY12/13	FY11/12	FY10/11	FY09/10	14 vs 13 %
July	385	389	371	379	360	-1%
August	360	396	373	368	367	-9%
September	332	346	347	358	335	-4%
October	313	283	249	278	233	10%
November	229	166	183	164	176	38%
December	182	146	156	141	149	25%
January	181	151	178	146	140	20%
<b>FYTD Total</b>	<b>1,982</b>	<b>1,878</b>	<b>1,857</b>	<b>1,835</b>	<b>1,760</b>	<b>6%</b>

**West Marin Potable Water Production - in Million Gallons - FY to Date**

Month	FY13/14	FY12/13	FY11/12	FY10/11	FY09/10	14 vs 13 %
July	9.3	9.8	9.2	9.9	10.0	-5%
August	9.3	9.7	9.4	9.9	10.6	-5%
September	8.5	8.3	8.7	9.2	9.6	3%
October	8.0	7.4	6.5	7.8	6.9	8%
November	6.8	5.2	5.1	4.9	5.6	31%
December	6.4	4.5	4.9	4.8	4.5	43%
January	5.9	5.0	4.8	4.3	4.2	18%
<b>FYTD Total</b>	<b>54.1</b>	<b>49.9</b>	<b>48.7</b>	<b>50.9</b>	<b>51.3</b>	<b>8%</b>

**Stafford Treatment Plant Production - in Million Gallons - FY to Date**

Month	FY13/14	FY12/13	FY11/12	FY10/11	FY09/10	14 vs 13 %
July	98	49	115	109	152	101%
August	83	83	126	108	150	0%
September	56	72	77	112	155	-22%
October	82	88	113	111	80	-7%
November	5	64	106	95	0	-93%
December	2	0	49	0	0	-
January	0	21	0	0	0	-
<b>FYTD Total</b>	<b>326</b>	<b>375</b>	<b>586</b>	<b>536</b>	<b>537</b>	<b>-13%</b>

**Recycled Water Production - in Million Gallons - FY to Date**

Month	FY13/14	FY12/13	FY11/12	FY10/11	FY09/10	14 vs 13 %
July	27.6	11.2	11.0	11.9	12.0	147%
August	26.2	10.5	12.2	11.2	12.9	150%
September	18.6	8.5	9.6	9.5	10.2	119%
October	15.8	0.0	0.0	2.6	2.6	-
November	6.5	0.0	0.0	0.0	0.0	-
December	1.6	0.0	0.0	0.0	0.0	-
January	5.0	0.0	0.0	0.0	0.0	-
<b>FYTD Total</b>	<b>101.4</b>	<b>30.2</b>	<b>32.8</b>	<b>35.2</b>	<b>37.7</b>	<b>236%</b>

**2. Stafford Lake Data**

	January Average	January 2013	January 2014
Rainfall this month	5.7 Inches	0.6 Inches	0 Inches
Rainfall this FY to date	15.7 Inches	17.1 Inches	2.4 Inches
Lake elevation*	191.7 Feet	196.0 Feet	179.2 Feet
Lake storage**	1091 MG	1393 MG	435 MG

\* Spillway elevation is 196.0 feet

\*\* Lake storage less 390 MG = quantity available for delivery

**Temperature (in degrees)**

	Minimum	Maximum	Average
January 2013 (Novato)	25	63	51
January 2014 (Novato)	26	83	56

**3. Number of Services**

January 31	Novato Water			Recycled Water			West Marin Water			Oceana Marin Sw		
	FY14	FY13	Incr %	FY14	FY13	Incr %	FY14	FY13	Incr %	FY14	FY13	Incr %
Total meters	20,733	20,753	-0.1%	47	18	161%	820	819	0.1%	-	-	-
Total meters active	20,486	20,493	0.0%	44	11	300%	776	776	0.0%	-	-	-
Active dwelling units	23,931	23,941	0.0%	0	0	-	813	811	0.2%	229	227	0.9%

**4. Oceana Marin Monthly Status Report (January)**

Description	January 2013	January 2014
Effluent Flow Volume (MG)	0.586	0.336
Irrigation Field Discharge (MG)	0.818	0
Treatment Pond Freeboard (ft)	3.7	3.3
Storage Pond Freeboard (ft)	3.6	7.3

**5. Developer Projects Status Report (January)**

Job No.	Project	Complete %	% This month
2763	City Administration Office	95	5

**District Projects Status Report - Const Dept (January)**

Job No.	Project	% Complete	% This month
7139	City Measure A, Group 5 PB Replacement	90	10

**Employee Hours to Date, FY 13/14**

As of Pay Period Ending January 31, 2013  
Percent of Fiscal Year Passed = 58%

Developer Projects	Actual	Budget	% YTD Budget	District Projects	Actual	Budget	% YTD Budget
Construction	677	1,400	48	Construction	2,526	5,607	45
Engineering	562	1,480	38	Engineering	3,042	3,698	82

**6. Safety/Liability**

Industrial Injury with Lost Time				Liability Claims Paid	
Lost Days	OH Cost of Lost Days (\$)	No. of Emp. Involved	No. of Incidents	Incurred (FYTD)	Paid (FYTD) (\$)
FY through January 14	60	1	0	2	3,749
FY through January 13	0	0	0	2	3,069

Days without a lost time accident through January 31, 2014= 235 days

**7. Energy Cost**

FYE	January			Fiscal Year-to-Date thru January		
	Kwh	¢/Kwh	Cost/Day	Kwh	¢/Kwh	Cost/Day
2014 Stafford TP	44,948	17.1¢	\$248	411,439	17.1¢	\$327
Pumping	94,805	14.5¢	\$442	1,038,348	15.6¢	\$760
Other*	39,391	16.7¢	\$212	318,349	20.1¢	\$300
	179,517	15.6¢	\$902	1,769,424	16.7¢	\$1,384
2013 Stafford TP	78,439	17.1¢	\$432	366,046	15.5¢	\$260
Pumping	N/A	N/A	N/A	N/A	N/A	N/A
Other*	29,790	18.8¢	\$187	240,511	21.6¢	\$271
	N/A	N/A	N/A	N/A	N/A	N/A
2012 Stafford TP	29,446	15.8¢	\$155	578,642	16.1¢	\$439
Pumping	78,932	14.6¢	\$385	936,524	14.6¢	\$628
Other*	49,501	16.2¢	\$174	278,619	19.3¢	\$238
	157,879	15.3¢	\$654	1,793,785	15.8¢	\$1,273

\*Other includes West Marin Facilities

**8. Water Conservation Update**

	Month of January 2014	Fiscal Year to Date	Program Total to Date
High Efficiency Toilet (HET) Rebate (\$100 each)	35	178	2,803
Retrofit Certificates Filed	11	164	4,933
Cash for Grass Rebates Paid Out	4	20	542
Washing Machine Rebates	46	212	6,363
Water Smart Home Survey	27	211	1,628

**9. Utility Performance Metric**

SERVICE DISRUPTIONS	January No. of Customers Impacted
PLANNED	
Duration Between 0.5 and 4 hours	5
Duration Between 4 and 12 hours	
Duration Greater than 12 hours	
UNPLANNED	
Duration Between 0.5 and 4 hours	
Duration Between 4 and 12 hours	
Duration Greater than 12 hours	

SERVICE LINES REPLACED	January
Polybutylene	4
Copper (Replaced or Repaired)	1

# NORTH MARIN WATER DISTRICT

## Summary of Complaints & Service Orders January 2014

2/10/2014

<u>Type</u>	<u>Jan-14</u>	<u>Jan-13</u>	<u>Action Taken January 2014</u>
<b><u>Consumers' System Problems</u></b>			
Service Line Leaks	0	0	~
Meter Leak Consumer's Side	16	8	Notified Consumer
House Plumbing	0	0	~
Noisy Plumbing	0	0	~
Seepage or Other	0	0	~
House Valve / Meter Off	7	3	Turned Back On
Nothing Found	14	5	Notified Consumer
Low Pressure	1	1	PSI @ 52. Debris in aerator.
High Pressure	1	1	PSI @ 80. PRV failing.
Water Waster Complaints	0	0	~
<b>Total</b>	<b>39</b>	<b>18</b>	
<b><u>Service Repair Reports</u></b>			
Register Replacements	0	0	~
Meter Replacement	0	2	~
Meter Box Alignment	0	0	~
Meter Noise	0	0	~
Dual Service Noise	0	0	~
Box and Lids	1	0	Replaced
Water Off/On Due To Repairs	4	3	Notified Customer
Misc. Field Investigation	7	3	Notified Customer
<b>Total</b>	<b>12</b>	<b>8</b>	
<b><u>Leak NMWD Facilities</u></b>			
Main-Leak	0	0	~
Mains-Nothing Found	0	0	~
Mains-Damage	0	0	~
Service- Leak	9	13	Repaired
Services-Nothing Found	6	1	Notified Consumer
Service-Damaged	0	0	~
Fire Hydrant-Leak	5	1	Repaired
Fire Hydrants-Nothing Found	0	0	~
Fire Hydrants-Damaged	1	0	Repaired
Meter Replacement	4	0	Replaced
Meters-Leak	0	0	~
Meters-Nothing Found	0	0	~
Meters Damaged	0	0	~
Washer Leaks	7	5	Replaced
<b>Total</b>	<b>32</b>	<b>20</b>	
<b><u>High Bill Complaints</u></b>			
Consumer Leaks	9	10	Notified Consumer
Meter Testing	0	0	~
Meter Misread	5	8	Notified Consumer
Nothing Found	21	14	Notified Consumer
Projected Consumption	0	0	~
Excessive Irrigation	0	1	~
<b>Total</b>	<b>35</b>	<b>33</b>	

# NORTH MARIN WATER DISTRICT

## Summary of Complaints & Service Orders January 2014

2/10/2014

<u>Type</u>	<u>Jan-14</u>	<u>Jan-13</u>	<u>Action Taken January 2014</u>
<b><u>Low Bill Reports</u></b>			
Meter Misread	0	0	~
Stuck Meter	0	0	~
Nothing Found	0	1	~
Projected Consumption	0	0	~
Minimum Charge Only	0	0	~
<b>Total</b>	<b>0</b>	<b>1</b>	

### **Water Quality Complaints**

Algal Bloom/GAC	0	1	~
Taste and Odor	0	0	~
Color	0	0	~
Turbidity	0	0	~
Suspended Solids	0	0	~
Other	0	1	~

<b>Total</b>	<b>0</b>	<b>2</b>	
<b><u>TOTAL FOR MONTH:</u></b>	<b>118</b>	<b>82</b>	<b>44%</b>

### **Fiscal YTD Summary**

Consumer's System Problems	205	265	-23%	Decrease In Service Line Leaks
Service Repair Report	72	90	-20%	Decrease In Water On/Off for Repairs
Leak Complaints	172	162	6%	Increase In Nothing Found
High Bill Complaints	268	375	-29%	Decrease In Nothing Found
Low Bills	0	2	0%	~
Water Quality Complaints	46	24	92%	Increase In Taste & Odor
<b>Total</b>	<b>763</b>	<b>918</b>	<b>-17%</b>	

### **Change Primarily Due To**

# NORTH MARIN WATER DISTRICT

## Summary of Complaints & Service Orders January 2014

2/10/2014

<u>Type</u>	<u>Jan-14</u>	<u>Jan-13</u>	<u>Action Taken January 2014</u>
<b><u>"In House" Generated and Completed Work Orders</u></b>			
<b><u>Check Meter:</u></b> possible consumer/District leak, high bill, flooded, need read, etc.	237	246	
<b><u>Change Meter:</u></b> leaks, hard to read	5	22	
<b><u>Possible Stuck Meter</u></b>	0	2	
<b><u>Repair Meter:</u></b> registers, shut offs	0	0	
<b><u>Replace Boxes/Lids</u></b>	0	7	
<b><u>Hydrant Leaks</u></b>	0	0	
<b><u>Trims</u></b>	21	26	
<b><u>Dig Outs</u></b>	60	57	
<b><u>Letters to Consumer:</u></b> meter obstruction, trims, bees, gate access, etc.	0	0	
<b><u>Misc:</u></b> locate meter, get meter number, cross connection follow ups, kill service, etc.	0	0	
	<hr/> 323	<hr/> 360	

### **Bill Adjustments Under Board Policy:**

#### **January 14 vs. January 13**

Jan-14	40	\$11,539
Jan-13	29	\$16,166

#### **Fiscal Year to Date vs. Prior FYTD**

13/14 FYTD	231	\$73,520
12/13 FYTD	257	\$92,130

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## MEMORANDUM

To: Board of Directors

February 14, 2014

From: David L. Bentley, Auditor-Controller

Subj: Auditor-Controller's Monthly Report of Investments for January 2014

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**RECOMMENDED ACTION:** Information

**FINANCIAL IMPACT:** None

At month end the District's Investment Portfolio had an amortized cost value (i.e., cash balance) of \$16,312,570 and a market value of \$16,320,093. During January the cash balance increased by \$159,006. Recycled Water grant funds totaling \$247,323 were received during the month. The market value of securities held decreased by \$1,479 during the month. The ratio of total cash to budgeted annual operating expense, excluding the \$5,890,593 unexpended balance of the Bank of Marin loan, stood at 79%, up 3% from the prior month. This compares to the District's target ratio of 90% of annual operating expense, or \$11.9 million. Receipt of an additional \$437,954 in recycled water loan funds is anticipated.

At January 31, 2014, 71% of the District's Portfolio was invested in California's Local Agency Investment Fund (LAIF), 14% in Time Certificate of Deposits, and 12% in Corporate Medium Term Notes. The weighted average maturity for the portfolio was 137 days, compared to 147 days at the end of December. The LAIF interest rate for the month was 0.24%, compared to 0.26% the previous month. The weighted average Portfolio rate was 0.35%, compared to 0.36% the previous month. Including interest paid by Black Point Partners on the StoneTree Golf Club Recycled Water Facilities Loan, the District earned \$11,292 in interest revenue during January, with 55% earned by Novato Water, 40% earned by Recycled Water (by virtue of the Black Point Partners loan) and the balance distributed to the other improvement districts.

State Controller John Chiang's January report on California's financial position stated:

"Strong revenues for the month of January confirm California is continuing its slow climb out of the wreckage of the Great Recession. Better-than-expected income tax receipts-particularly those straight from paychecks-could indicate Californians are working and earning more. While year-to-date revenues are \$427.5 million ahead of estimates adjusted upward only a month ago, the stock market's volatility reminds us that continued revenue outperformance should not be taken for granted. Spending discipline and paying down debt must continue to be our focus."



**NORTH MARIN WATER DISTRICT  
AUDITOR-CONTROLLER'S MONTHLY REPORT OF INVESTMENTS  
January 31, 2014**

Type	Description	S&P Rating	Purchase Date	Maturity Date	Cost Basis <sup>1</sup>	1/31/2014 Market Value	Yield <sup>2</sup>	% of Portfolio
<b>LAIF</b>	State of CA Treasury	A	Various	Open	\$11,524,848	\$11,528,163	0.24% <sup>3</sup>	<b>71%</b>
<b>Time Certificate of Deposit</b>								
TCD	Ally Bank	n/a	9/28/12	10/1/14	\$248,000	\$248,000	0.85%	2%
TCD	Goldman Sachs	n/a	12/5/12	12/5/14	248,000	248,000	0.75%	2%
TCD	GE Capital Retail Bank	n/a	10/11/13	4/13/15	248,000	248,000	0.80%	2%
TCD	Discover Bank	n/a	5/1/13	5/1/15	248,000	248,000	0.50%	2%
TCD	GE Capital Bank	n/a	6/10/13	6/8/15	248,000	248,000	0.50%	2%
TCD	American Express	n/a	8/1/13	8/3/15	248,000	248,000	0.70%	2%
TCD	Compass Bank	n/a	9/4/13	9/4/15	248,000	248,000	0.65%	2%
TCD	Sallie Mae Bank	n/a	10/23/13	10/23/15	248,000	248,000	0.80%	2%
TCD	BMW Bank	n/a	12/11/13	12/11/15	248,000	248,000	0.70%	2%
					<b>\$2,232,000</b>	<b>\$2,232,000</b>	<b>0.59%</b>	<b>14%</b>
<b>Corporate Medium Term Note</b>								
MTN	General Electric	AA+	1/29/13	10/9/15	\$1,002,500	\$1,004,982	0.70%	6%
MTN	Toyota Motor Credit	AA-	5/14/13	7/17/15	1,005,427	1,006,994	0.51%	6%
					<b>\$2,007,928</b>	<b>\$2,011,976</b>	<b>0.60%</b>	<b>12%</b>
<b>Other</b>								
Agency	Marin Co Treasury	AA+	Various	Open	\$474,029	\$474,029	0.22%	3%
Bond	Olema G.O. Bond	A+	5/31/91	1/1/15	3,933	4,093	5.00%	0%
Other	Various	n/a	Various	Open	69,832	69,832	0.00%	0%
<b>TOTAL IN PORTFOLIO</b>					<b>\$16,312,570</b>	<b>\$16,320,093</b>	<b>0.35%</b>	<b>100%</b>

Weighted Avg. Maturity = **137 Days**

LAIF: State of California Local Agency Investment Fund.

MTN: Medium Term Note - Maturity of 5 years or less.

TCD: Time Certificate of Deposit

Agency: West Marin General Obligation Bond Fund tax receipts & STP State Revolving Fund Loan Reserve.

Bond: Annual \$4,113 payment is paid by tax levy on Olema residents.

Other: Comprised of 4 accounts used for operating purposes. US Bank Operating Account, US Bank STP SRF Loan Account, Bank of Marin AEEP Checking Account & NMWD Petty Cash Fund.

1 Original cost less repayment of principal and amortization of premium or discount.

2 Yield defined to be annualized interest earnings to maturity as a percentage of invested funds.

3 Earnings are calculated daily - this represents the average yield for the month ending January 31, 2014.

<u>Interest Bearing Loans</u>	Loan Date	Maturity Date	Original Loan Amount	Principal Outstanding	Interest Rate
Black Point Partners-BPGL	6/30/06	2/28/24	\$3,612,640	\$2,236,317	2.40%
Employee Housing Loans (7)	Various	Various	1,249,200	1,249,200	Contingent
Employee Computer Loans (2)	Various	Various	4,464	1,408	1.52% (avg)
<b>TOTAL INTEREST BEARING LOANS</b>			<b>\$4,866,304</b>	<b>\$3,486,925</b>	

**The District has the ability to meet the next six months of cash flow requirements.**

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## MEMORANDUM

To: Board of Directors February 14, 2014  
 From: Dianne Landeros, Human Resources Supervisor  
 Subj: Employee Handbook February 2014 Revision and New Supervisor Handbook  
I:\hr supervisor\bod employee handbook approve february 2014.docx

**RECOMMENDED ACTION:** Approve Revised Employee Handbook and New Supervisor Handbook  
**FINANCIAL IMPACT:** None

The Employee Handbook and Supervisor Handbook were presented as a draft at the February 4<sup>th</sup> meeting. At that time the Board was asked to review the Handbooks and provide any comments to staff. No comments were received. The NMWD Employee Handbook which incorporates the changes made to the Employee Association Memorandum of Understanding (MOU) dated December 28, 2012 and numerous wording changes recommended by the District's labor legal counsel, Wiley, Price and Radulovich. This revision to the Employee Handbook incorporates the following policies and provisions negotiated and incorporated in the December 2012 MOU:

1. The District contribution for health insurance changed from 90% to 85% (Page 37, 38);
2. For employees hired on or after January 1, 2013, retirement benefits are in accordance with the Public Employees' Pension Reform Act (PEPRA) of 2013, which stipulates a 2% @ 62 plan based on the highest 3-years of compensation (Page 47);
3. By October 1, 2016, employees will contribute 8% (6.25% if on 2% @ 62 plan) of their salary toward the cost of the CalPERS retirement benefits (Page 47, 48).

Also attached is the new Supervisor Handbook. Upon advice from legal counsel, portions of the Employee Handbook were moved to the Supervisor Handbook along with other sections relevant to supervisors such as the Hiring Procedure and the Employee Performance Review Policy.

The proposed revisions were reviewed and accepted by the NMWD Employee Association before the February 4<sup>th</sup> Board meeting.

RECOMMENDATION

Approve the Employee Handbook February 2014 Revision and the New Supervisor Handbook.

*Rather than include Attachments here, Attachments can be found in the 2/4/2014 Agenda Packet. Changes noted in those drafts were incorporated. There were no other substantive changes. CD*

Approved by GM CD  
 Date 2/14/2014

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## MEMORANDUM

To: Board of Directors

February 14, 2014

From: Drew McIntyre, Chief Engineer



Subject: AEEP Reaches A-D / MSN B3 Project: Award Construction Contract to Ghilotti Construction Company

R:\Folders by Job No\7000 jobs\7118\B3 - Construction 7118.09\Board Memos\7118.03 AEEP B3 Contract Award to Ghilotti Const 2-14-14.docx

**RECOMMENDED ACTION:** Approve award of the contract to Ghilotti Construction Company (GCC) and authorize the General Manager to execute an agreement with GCC

**FINANCIAL IMPACT:** \$12,275,517 plus \$615,000 contingency (5%) (~7.55M funded by Caltrans)

Background

At the December 3, 2013 meeting, staff provided the Board with an update on the AEEP Reaches A-D / MSN B3 project and the Board authorized bid advertisement for the project. The advertised date for this project was December 9, 2013 with a bid opening on January 31, 2014. The District advertised the project in the Marin IJ and mailed contract documents to thirty-nine (39) interested contractors and builders exchanges in the greater bay area. Twenty (20) contractors, including fourteen (14) prime contractors, attended the mandatory pre-bid meeting on January 7, 2014. The bid period was open for approximately seven (7) weeks and included four addenda. As identified below, four bids were received ranging from a low of \$12,275,517 to a high of \$15,747,684.

	CONTRACTOR	BID
1.	Ghilotti Construction Company, Santa Rosa	\$12,275,517
2.	Maggiora & Ghilotti, San Rafael	\$12,444,444
3.	Ranger Pipelines, San Francisco	\$13,524,502
4.	Mountain Cascade, Livermore	\$15,747,684

The Engineer's Estimate for the base bid was \$14,600,000. The bid span between the Number 1 and Number 2 low bidders GCC and Maggiora & Ghilotti was at \$168,927 (for a variance of 1.4%).

Bid Evaluation

GCC of Santa Rosa, California submitted the lowest responsive bid of \$12,275,517 which is \$2,324,483 (19%) below the Engineer's original construction cost estimate of \$14,600,000<sup>1</sup>. A bid evaluation (Attachment 1) was performed by CSW/Stuber-Stroeh. CSW's bid evaluation confirmed GCC's construction bid to be responsive and responsible. No protest

<sup>1</sup> Engineer's estimate was increased to \$15.4 M during bid phase to account for a higher contingency (i.e., 10% vs. 5%)

letters from other bidders or construction trades were received during the specified five business day window after receipt of bids.

Project Cost Update

An updated total project cost estimate (all Reaches) for NMWD responsible expenses is now ~\$7.5 million (see Attachment 2). Total NMWD project costs are still estimated to be less than what was initially brought to the Board in January 2011 (~\$8.3 million). Staff is currently evaluating proposals for construction manager and will bring back a Construction Management Agreement for Board consideration at a later time.

Project Schedule

A project schedule update for key milestone dates for the AEE Project is provided as follows:

<b>SCHEDULE</b>		
	<b>Dec. 2013 Est.</b>	<b>Current</b>
Advertise Project	12/9/13	Completed
Pre-Bid Meeting	1/6/14	Completed
Bid Opening	1/31/14	Completed
Board Authorization of Award (tentative)	2/18/14	2/18/14
Notice to Proceed	3/4/14	3/4/14
Construction Complete	7/7/15	7/7/15

RECOMMENDATION

Board award the construction contract to Ghilotti Construction Company and authorize the General Manager to execute an agreement with Ghilotti Construction Company in the amount of \$12,275,517 plus a contingency of \$615,000.

Date: February 7, 2014  
File: 4.1131.02

Mr. Drew McIntyre, Chief Engineer  
North Marin Water District  
999 Rush Creek Place  
Novato, CA 94948

**Re: North Marin Aqueduct Relocation-Aqueduct Energy Efficiency Project  
Reaches A, B, C and D/MSN B-3, NMWD Project Number 1.7118.09  
Bid Review**

Dear Drew:

Bids for the above project were received on Friday, January 31, 2014 at 2:00 PM. Each of the bids consisted of two parts, 1) a Base Bid, and 2) an Alternative A Bid. Either the Base Bid or the Alternative A Bid could be used by NMWD as the basis for selection of the low bidder. Furthermore, the Alternate A Bid will be used as a comparative cost analysis to determine a fair allocation of costs between Caltrans and NMWD.

**Section 00300 – Bid Form**

All Bids received met the requirements of this section.

**Section 00310 – Bid Schedule**

All Bids received met the requirements of this section. The following is an analysis of section 00310:

Each bid was split into six (6) sections:

- A. Mobilization, Traffic Control (Local), SWPPP, etc.
- B. Reach B
- C. Pump Stations, Horizontal Directional Drilling
- D. Reaches C and D (Betterment Costs)
- E. Reach A (Betterment Cost)
- F. Traffic Control (Temporary relocation of highway)

The Base Bid is for a 42" pipe (Reaches A & B) and a parallel 36" pipe (Reaches C & D).

The Alternative A Bid is for a 42" pipe (Reach A), a 30" pipe (Reach B) and a 36" pipe (Reaches C & D).

A total of four (4) firms submitted bids for each of the elements. The results are as follows:

Base Bid:

(Engineer's Estimate \$ 15,433,069)

- 1. Ghilotti Construction Company (GCC) \$ 12,275,517
- 2. Maggiora and Ghilotti (MG) \$ 12,444,444 (+01.35%)

Mr. Drew McIntyre, Chief Engineer  
North Marin Water District  
February 7, 2014  
Page 2

- |    |                       |                         |
|----|-----------------------|-------------------------|
| 3. | Ranger Pipelines (RP) | \$ 13,524,502 (+10.18%) |
| 4. | Mountain Cascade (MC) | \$ 15,747,684 (+22.05%) |

**Alternative Bid:**

(Engineer's Estimate \$ 14,373,067)

- |    |                               |                         |
|----|-------------------------------|-------------------------|
| 1. | Ghilotti Construction Company | \$ 11,346,865           |
| 2. | Maggiore and Ghilotti         | \$ 12,155,803 (+7.13 %) |
| 3. | Ranger Pipeline               | \$ 12,662,147 (+11.59%) |
| 4. | Mountain Cascade              | \$ 14,384,109 (+26.77%) |

All four bidders acknowledged the receipt of 4 addendums and included the items in the addenda within their respective bids. A bid summary comparison chart showing the price for each of the bid items has been prepared and is attached for your information and records. For the purpose of the following analysis only the Base Bid will be used for comparisons.

The three lowest base bids were under the Engineer's Estimate of \$15,433,069 with the major items of difference (compared to the lowest) being mobilization, construction site management, stump removal costs, large valves, boring costs, and filling the existing pipe with cellcrete.

The difference between the lowest bidder, Ghilotti Construction and the second lowest bidder, Maggiore/Ghilotti bids was only \$ 168,927 or 1.35%. The low bid was 20.03% under the Engineer's Estimate. We find this to be within acceptable deviation based on the size and complexity of the project.

Number of Bids Received

Four (4) bids received for this project is adequate and provides an acceptable range for price comparison. Three of the bidders have done work for the District in the past with good results.

The low bidder, Ghilotti Construction is currently constructing the B-1 portion of the AEEP, Reach E located immediately south of the present project. The AEEP/B-3 project is an extension of the B-1 project.

The second low bidder, Maggiore/Ghilotti is currently constructing portions of the Caltrans, MSN B-2 Aqueduct project just north of this project as a subcontractor to Ghilotti Brothers. Their experience and the fact that both companies are still mobilized in the area reflects in both of the bids.

Analysis of Base Bid Prices

Section A (Scheduling, Mobilization Construction Management, etc.) ranged between 5.9% to 11% of the bidder's entire base bid amounts. The breakdown was as follows: (#1) 11%, (#2) 6.2%, (#3) 7.5% and (#4) 5.9%.



Mr. Drew McIntyre, Chief Engineer  
North Marin Water District  
February 7, 2014  
Page 3

Section B (Reach B) ranged between 49.5% to 57.8% of the bidder's entire base bid amounts. The breakdown was as follows: (#1) 49.5%, (#2) 53.1%, (#3) 57.8% and (#4) 54.8%.

Section C (Pump Stations and HDD) ranged between 3.6% to 4.9% of the bidder's entire base bid amounts. The breakdown was as follows: (#1) 4.3%, (#2) 3.6%, (#3) 3.8% and (#4) 4.9%.

Section D (Reaches C and D) ranged between 7.4% to 10.0% of the bidder's entire base bid amounts. The breakdown was as follows: (#1) 10.0%, (#2) 8.3%, (#3) 7.4% and (#4) 8.8%.

Section E (Reach A) ranged between 12.8% to 15.7% of the bidder's entire base bid amounts. The breakdown was as follows: (#1) 15.4%, (#2) 14.1%, (#3) 12.8% and (#4) 15.7%.

Section F (Traffic Control) ranged between 9.8% to 14.7% of the bidder's entire base bid amounts. The breakdown was as follows: (#1) 9.8%, (#2) 14.7%, (#3) 10.7% and (#4) 9.9%.

GCC was sufficiently higher in Section A to the other three bidders with high prices for mobilization, construction site management and traffic control. The price submitted by GCC is aligned with Caltrans guidelines.

In Section B, both GCC and MG were lower than the other bidders. Given their experience in the ongoing MSN projects currently under construction, that result is reasonable.

In Section C all of the bidders were in range of the other bids and the Engineer's estimated costs.

In Section D all of the bidders were in range of the other bidders, but higher than the Engineer's estimated costs. The higher costs were reflected in the estimated cost per foot of the parallel 36" line (Bid Item D-3) through the private properties.

In Section E all of the bidders were in range of the other bidders and extremely close to the Engineer's estimated costs with the three lowest bids within 1.1%.

In Section F all of the bidders were in range of the other bids and the Engineer's estimated costs.

#### **Section 00400 – Iran Contracting Act Certification**

All Bids received met the requirements of this section.

#### **Section 00410 – Bid Guaranty Bond**

All four bidders provided a bid guaranty bond in the amount of 10% of the total bid in accordance with the contract documents.

Mr. Drew McIntyre, Chief Engineer  
North Marin Water District  
February 7, 2014  
Page 4

**Section 00420 – Certification of Bidder’s Experience and Qualifications**

Three bids met the complete requirements of this section. The fourth bid, Maggiora/Ghilotti was missing pages 5 and 6.

**Section 00430 – Proposed Sub-Contractors**

All four bidders identified several subcontractors for various work portions of this project. Based on the review of the subcontractor’s level of responsibility named for each item of work, we can reasonably conclude that each of the bidders meet the requirement to perform a minimum of at least 50% of the work as required by the contract documents.

**Section 00440 – Site Visit Affidavit**

All Bids received met the requirements of this section.

**Section 00450 - Major Equipment and Material Suppliers**

All four bidders listed the three (3) suppliers required by the contract documents, those being pumps, welded steel pipe and cathodic protection systems. All suppliers are acceptable vendors. There were three sole source items (Hydrants, air-relief valves and butterfly valves) required by the contract documents which all listed as required.

**Section 00480 – Non-Collusion Affidavit**

All Bids received met the requirements of this section.

**Summary**

Based on our review of all four bids we find them complete and all bids to be responsive. Based on reputation and our experience, each of the bidders are responsible and competent contractors. We recommend that the District accept the apparent low bid, and enter into a contract with Ghilotti Construction Company.

If you have any questions or require further information, please let me or Don Curry know.

Sincerely,

CSW/STUBER-STROEH ENGINEERING GROUP, INC.



Al Cornwell



Don Curry

DAC:AGC:kab  
Enclosures

BASE Bid Items From Bid Schedule (00310)				Engineer's Estimate		Ghilotti Construction		Maggiora & Ghilotti		Ranger Pipelines		Mountain Cascade	
Bid Item No.	Item Description	Unit	Quantity	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
<b>Section A Mobilization, Traffic Control, Etc. -</b>													
A-1	Progress Schedule (Critical Path Method)	LS	1	5,000	\$5,000	3,000	\$3,000	15,000	\$15,000	20,000	\$20,000	25,000	\$25,000
A-2	Mobilization (10%)	LS	1	1,239,708	\$1,239,708	900,000	\$900,000	589,277	\$589,277	500,000	\$500,000	495,000	\$495,000
A-3	Temporary Fence (Type ESA)	LF	3,100	4	\$12,400	5	\$15,500	5.50	\$17,050.00	4	\$12,400	5	\$15,500
A-4	Construction Site Management	LS	1	25,000	\$25,000	100,000	\$100,000	15,000	\$15,000	250,000	\$250,000	50,000	\$50,000
A-5	Storm Water Pollution Prevention	LS	1	20,000	\$20,000	30,000	\$30,000	32,000	\$32,000	35,000	\$35,000	50,000	\$50,000
A-6	Slope Protection, Erosion Control and Riprap	LS	1	20,000	\$20,000	30,000	\$30,000	50,000	\$50,000	10,000	\$10,000	20,000	\$20,000
A-7	Lead Compliance Plan	LS	1	4,000	\$4,000	3,000	\$3,000	17,000	\$17,000	5,000	\$5,000	5,000	\$5,000
A-8	ADL Aerial Burial Location Report	LS	1	6,000	\$6,000	4,000	\$4,000	3,500	\$3,500	7,500	\$7,500	5,000	\$5,000
A-9	Traffic Control	LS	1	200,000	\$200,000	200,000	\$200,000	22,000	\$22,000	100,000	\$100,000	250,000	\$250,000
A-10	Trenching, sheeting, shoring and bracing or equivalent method of protection in accordance with Sections 6700-6708 of the California Labor Code.	LS	1	50,000	\$50,000	60,000	\$60,000	12,000	\$12,000	75,000	\$75,000	20,000	\$20,000
<b>TOTALS A</b>					\$1,582,108		\$1,345,500		\$772,827		\$1,014,900		\$935,500
<b>Section B Relocation and Betterment - Reach B</b>													
B-1	Demolition/Remove Concrete (Lined Ditch)	LS	1	10,000	\$10,000	4,000	\$4,000	2,000	\$2,000	5,000	\$5,000	2,000	\$2,000
B-2	Site Clearing	LS	1	200,000	\$200,000	30,000	\$30,000	65,000	\$65,000	100,000	\$100,000	50,000	\$50,000
B-2a	Stump/Rootball Removal (5"-10")	EA	54	200	\$10,800	50	\$2,700	90	\$4,860.00	100	\$5,400	60	\$3,240
B-2b	Stump/Rootball Removal (11"-20")	EA	90	400	\$36,000	50	\$4,500	180	\$16,200	200	\$18,000	80	\$7,200
B-2c	Stump/Rootball Removal (21"-30")	EA	24	900	\$21,600	50	\$1,200	270	\$6,480	500	\$12,000	180	\$4,320
B-2d	Stump/Rootball Removal (31"-47")	EA	4	2,800	\$11,200	250	\$1,000	423	\$1,692	1,000	\$4,000	1,000	\$4,000
B-2e	Stump/Rootball Removal (48"+)	EA	3	5,000	\$15,000	250	\$750	423	\$1,269	1,200	\$3,600	1,500	\$4,500
B-2f	Import and Grading	CY	6,000	12	\$72,000	1	\$6,000	25	\$150,000	8	\$48,000	8	\$48,000
B-3	Water Service Connection	EA	4	7,000	\$28,000	3,000	\$12,000	5,500	\$22,000	5,500	\$22,000	4,000	\$16,000
B-3a	12" Connection	EA	5	5,000	\$25,000	6,500	\$32,500	10,500	\$52,500	7,000	\$35,000	10,000	\$50,000
B-4	Telemetry System Wire and Conduit	LF	12,809	6	\$76,854	3	\$38,427	4	\$51,236	3	\$38,427	5	\$64,045
B-5	42" Cement-Mortar Lined and Tape Wrapped Steel Pipe (0.25" Thick)	LF	11,601	380	\$4,408,380	372	\$4,315,572	382	\$1,431,582	495	\$5,742,495	540	\$6,264,540
B-5a	Excavation/Disposal of ADL Soil	CY	200	100	\$20,000	40	\$8,000	100	\$20,000	100	\$20,000	40	\$8,000
B-6	Jack and Bore, 60" WSP Casing	LF	877	1,200	\$1,052,400	1,000	\$877,000	1,200	\$1,052,400	1,200	\$1,052,400	1,500	\$1,315,500
B-7	42" Butterfly Valve	EA	5	50,000	\$250,000	25,000	\$125,000	26,000	\$130,000	22,000	\$110,000	35,000	\$175,000
B-8	Blow Off Valve	EA	7	5,000	\$35,000	8,000	\$56,000	9,000	\$63,000	9,100	\$63,700	9,000	\$63,000
B-9	24" Gate Valve <b>ELIMINATED</b>	EA	2		\$0		\$0		\$0		\$0		\$0
B-10	6" Air/Vacuum Valve	EA	2	14,000	\$28,000	15,000	\$30,000	10,000	\$20,000	5,100	\$10,200	8,000	\$16,000
B-10a	8" Air/Vacuum Valve	EA	2	15,000	\$30,000	15,000	\$30,000	12,000	\$24,000	11,000	\$22,000	10,000	\$20,000
B-10b	10" Air/Vacuum Valve	EA	2	18,000	\$36,000	15,000	\$30,000	17,000	\$34,000	13,000	\$26,000	14,000	\$28,000
B-10c	12" Air/Vacuum Valve	EA	1	22,000	\$22,000	15,000	\$15,000	20,000	\$20,000	13,500	\$13,500	18,000	\$18,000
B-10d	14" Air/Vacuum Valve	EA	1	28,000	\$28,000	15,000	\$15,000	30,000	\$30,000	14,000	\$14,000	30,000	\$30,000
B-11	Temporary Sample Station	EA	5	2,500	\$12,500	2,000	\$10,000	4,000	\$20,000	5,000	\$25,000	3,500	\$17,500
B-12	Salvaging Aqueduct Equipment (Valves, ARV's, Misc. Fittings)	LS	1	15,000	\$15,000	4,000	\$4,000	10,000	\$10,000	5,000	\$5,000	20,000	\$20,000
B-13	Minor Concrete (Ditch Lining)	CY	5	350	\$1,750	2,000	\$10,000	700	\$3,500	1,500	\$7,500	1,800	\$9,000
B-14	Fire Hydrant	EA	3	8,000	\$24,000	7,000	\$21,000	9,000	\$27,000	8,500	\$25,500	8,500	\$25,500
B-15	Cathodic Protection	LS	1	135,000	\$135,000	100,000	\$100,000	100,000	\$100,000	98,000	\$98,000	100,000	\$100,000
B-16	Abandon Existing Pipeline--Fill with CellCrete	LF	7,666	75	\$574,950	10	\$76,660	10	\$76,660	10	\$76,660	24	\$183,984
B-17	Pipe Disinfection Including Dechlorination and Disposal of Disinfection Water	LS	1	90,000	\$90,000	75,000	\$75,000	106,000	\$106,000	25,000	\$25,000	25,000	\$25,000
B-18	12" Flexible Pipe	LF	2,800	100	\$280,000	50	\$140,000	23	\$64,400	60	\$168,000	20	\$56,000
<b>TOTALS B</b>					\$7,549,434		\$6,071,309		\$6,605,779		\$7,796,382		\$8,628,329
<b>Section C Pump Station and HDD Costs (Reach B)</b>													
C-1	Windhaven Pump Station	LS	1	150,000	\$150,000	240,000	\$240,000	175,000	\$175,000	165,000	\$165,000	250,000	\$250,000
C-2	21 Gunn Pump Station	LS	1	35,000	\$35,000	15,000	\$15,000	40,000	\$40,000	45,000	\$45,000	125,000	\$125,000
C-3	Electrical Transformer Pad	EA	1	22,500	\$22,500	5,000	\$5,000	13,000	\$13,000.00	12,000	\$12,000	12,500	\$12,500
C-4	HDD-D1 4" Carrier, PVC in 12" Casing, PVC	LF	340	345	\$117,300	220	\$74,800	170	\$57,800	220	\$74,800	300	\$102,000

North Marin Water District												Project No. 1 7118.03	
AEEP REACHES A-D / MSN B3 Project - Bid Date January 31, 2014													
BASE Bid Items From Bid Schedule (00310)				Engineer's Estimate		Ghilotti Construction		Maggiora & Ghilotti		Ranger Pipelines		Mountain Cascade	
Bid Item No.	Item Description	Unit	Quantity	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
C-5	HDD-D2 4" Carrier, PVC and 2" Conduit in 12" Casing, PVC	LF	439	355	\$155,845	220	\$96,580	160	\$70,240	225	\$98,775	300	\$131,700
C-6	HDD-D3 2" Carrier, PVC in 6" Casing, PVC	LF	356	280	\$99,680	150	\$53,400	94	\$33,464	150	\$53,400	250	\$89,000
C-7	2" PVC Schedule 40 (450 NMWD; 500 Private)	LF	950	80	\$76,000	15	\$14,250	26	\$24,700	35	\$33,250	30	\$28,500
C-8	4" PVC Schedule 40 (NMWD)	LF	500	100	\$50,000	30	\$15,000	48	\$24,000	55	\$27,500	40	\$20,000
C-9	Remove Existing Pump Stations (Windhaven, Gunn Lane)	LS	1	15,000	\$15,000	10,000	\$10,000	6,000	\$6,000	9,500	\$9,500	20,000	\$20,000
<b>TOTALS C</b>					\$721,325		\$524,030		\$444,204		\$519,225		\$778,700
<b>Section D Betterment Project Costs (Reaches C+D)</b>													
D-1	Site Clearing/Demolition	LS	1	15,000	\$15,000	15,000	\$15,000	2,000	\$2,000	16,500	\$16,500	20,000	\$20,000
D-1a	Stump/Rootball Removal (11"-20")	EA	18	400	\$7,200	50	\$900	180	\$3,240	200	\$3,600	80	\$1,440
D-1b	Stump/Rootball Removal (21"-30")	EA	2	2,800	\$5,600	50	\$100	270	\$540.00	500	\$1,000	180	\$360
D-2	Water Service Connection	EA	1	7,000	\$7,000	15,000	\$15,000	11,000	\$11,000	5,500	\$5,500	4,000	\$4,000
D-3	36" Cement-Mortar Lined and Tape Wrapped Steel Pipe (0.25" Thick) (Reaches C+D)	LF	1,935	360	\$696,600	500	\$967,500	420	\$812,700	430	\$832,050	575	\$1,112,625
D-4	30" Butterfly Valve	EA	3	25,000	\$75,000	15,000	\$45,000	8,000	\$24,000	10,500	\$31,500	16,000	\$48,000
D-5	36" Butterfly Valve	EA	1	35,000	\$35,000	17,000	\$17,000	34,000	\$34,000	13,000	\$13,000	20,000	\$20,000
D-6	24" Gate Valve	EA	1	24,000	\$24,000	1,000	\$1,000	20,000	\$20,000	15,000	\$15,000	20,000	\$20,000
D-7	Blow Off Valve	EA	3	5,000	\$15,000	15,000	\$45,000	11,000	\$33,000	9,100	\$27,300	9,000	\$27,000
D-8	Air/Vacuum Valve (10" and 12")	EA	2	22,000	\$44,000	25,000	\$50,000	18,000	\$36,000	13,000	\$26,000	25,000	\$50,000
D-9	Temporary Sample Station	EA	2	1,000	\$2,000	2,000	\$4,000	6,000	\$12,000	5,000	\$10,000	3,500	\$7,000
D-10	Cathodic protection	LS	1	32,000	\$32,000	60,000	\$60,000	7,000	\$7,000	10,000	\$10,000	20,000	\$20,000
D-11	Pipe Disinfection Including Dechlorination and Disposal of Disinfection Water	LS	1	11,500	\$11,500	10,000	\$10,000	13,000	\$13,000	4,500	\$4,500	20,000	\$20,000
D-12	Hard Rock Excavation	CY	100	100	\$10,000	1	\$100	225	\$22,500	100	\$10,000	375	\$37,500
<b>TOTALS D</b>					\$979,900		\$1,230,600		\$1,030,980		\$1,005,950		\$1,387,925
<b>Section E Betterment Project Costs (except as noted) (Reach A)</b>													
E-1	8" Cement-Mortar Lined and Tape Wrapped Steel Pipe (0.25" Thick) (Reach A) (Kastania Rd)	LF	1,540	180	\$277,200	90	\$138,600	100	\$154,000	180	\$277,200	200	\$300,000
E-1a	HDD (D4 and W8) 8" Carrier, PVC in 16" Casing, PVC	LF	293	350	\$102,550	300	\$87,900	260	\$76,180	270	\$79,110	350	\$102,550
E-1b	HDD (D5) 8" PVC (Kastania Rd.)	LF	150	300	\$45,000	200	\$30,000	150	\$22,500	210	\$31,500	300	\$45,000
E-2	Site Clearing	LS	1	25,000	\$25,000	1,000	\$1,000	3,000	\$3,000	17,500	\$17,500	20,000	\$20,000
E-3	Telemetry System Wire and Conduit	LF	4,066	6	\$24,396	2	\$8,132	2	\$8,132	3	\$12,198	5	\$20,330
E-4	42" Cement-Mortar Lined and Tape Wrapped Steel Pipe (0.25" Thick)	LS	1,990	380	\$756,200	600	\$1,194,000	528	\$1,050,720	490	\$975,100	700	\$1,393,000
E-5	Jack and Bore, 60" WSP Casing	LF	150	1,200	\$180,000	1,000	\$150,000	1,600	\$240,000	1,200	\$180,000	2,000	\$300,000
E-6	42" Butterfly Valve	EA	2	50,000	\$100,000	25,000	\$50,000	25,000	\$50,000	22,000	\$44,000	35,000	\$70,000
E-7	30" Butterfly Valve	EA	2	25,000	\$50,000	30,000	\$60,000	13,500	\$27,000	10,500	\$21,000	24,000	\$48,000
E-8	Blow Off Valve	EA	3	5,000	\$15,000	8,000	\$24,000	8,500	\$25,500	9,100	\$27,300	9,000	\$27,000
E-9	Air/Vacuum Valve (8" and 10")	EA	2	15,000	\$30,000	15,000	\$30,000	15,000	\$30,000	13,000	\$26,000	12,000	\$24,000
E-10	Fire Hydrant	EA	2	8,000	\$16,000	7,000	\$14,000	11,000	\$22,000	8,500	\$17,000	11,000	\$22,000
E-11	Cathodic Protection	LS	1	32,000	\$32,000	10,000	\$10,000	6,000	\$6,000	5,000	\$5,000	20,000	\$20,000
E-12	Pipe Disinfection Including Dechlorination and Disposal of Disinfection Water	LS	1	17,900	\$17,900	10,000	\$10,000	13,000	\$13,000	4,000	\$4,000	20,000	\$20,000
E-13	Abandon Pipeline--Fill with CellCrete	LF	1,534	75	\$115,050	50	\$76,700	10	\$15,340	10	\$15,340	28	\$42,952
E-14	Water Service Connection	EA	1	5,000	\$5,000	5,000	\$5,000	5,000	\$5,000	5,500	\$5,500	2,500	\$2,500
<b>TOTALS E</b>					\$1,791,296		\$1,889,332		\$1,748,372		\$1,737,748		\$2,465,332
<b>Section F Traffic Control</b>													
F-1	Temporary Erosion Control/Water Pollution Control	LS	1	40,000	\$40,000	1,000	\$1,000	5,500	\$5,500	4,000	\$4,000	4,200	\$4,200
F-2	Construction Area Signs	LS	1	30,000	\$30,000	15,000	\$15,000	15,900	\$15,900	13,000	\$13,000	13,500	\$13,500
F-3	Temporary Traffic Stripe (Paint)	LF	23,200	0.50	\$11,600	0.25	\$5,800	1	\$23,200	0.25	\$5,800	0.70	\$16,240
F-4	Channelizer (Surface Mounted)	EA	46	25	\$1,150	65	\$2,990	15	\$690	40	\$1,840	42	\$1,932
F-5	Temporary Pavement Marker	EA	990	3	\$2,970	2	\$1,980	5	\$4,950	5	\$4,950	2	\$1,980
F-6	Temporary Railing (Type K)	LF	23,300	9	\$209,700	10	\$233,000	21	\$489,300	9	\$209,700	10	\$233,000
F-7	Temporary Crash Cushion Module	EA	28	100	\$2,800	200	\$5,600	350	\$9,800	155	\$4,340	160	\$4,480
F-8	Temporary Crash Cushion (Absorb 350)	EA	14	7,500	\$105,000	4,000	\$56,000	350	\$4,900	1,600	\$22,400	1,650	\$23,100

BASE Bid Items From Bid Schedule (00310)				Engineer's Estimate		Ghilotti Construction		Maggiore & Ghilotti		Ranger Pipelines		Mountain Cascade	
Bid Item No.	Item Description	Unit	Quantity	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
F-9	Temporary Traffic Screen	LF	14,800	2	\$29,600	4	\$59,200	5	\$74,000	4	\$59,200	4.25	\$62,900
F-10	Remove Yellow Thermoplastic Traffic Stripe (Hazardous Waste)	LF	4,200	0.80	\$3,360	2.40	\$10,080	2.50	\$10,500	2.40	\$10,080	2	\$8,400
F-11	Remove Metal Beam Guard Rail	LF	160	15	\$2,400	30	\$4,800	13	\$2,080	6	\$960	6.50	\$1,040
F-12	Remove Double Metal Beam Barrier	LF	2,800	15	\$42,000	10	\$28,000	9.50	\$26,600	7	\$19,600	7.50	\$21,000
F-13	Remove Thermoplastic Traffic Stripe	LF	3,200	0.30	\$960	1	\$3,200	1	\$3,200	1	\$3,200	1.25	\$4,000
F-14	Remove Pavement Marker	EA	350	1	\$350	2	\$700	2	\$700	2	\$700	1.10	\$385
F-15	Remove Base and Surfacing	CY	3,400	8	\$27,200	15	\$51,000	21	\$71,400	22	\$74,800	23	\$78,200
F-16	Cold Plane Asphalt Concrete Pavement	SQYD	1,900	5	\$9,500	5	\$9,500	5	\$9,500	6	\$11,400	6.50	\$12,350
F-17	Remove Concrete (Channel)	CY	110	75	\$8,250	150	\$16,500	145	\$15,950	55	\$6,050	60	\$6,600
F-18	Roadway Excavation (Earthwork)	CY	805	15	\$12,075	25	\$20,125	30	\$24,150	25	\$20,125	26	\$20,930
F-19	Road Excavation (Type Y-1)(Aerially Deposited Lead)	CY	1,700	25	\$42,500	25	\$42,500	17	\$28,900	25	\$42,500	26	\$44,200
F-20	Import Borrow (NMWD Advance Grading) (Earthwork)	CY	3,610	25	\$90,250	1	\$3,610	20	\$72,200	8	\$28,880	9	\$32,490
F-21	Miscellaneous Iron & Steel (Minor Structure)	LB	526	1.50	\$789	2	\$1,052	4	\$2,104	3	\$1,578	3	\$1,578
F-22	Minor Concrete (Minor Structure)	CY	5	800	\$4,000	1,000	\$5,000	700	\$3,500	2,100	\$10,500	2,200	\$11,000
F-23	12" Reinforced Concrete Pipe (Site Drainage)	LF	160	30	\$4,800	50	\$8,000	100	\$16,000	103	\$16,480	110	\$17,600
F-24	12" Alternative Flared End Section (Site Drainage)	EA	4	300	\$1,200	500	\$2,000	1,100	\$4,400	500	\$2,000	525	\$2,100
F-25	Rock Slope Protection (No. 2, Method B) (Slope Protection & Rip-Rap)	CY	19	150	\$2,850	200	\$3,800	170	\$3,230	220	\$4,180	225	\$4,275
F-26	Rock Slope Protection Fabric (Class 8)	SQYD	64	5	\$320	5	\$320	7	\$448	10	\$640	11	\$704
F-27	Remove Headwall	EA	1	850	\$850	1,000	\$1,000	1,400	\$1,400	2,100	\$2,100	2,200	\$2,200
F-28	Remove Wingwall	CY	4	110	\$440	1,000	\$4,000	350	\$1,400	900	\$3,600	950	\$3,800
F-29	Class 4 Aggregate Subbase	CY	2,000	19	\$38,000	25	\$50,000	38	\$76,000	40	\$80,000	42	\$84,000
F-30	Class 2 Aggregate Base	CY	2,800	30	\$84,000	25	\$70,000	38	\$106,400	55	\$154,000	58	\$162,400
F-31	Hot Mix Asphalt (Type A)	TON	3,700	100	\$370,000	80	\$296,000	143	\$529,100	113	\$418,100	120	\$444,000
F-32	Tack Coat	TON	4	700	\$2,800	500	\$2,000	2,400	\$9,600	500	\$2,000	525	\$2,100
F-33	Concrete (Ditch Lining) (Minor Structure)	CY	150	400	\$60,000	400	\$60,000	350	\$52,500	420	\$63,000	425	\$63,750
F-34	Slope Paving (Concrete) (Minor Structure)	CY	20	550	\$11,000	430	\$8,600	650	\$13,000	700	\$14,000	725	\$14,500
F-35	Metal Beam Guard Railing (Wood Post)	LF	160	30	\$4,800	50	\$8,000	45.5	\$7,280	29	\$4,640	32	\$5,120
F-36	Double Thrie Beam Barrier (Wood Post)	LF	2,800	40	\$112,000	35	\$98,000	36	\$100,800	39	\$109,200	42	\$117,600
F-37	4" Thermoplastic Traffic Stripe	LF	13,500	0.40	\$5,400	0.60	\$8,100	0.60	\$8,100	0.60	\$8,100	0.70	\$9,450
F-38	4" Thermoplastic Traffic Stripe (Broken 36-12)	LF	4,000	0.40	\$1,600	0.60	\$2,400	0.60	\$2,400	0.60	\$2,400	0.70	\$2,800
F-39	Pavement Marker (Non-Reflective)	EA	328	2.50	\$820	3	\$984	5	\$1,640	3	\$984	6	\$1,968
F-40	Pavement Marker (Retroreflective)	EA	171	3.50	\$599	5	\$855	5	\$855	4.50	\$770	6	\$1,026
F-41	Reset Roadside Sign (Removal & Salvage of Roadway Equipment)	EA	13	200	\$2,600	350	\$4,550	365	\$4,745	300	\$3,900	325	\$4,225
F-42	Reset Callbox (Removal & Salvage of Roadway Equipment)	EA	3	5,000	\$15,000	1,500	\$4,500	820	\$2,460	700	\$2,100	725	\$2,175
F-43	Reset Traffic Flow Sensor (Removal & Salvage of Roadway Equipment)	EA	1	10,000	\$10,000	5,000	\$5,000	1,500	\$1,500	2,500	\$2,500	2,600	\$2,600
<b>TOTALS F</b>					\$1,406,000		\$1,214,746		\$1,842,282		\$1,450,297		\$1,551,898
SUBTOTAL BASE BID (A THROUGH F)					\$14,030,063		\$12,275,517		\$12,444,444		\$13,524,502		\$15,747,684
10% CONTINGENCY					\$1,403,006		0		0		0		0
<b>TOTAL BASE BID</b>					<b>\$15,433,069</b>		<b>\$12,275,517</b>		<b>\$12,444,444</b>		<b>\$13,524,502</b>		<b>\$15,747,684</b>

**NORTH MARIN WATER DISTRICT  
WATER SYSTEM CAPITAL IMPROVEMENT PROJECTS  
PROJECT SUMMARY  
(as of Jan. 31, 2014)**

COMPLETED BY: Drew McIntyre  
DATE: 1/13/2011

UPDATED BY: Drew McIntyre  
DATE: 2/11/2014

SERVICE AREA:  **NOVATO**

**WEST MARIN**

**OCEANA MARIN**

<b>Job No.</b>	1.7118.XX	<b>Title: Aqueduct Energy Efficiency Project</b>	<b>Facility Type (Pipelines, Pump Stations, etc.):</b> Treatment Plant
----------------	-----------	--	--

**Description:**  
Upsize from 30" to 42" approximately 20,400 feet of NMWD's aqueduct that is being relocated as part of CalTrans Marin Sonoma Narrows (MSN) B1 and B3 projects. In addition, construct approx. 2,500 feet of parallel 36" pipe for the gap closure between B1 and B3 and also extend a new 42" pipe approximately 2,500 feet from the south end of Kastania Rd to the Kastania PS (along the east side of Hwy).

**Project Justification:**  
The MSN project will require relocation of approx. 80% of NMWD's aqueduct from Kastania PS to Redwood Landfill Overpass. The incremental cost to increase this segment of the pipeline is only about 12% of the total project cost. Furthermore, removing Kastania PS from service will save \$25M to \$38 M over the life of the project (100 to 150 years). Of that savings, NMWD would save \$3.7M to \$5.6M over the life of the project.

	Baseline Cost Estimate	Initial (1/11)	Update (11/13)	Update (2/14)	Expended to Date	Baseline Schedule	Start	Finish (Est.)	Finish (Actual)
1	Project Development (thru FY10)	\$12,000	\$12,000	\$12,000	\$12,000	Project Dev.	Sep-09	Jun-10	Jun-10
2	Design (1)	\$270,000	\$431,000	\$524,000	\$506,000	Design	Jan-11	Aug-11	
3	EIR Phase (2)	\$335,200	\$335,200	\$335,200	\$335,200	Permitting	Sep-09	Jul-11	
4	Geotechnical(3)	\$30,000	\$30,000	\$30,000	\$30,000	Const. Rch E	Mar-13	Mar-14	
5	Const. for Reach E & B Betterment (4)	\$3,042,950	\$2,116,000	\$1,887,071	\$328,000	Const. Rch A-D	Mar-14	Aug -15	
6	Construction for Gap Closures (5)	\$2,825,000	\$2,894,572	\$3,134,250		Project Closeout	Aug -15	Oct -15	
7	HWY 101 Encroachment (6)	\$780,000	\$327,600	\$366,900					
	Depreciation (7)	\$0	\$60,026	\$60,026					
8	Const. Management/Administration (8)	\$600,000	751,586	808,233					
9	SubTotal	\$7,895,150	\$6,957,983	\$7,157,680	\$1,211,200				
#	Project Contingency (9)	\$394,758	\$347,899	\$357,884					
	<b>Total</b>	<b>\$8,289,908</b>	<b>\$7,305,882</b>	<b>7,515,564</b>	<b>\$1,211,200</b>				

**Comments:**  
 (1) total Pt 04 cost as of Jan 2014 is \$853K - \$12K-\$335K-\$30K= \$476K \*1.1 (estimate to finish) = \$524K  
 (2) W&K initial CEQA of \$73,782 plus \$236,400 extra for full EIR plus \$25K contingency  
 (3) Estimate for gap closure and Kastania Extension only  
 (4) B1 (\$427K) + B3 Shared (\$347,548+\$114,344=\$461,892) \* 1.05 cont + B3 Betterment \$ (\$100,000+828,652=\$928,652) \*1.05 (B3 from  
 (5) Reach A (\$1769K) + Reach C/D (\$1216K) = \$2985K\*1.05 cont = \$3134K, from CSW est revised Feb 3 2014  
 (6) \$349,440\*1.05 based on 1,092 feet from CSW est revised Feb 3 2014  
 (7) 10,519 of Reach B depreciated at (10,519/10,882)\*\$62,097 (refer to Dec 5 2011 DMc depreciation memo, File 7118.01)  
 (8) Estimate at 15% of construction cost of Item 5,6&7  
 (9) Estimate at only 5% since construction costs already have a built in contingency

8

## MEMORANDUM

To: Board of Directors

Date: February 14, 2014

From: Drew McIntyre, Chief Engineer



Subject: Approve Utility Agreement between the State of California and North Marin Water District for Caltrans' MSN B3 and NMWD's AEEP Reach A-D Projects

R:\Folders by Job No\7000 jobs\7118\CalTrans Agreements\Utility\B3\7118 CalTrans MSN B3 Util Agmt BOD Memo 2-14-14.doc

**RECOMMENDED ACTION:** Authorize the General Manager to execute Utility Agreement No. 1780.1

**FINANCIAL IMPACT:** Up to \$979,684 (includes 5% contingency)

### Background

On July 27, 2009 Caltrans approved the Marin Sonoma Narrows (MSN) High Occupancy Vehicle (HOV) Widening Project. The Caltrans MSN project will widen and realign Highway 101 to accommodate HOV lanes and new and upgraded frontage roads and ramps. The Caltrans MSN project includes construction of an expanded freeway interchange at the Redwood Landfill exit and construction of new frontage roads between Novato and Petaluma. These improvements extend the Highway right-of-way into portions of the NMWD's pipeline easement for the existing North Marin aqueduct and therefore Caltrans must relocate much of the aqueduct as part of the Caltrans MSN project.

In 2007, the NMWD Board of Directors instructed staff to investigate increasing the diameter of the aqueduct to reduce pumping at the Kastania Pump Station. Hydraulic modeling performed by NMWD indicated that upsizing portions of the aqueduct from the existing 30-inch diameter pipeline to a 42-inch diameter pipeline would allow the aqueduct to convey flows by gravity alone and completely eliminate the need for Kastania Pump Station operation, thereby reducing energy consumption and the production of greenhouse gases, as well as saving costs at the pump station and improving water delivery reliability.

At the July 19, 2011 meeting, the Board approved what is now known as the District's Aqueduct Energy Efficiency (AEE) Project. The AEE project increases the diameter of portions of the aqueduct from 30-inches to 42-inches and, as previously mentioned, is driven by the relocation required by Caltrans' MSN project.

The AEE project has been divided into pipeline reaches. A map of the pipeline reaches and corresponding Caltrans MSN Segment B project numbers is provided in Attachment 1. The pipeline reaches are labeled from north to south beginning at the Kastania Pump Station (labeled as Reach A) and ending near Olompali State Park (labeled as Reach E). Two reaches, Reach B and E, require relocation as part of the respective Caltrans MSN B3 and



B1 projects. The Reach E segment is now substantially complete and a close-out report will be brought to the Board in March. With respect to this next aqueduct relocation phase (i.e., Reaches A-D) the bulk of the construction costs for the AEE Project Reach B segment will be borne by Caltrans. The three other reaches of the AEE Project (A, C & D) are new pipelines to close gaps between the Caltrans MSN relocation segments and will be constructed as part of the AEE project and 100% funded by NMWD.

A Summary of the Caltrans MSN/AEE Projects is provided in the following table:

<i>CALTRANS MSN/AEE PROJECT SUMMARY</i>				
PROJECT	ACTIVITY	BID ADVERTISE <sup>(1)</sup> DATE	CONSTRUCTION CONTRACT MANAGEMENT	AQUEDUCT WORK
MSN B1	Reach E	April, 2012	CT	Completed
MSN B2	Temporary Bypass	April, 2012	CT	Fall 2013- Spring 2015 <sup>(1)</sup>
AEEP/MSN B3	Reaches A-D	December, 2013	NMWD	Spring 2014 – Summer 2015

<sup>(1)</sup>May not be required based on current AEEP Reach A-D schedule

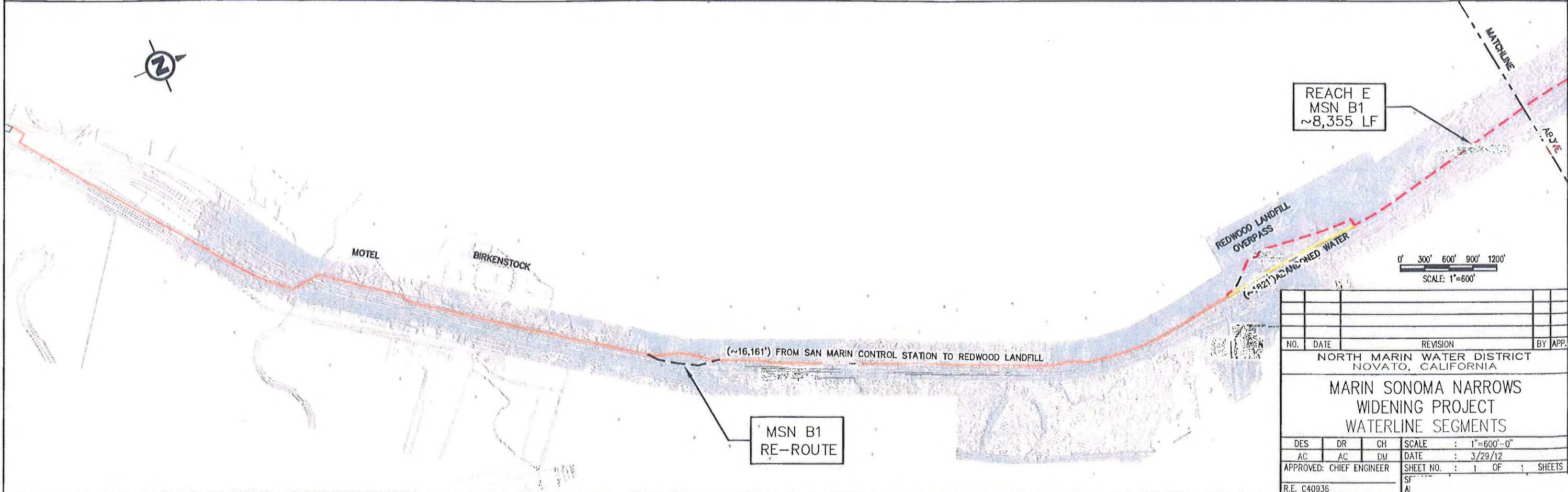
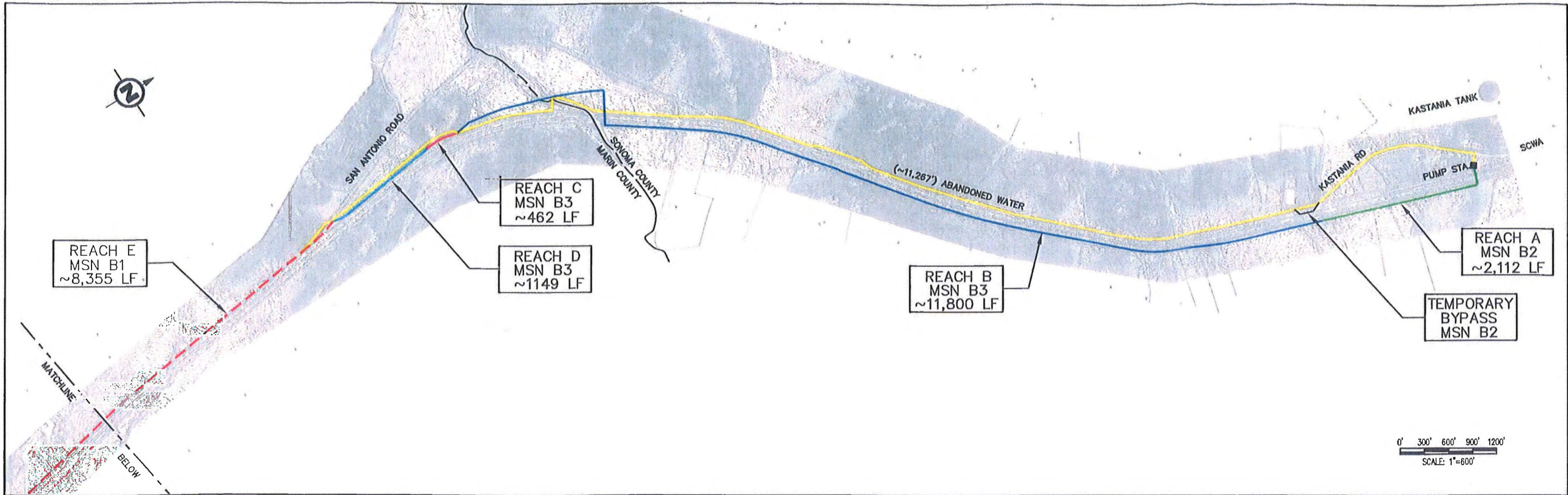
AEE Reaches A-D/MSN B3 Project

As described above, AEEP/MSN B3 is to be constructed as a NMWD project with the bulk of relocation costs for Reach B paid by Caltrans (at 90.3%). Accordingly, it is necessary for Caltrans and North Marin Water District to enter into a contractual arrangement for relocation of the MSN B3 (aka Reach B) segment. The attached Utility Agreement (Attachment 2) defines said roles and responsibilities as well as identifies costs allocated between both agencies related to this reach. The Utility Agreement has been under the review by Caltrans and NMWD staff for several months and the agreement has also been reviewed by District legal counsel. The total estimated pipeline relocation construction cost for the MSN B3 (aka Reach B) segment is approximately \$10,097,000. Most of that cost is paid for by Caltrans as it relates to relocation costs for a 30-inch pipeline. The upsizing costs for a 42-inch diameter pipeline within Reach B is estimated to not exceed \$979,684 and will be paid by NMWD. Refer to the separate related Board item for a review of total project costs.

RECOMMENDATION

Authorize the General Manager to execute Utility Agreement No. 1780.1





NO.	DATE	REVISION	BY	APP.
NORTH MARIN WATER DISTRICT NOVATO, CALIFORNIA				
<b>MARIN SONOMA NARROWS WIDENING PROJECT WATERLINE SEGMENTS</b>				
DES	DR	CH	SCALE	: 1"=600'-0"
AC	AC	DM	DATE	: 3/29/12
APPROVED: CHIEF ENGINEER			SHEET NO.	: 1 OF 1 SHEETS
R.E. C40936			SF	AI

Mar 30, 2012 - 7:57am W:\02B\MISC\Presentation\Sonoma Narrows\Water Line MSN.dwg User: ACANTILLER



**DEPARTMENT OF TRANSPORTATION**

DISTRICT 4  
ATTN.: EDGAR VELEZ  
P.O. BOX 23440  
OAKLAND, CA 94623-0440  
PHONE: (510) 286-5432  
FAX: (510) 286-5366



February 12, 2014

North Marin Water District  
Mr. Chris DeGabriele, General Manager  
999 Rush Creek Place  
P.O. Box 146  
Novato, Ca 94928

Dist./Co./Rt.: 04-Mrn/Son-101  
PM: 27.0/27.6 / 0.0/1.9  
EA: 264099  
Ut. No. : 1780.1  
(Aqueduct)

Dear Mr. DeGabriele,

Enclosed is a previously sent copy of Notice to Owner No. 1780.1 dated November 18, 2013 and encroachment permit covering the preparation for utility relocation of North Marin Water District's 30 inch water line running north and south along US Route 101 in Marin and Sonoma Counties. As you are aware, the relocation is necessary in order to accommodate the re-construction and re-alignment of US Route 101 at San Antonio Road, construct a new bridge over San Antonio Creek and convert a portion of the existing north-bound highway to a frontage road in Marin and Sonoma Counties.

This Notice to Owner was prepared in accordance with North Marin Water District's plan No.1.7118.09 dated August 8, 2013 for the relocation of approximately 11,611 feet of 30 inch water line. The Department of Transportation request that all work be completed by July 30, 2015.

Also enclosed are four copies of Utility Agreement 1780.1 covering North Marin Water District's 30 inch water line relocation. The estimated cost of this work shall be \$10,097,000.00, at 90.3% State's expense pursuant to 703 of the Street and Highway code. Attachments to Utility Agreement 1780.1, attachment "A" roles and responsibilities and Environmental Commitment Record will follow shortly.

If the Utility Agreement is satisfactory, please have the appropriate official(s) within your organization sign and date three of the copies and return them to this office for execution. Please retain the other copy for your records. After all the appropriate parties have signed, a fully executed Utility Agreement will be returned to you.

If you have any further questions please call me at 510-286-5432. Your attention to this matter is greatly appreciated.

Sincerely,

EDGAR E. VELEZ  
Associate Right of Way Agent  
Utility Services - North

**NOTICE TO OWNER**

RW 13-4 (1/2012)

**No. 1780.1**

DIST.	COUNTY	ROUTE	P.M.	E.A.
4	Mrn / Son	101	27.0 / 27.6 0.0 / 1.9	264099
Federal Aid No. N/A				
Owner's File No. 1.7118.09				
Date: November 18, 2013			Freeway Yes [X] No [ ]	

North Marin Water District  
 Mr. Drew McIntyre, P.E.  
 999 Rush Creek Place, P.O. Box 146  
 Novato, Ca 94948

**Because of the State Highway construction project:** Reconstruct and re-align, US Route 101 at the San Antonio Road curve in Marin and Sonoma Counties (PM 27.0/27.6, 0.0/1.9).

**Which affects your facilities:** Approximately 11,611 feet of 30 inch aqueduct, along north-bound US Route 101 from engineer's station "A" line 6520+100 to 6665+100, in Marin and Sonoma Counties.

**You are hereby ordered to:** Relocate your 30 inch aqueduct and make all necessary preparations for said relocation as shown on your plan no. 1.7118.09 dated August 8, 2013.

**Your work schedule shall be as follows:** Commence your preparation work for said relocation by January 15, 2014 or as soon as possible and have it completed prior to April 30, 2015, or as directed by the State's Resident Engineer, whichever is later.

**Notify:** Nasr Faraq the Utility Construction Coordinator at (510) 376-8115 and Christopher Blunk the Resident Engineer at 510 385-6886, Unless otherwise approved by State's Engineer a minimum of one week prior to initial start of work under this permit, and 24 hours prior to subsequent restart when the work schedule is interrupted.

**Liability for the cost of work is:** 100% State's expense in accordance with Section 703 of the Street and Highway code.

**BIJAN SARTIPI**

District Director

**MARK L. WEAVER**

Deputy District Director

cc: Utility Construction Coordinator  
 Permits

By:   
**JOHN O. CARLSTON**  
 District Branch Chief

**THIS NOTICE DOES NOT CONSTITUTE A PERMIT. OBTAIN AN ENCROACHMENT PERMIT BEFORE STARTING WOR**

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**ENCROACHMENT PERMIT**

TR-0120

Permit No. <b>0413-NUR2169</b>	
Dist/Co/Rte/PM 04-MRN/SON-101 27.0/27.6 and 0.0/1.9	
Date November 21, 2013	
Fee Paid \$	Deposit \$
Performance Bond Amount (1) \$	Payment Bond Amount (2) \$
Bond Company	
Bond Number (1)	Bond Number (2)

In compliance with (Check one):

- Your application of \_\_\_\_\_
- Utility Notice No. 1780.1 of Nov. 18, 2013
- Agreement No. \_\_\_\_\_ of \_\_\_\_\_
- R/W Contract No. \_\_\_\_\_ of \_\_\_\_\_

TO:  North Marin Water District  
 999 Rush Creek Place  
 P.O. Box 146  
 Novato, CA 94948  
 Attn: Drew McIntyre  
 Phone: \_\_\_\_\_

, PERMITTEE

and subject to the following, PERMISSION IS HEREBY GRANTED to:

Relocate your company's 30-inch aqueduct to accommodate the construction of US Route 101 ( State project EA: 264099) in the manner proposed. Relocate your facilities as shown on your plan no. 1.7118.09 dated August 8, 2013, on Highway 101, PM 27.0/27.6 and PM 0.0/1.9, in the Counties of Marin and Sonoma.

A minimum of one week prior to the start of work under this permit, notice shall be given and advance approval of construction detail, operations, public safety, and traffic control shall be obtained from State Representative Nasr Farag, (510) 376-8115 and Resident Engineer Christopher Blunk, (510) 385-6886 weekdays between 7:30 AM and 4:15 PM, Monday to Friday, holidays excluded

All utility work shall be performed in accordance with the appropriate provisions contained in the Department of Transportation Encroachment Permit Utility and Tree Trimming Special Provisions dated July 2009. All permitted work requires the permittee to apply for and obtain a work authorization number prior to start of work. See the attached "Encroachment Permit Work Scheduling Procedures" and the attached "Encroachment Permit Work Scheduling Request Form". Additional time beyond the minimum seven-day advance notice required in the above paragraph may be required for obtaining the traffic control approval. Immediately following completion of the work permitted herein, the permittee shall fill out and mail the Notice of Completion attached to this permit.


<p>The following attachments are also included as part of this permit (Check applicable):</p> <p><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    General Provisions</p> <p><input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No    Utility Maintenance Provisions</p> <p><input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No    Storm Water Special Provisions</p> <p><input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No    A Cal-OSHA permit required prior to beginning work: # _____</p>	<p>In addition to fee, the permittee will be billed actual costs for:</p> <p><input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No    Review</p> <p><input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No    Inspection</p> <p><input checked="" type="checkbox"/> Yes    -----    Field Work</p> <p>(If any Caltrans effort expended)</p>
--	--

Yes     No    The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before As directed

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.  
 No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

FP  
 cc: W. Hauke (2),  
 Utility Coord - N. Farag  
 Resident Engr. - C. Blunk

APPROVED:  
**BIJAN SARTIPI, District Director**  
 BY:  
  
**DAVID SALLADAY, District Permit Engineer**

**UTILITY AGREEMENT**

District	County	Route	P.M.	PROJECT ID
4	MRN, SON	101	27.0/27.6, 0.0/1.9	04-0002-0735-9 (264099)
<b>Fed. Aid. No.</b>				
<b>Owner's File: 1.7118.09</b>				
<b>FEDERAL PARTICIPATION:</b> On the Project <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No On the Utilities   <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

**UTILITY AGREEMENT NO. 1780.1                      DATE \_\_\_\_\_**

The State of California, acting by and through the Department of Transportation, hereinafter called "STATE", proposes to re-construct and re-align US Route 101 at San Antonio Road, construct a new bridge over San Antonio Creek and convert a portion of the existing north-bound highway to a frontage road in Marin and Sonoma Counties. North Marin Water District, hereinafter called "OWNER", owns and maintains approximately 11,601 feet of 30" aqueduct within the limits of STATE's project that require relocation to accommodate STATE's project.

**It is hereby mutually agreed that:**

**I.        WORK TO BE DONE**

In accordance with Notice to Owner No. 1780.1, dated November 18, 2013, OWNER shall relocate its 30" water line located approximately between engineer's station "water line" 6522+181 and 6680+104 in order to accommodate construction of the STATE's project. All work shall be performed substantially in accordance with OWNER's Plan No. 1.7118.09 (along with attachment "A"), dated December 9, 2013, and STATE's plans for this project, copies of which are on file in the District office of the Department of Transportation at 111 Grand Avenue, Oakland, CA 94612-3771.

Deviations from the OWNER's plan described above initiated by either the STATE or the OWNER, shall be agreed upon by both parties hereto under a Revised Notice to Owner. Such Revised Notices to Owner, approved by the STATE and acknowledged by the OWNER, will constitute an approved revision and hereby made a part hereof. No work under said deviation shall commence prior to receipt by the OWNER of the Revised Notice to Owner. Changes in the scope of the work will require an amendment to this Agreement in addition to the Revised Notice to Owner.

UTILITY AGREEMENT NO. 1780.1

**II. LIABILITY FOR WORK**

The existing facilities described in Section I. above will be relocated at 90.3% STATE expense in accordance with Section 703 of the California Streets and Highways Code, less applicable credits for facility betterment and portion of facility installed pursuant to a State Encroachment Permit:

Total Estimated Relocation Cost: .....	\$10,097,000.00
Less Facility Betterment Cost:.....	\$557,735.00
Less 1,092' of Facility Installed Pursuant to Encroachment Permit:.....	\$421,949.00
Total Estimated STATE Liability, (approximately 90.3%):.....	<u>\$9,117,316.00</u>

**III. PERFORMANCE OF WORK**

OWNER agrees to perform the herein described work with its own forces or to cause the herein described work to be performed by the OWNER's contractor, employed by written contract on a continuing basis to perform work of this type, and to provide and furnish all necessary labor, materials, tools and equipment required therefor, and to prosecute said work diligently to completion.

Pursuant to Public Works Case No. 2001-059 determination by the California Department of Industrial Relations dated October 25, 2002, work performed by OWNER's contractor is a public work under the definition of Labor Code section 1720(a) and is therefore subject to prevailing wage requirements. OWNER shall verify compliance with this requirement in the administration of its contracts referenced above.

Use of out-of-state personnel (or personnel requiring lodging and meal per diem expenses) will not be allowed without prior written authorization by state's representative. Requests for such authorization must be contained in OWNER's estimate of actual and necessary relocation costs. Accounting Form FA 1301 is to be completed and submitted for all non-state personnel travel per diem. OWNER shall include an explanation why local employee or contract labor is not considered adequate for the relocation work proposed. Per diem expenses shall not exceed the per diem expense amounts allowed under the State's Department of Personnel Administration travel expense guidelines.

**IV. PAYMENT FOR WORK**

The STATE shall pay its share of the actual and necessary cost of the herein described work within 45 days after receipt of five (5) copies of OWNER's itemized bill, signed by a responsible official of OWNER's organization and prepared on OWNER's letterhead, compiled on the basis of the actual and necessary cost and expense. The OWNER shall maintain records of the actual costs incurred and charged or allocated to the project in accordance with recognized accounting principles.

It is understood and agreed that the STATE will not pay for any betterment or increase in size of OWNER's facilities in the new location and that OWNER shall give credit to the STATE for all accrued depreciation on the replaced facilities and for the salvage value of any material or parts salvaged and retained or sold by OWNER.



Not more frequently than once a month, but at least quarterly, OWNER will prepare and submit progress bills for costs incurred not to exceed OWNER's recorded costs as of the billing date less estimated credits applicable to completed work. Payment of progress bills not to exceed the amount of this Agreement may be made under the terms of this Agreement. Payment of progress bills which exceed the amount of this Agreement may be made after receipt and approval by STATE of documentation supporting the cost increase and after an Amendment to this Agreement has been executed by the parties to this Agreement.

The OWNER shall submit a final bill to the State within 360 days after the completion of the work described in Section I above. If the STATE has not received a final bill within 360 days after notification of completion of OWNER's work described in Section I of this Agreement, and STATE has delivered to OWNER fully executed Director's Deeds, Consents to Common Use or Joint Use Agreements (if applicable) as required for OWNER's facilities, STATE will provide written notification to OWNER of its intent to close its file within 30 days and OWNER hereby acknowledges, to the extent allowed by law, that all remaining costs will be deemed to have been abandoned.

The final billing shall be in the form of an itemized statement of the total costs charged to the project, less the credits provided for in this Agreement, and less any amounts covered by progress billings. However, the STATE shall not pay final bills which exceed the estimated cost of this Agreement without documentation of the reason for the increase of said cost from the OWNER. If the final bill exceeds the OWNER's estimated costs solely as the result of a revised Notice to Owner as provided for in Section I, a copy of said revised Notice to Owner shall suffice as documentation.

In any event if the final bill exceeds 125% of the estimated cost of this Agreement, an Amended Agreement shall be executed by the parties to this Agreement prior to the payment of the OWNER'S final bill. Any and all increases in costs that are the direct result of deviations from the work described in Section I of this Agreement shall have the prior concurrence of STATE.

Detailed records from which the billing is compiled shall be retained by the OWNER for a period of three years from the date of the final bill and will be available for audit by State and/or Federal auditors. OWNER, in conjunction with the STATE, agrees to comply with audit principles and standards as set forth in 48 CFR, Chapter 1, Part 31, et. Seq., 23 CFR Chapter 1, Part 645 and/or 18 CFR Parts 101, 201, et al. If a subsequent STATE and/or Federal audit determines payments to be unallowable, OWNER agrees to reimburse STATE upon receipt of STATE billing.

## **V. GENERAL CONDITIONS**

All costs accrued by OWNER as a result of STATE's request of March 21, 2012 to review, study and/or prepare plans and estimates for the work associated with this Agreement may be billed pursuant to the terms and conditions of this Agreement.

If STATE's project which precipitated this Agreement is canceled or modified so as to eliminate the necessity of work by OWNER, STATE will notify OWNER in writing and STATE reserves the right to terminate this Agreement by Amendment. The Amendment shall provide mutually acceptable terms and conditions for terminating the Agreement.



UTILITY AGREEMENT NO. 1780.1
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If OWNER is informed by STATE of the cancellation or modification of STATE's project, and this Agreement is terminated, costs incurred by OWNER up to the time of said notification and/or termination shall be considered wasted work. STATE shall be responsible for compensating OWNER for wasted work. OWNER shall submit a written statement of actual wasted work costs to the STATE. A separate Utility Agreement obligating the STATE to compensate OWNER for wasted work shall be executed by both parties.

OWNER agrees to comply and to require its contractors to comply with the "Buy America" requirements set forth in the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) Sections 1041(a) and 1048(a), 23 U.S.C. 313 and 23 C.F.R. Part 635.410, which are incorporated into this Agreement by reference, and which require that all steel and iron products, and their coatings, used in FHWA-funded projects are produced in the United States, unless a waiver has been granted by FHWA or the product is subject to a general waiver.

OWNER shall indemnify and defend Caltrans for any claims or liability arising out of the OWNER's failure to comply with the "Buy America" requirement.

STATE will acquire new rights of way in the name of either the STATE or OWNER through negotiation or condemnation and when acquired in STATE's name, shall convey same to OWNER by Director's Easement Deed. STATE's will convey to OWNER property rights for OWNER's relocated facilities equivalent to the rights OWNER possessed before the STATE's project necessitated relocation.

STATE's liability for such rights of way will be at the proration shown for relocation work involved under this Agreement.

All obligations of STATE under the terms of this Agreement are subject to the passage of the annual Budget Act by the State Legislature and the allocation of those funds by the California Transportation Commission.

OWNER shall submit a Notice of Completion to the STATE within 30 days of the completion of the work described herein.

UTILITY AGREEMENT NO. 1780.1

IN WITNESS WHEREOF, the above parties have executed this Agreement the day and year above written.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

OWNER:  
NORTH MARIN WATER DISTRICT

By: \_\_\_\_\_  
MARK L. WEAVER                      Date  
Deputy District Director, Right of Way

By \_\_\_\_\_                      Date  
CHRIS DEGABRIELE  
General Manager

APPROVAL RECOMMENDED:

By: \_\_\_\_\_  
LINDA EMADZADEH                      Date  
District Office Chief

By \_\_\_\_\_                      Date  
JOHN O. CARLSTON  
District Branch Chief

THIS AGREEMENT WILL NOT BE EXECUTED BY THE STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION UNTIL FUNDS ARE CERTIFIED.

UTILITY AGREEMENT NO. 1780.1

PLANNING AND MANAGEMENT COMPLETES EXCEPT SHADED COLUMNS

UTILITY COMPLETES:

CT DOCUMENT	EVENT TYPE	DEPT	UNIT	PROJECT ID	PHASE	REPORTING		OBJ CODE		BFY	DOLLAR AMOUNT
UA01780100	C401	2660	0869	04-0000-0735 (264099)	9	9	1780X1	054	N	2012	\$10,097,000.00

EA FUNDING VERIFIED:

Sign:>

Print:> ANDREW CHI  
R/W Planning & Management                      Date

REVIEW/REQUEST FUNDING:

Sign:>

Print:> EDGAR VELEZ  
Utility Coordinator                                      Date

THE ESTIMATED COST TO STATE FOR ITS SHARE OF THE ABOVE DESCRIBED WORK IS \$ 10,097,000.00

**CERTIFICATION OF FUNDS**

I hereby certify upon my own personal knowledge that budgeted funds are available for the period and purpose of the expenditure shown here

HQ Accounting Office

Date

ITEM	CHAP	STAT	FY	AMOUNT
2660-301-00042-20-20	21	2012	11/12	\$10,097,000.00

FUND TYPE	PROJECT ID	AMOUNT
Design Funds		\$
Construction Funds		\$
R/W Funds	04-0000-0735	\$10,097,000.00

VENDOR CUSTOMER NO.

VENDOR ADDRESS

VC0000020780

AD001

Distribution:     2 originals to R/W Accounting  
                      1 originals returned to Utility Owner  
                      1 original to Utility File

04-MRN,SON-101 PM  
27.0/27.6,0.0/1.9  
San Antonio Creek  
Project ID: 04-0000-0735-9  
(EA: 264099)

ATTACHMENT A – ROLES AND RESPONSIBILITIES

1. That the actual relocation construction capital cost will be revised at contract award based on the difference between OWNER's PROJECT bid schedule (with BETTERMENTS in Reach B) and alternate bid schedule (with no BETTERMENTS in Reach B). The project will have two sets of plans and specification for bidding purposes. One set of plans and specifications includes BETTERMENTS in Reach B and the other set will be without the BETTERMENTS.
2. The STATE and OWNER agree to comply with Pre-Construction, Construction and Post Construction environmental commitments outlined in the STATES MSN B3 Environmental Impact Report/Environmental Impact Assessment (EIR/EIS), the OWNERS Aqueduct Energy Efficiency Project Environmental Impact Report (EIR), the Mitigation Monitoring and Reporting Program (MMP) and all applicable regulatory permits as summarized in the project Environmental Commitment Record (ECR)
3. If HM-1 or HM-2 is found within PROJECT limits, OWNER will immediately notify STATE. HM-1 is defined as hazardous material (including, but not limited to, hazardous waste) that may require removal and disposal pursuant to federal or state law whether it is disturbed by PROJECT or not. HM-2 is defined as hazardous material (including, but not limited to, hazardous waste) that may require removal and disposal pursuant to federal or state law only if disturbed by PROJECT.
4. STATE, independent of PROJECT, is responsible for any HM-1 found within the existing state highway system (SHS) right of way. STATE will undertake or cause to be undertaken HM MANAGEMENT ACTIVITIES related to HM-1 with minimum impact to PROJECT schedule. HM MANAGEMENT ACTIVITIES is defined as management activities related to either HM-1 or HM-2 including, without limitation, any necessary manifest requirements and disposal facility designations.
5. If HM-1 is found within PROJECT limits and outside the existing SHS right of way, responsibility for HM MANAGEMENT ACTIVITIES will defer to the appropriate party identified in cooperative agreement 4-2210 between the STATE and Transportation Authority of Marin.
6. If HM-2 is found within PROJECT limits, OWNER, as the public agency responsible for the advertisement, award, and administration of the PROJECT construction contract will be responsible for HM MANAGEMENT ACTIVITIES related to HM-2, except that STATE's expense shall be 0% in Reaches A, C and D and 90.3% in Reach B of the total cost for HM MANAGEMENT ACTIVITIES related to HM-2 due to WATERLINE.

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## MEMORANDUM

To: Board of Directors  
From: Chris DeGabriele, General Manager   
Subj: Preparing For Dry Year Conditions  
t:\gm\water shortage 2014\dry year conditions 021814.docx

February 14, 2014

**RECOMMENDED ACTION:** Information Only

**FINANCIAL IMPACT:** None at this time

General

Rainfall in Novato from February 1<sup>st</sup> through February 10<sup>th</sup> totaled 4.05" and regionally was higher both in Southern Marin County and in Sonoma/Mendocino Counties aiding storage reservoir levels. More information is included in this memo.

Marin Agricultural producers and County representatives are holding a forum on Tuesday morning, February 18<sup>th</sup> to address agricultural needs. NMWD and MMWD have been invited to attend and I will represent NMWD at that forum. Hauling water to ranchers for stock watering will likely be discussed and I will have more information for the Board at Tuesday night's meeting.

In Congress both the Senate and House of Representatives have introduced "Emergency Drought Relief" Legislation (see article – Attachment 1). The legislation deals mostly with the State and Federal water projects but the Senate version authorizes USBR Water SMART grant funding on a priority and expedited basis for urban water use that can have immediate water supply benefits, and appropriates funds for agriculture disaster relief.

West Marin Water System

Rainfall at the Kent Lake gage now totals 16.34". For normal year conditions to prevail another 11.66" are needed at Kent Lake by April 1<sup>st</sup>. MMWD's storage increased nearly 9,000AF (to ~51,000AF) with the February rainfall, 28% higher than the 40,000AF April 1<sup>st</sup> threshold which triggers mandatory water use restrictions.

Lagunitas Creek stream flows peaked at ~1100cfs at the Gallagher gage during the storm. MMWD is to maintain 20cfs at the Sam Taylor Park gage pursuant to dry year requirements. Lagunitas Creek stream flows are scheduled to drop to 14cfs on April 1<sup>st</sup>, to 10cfs on May 1<sup>st</sup> and to 6cfs on June 16<sup>th</sup>.

### Novato Water System

Operations to back feed Russian River water into Stafford Lake are underway. Currently ~177AF has been back fed and Stafford Lake now holds 1790AF, with 321AF collected from rainfall runoff.

At Monday's WAC meeting on February 3<sup>rd</sup>, the WAC endorsed the Sonoma Marin Saving Water Partnership resolution which includes seeking 20% voluntary water conservation consistent with Governor Jerry Brown's emergency drought declaration. Sonoma County Water Agency continues to encourage voluntary water conservation. On the Russian River Lake Mendocino now holds 28,293AF (up ~4,000AF, Attachment 2) and Lake Sonoma 166,281AF (up ~7,000AF, Attachment 3). Interestingly, Lake Pillsbury storage doubled with the recent rainfall event to 16,659AF, but is still only at ~20% of capacity

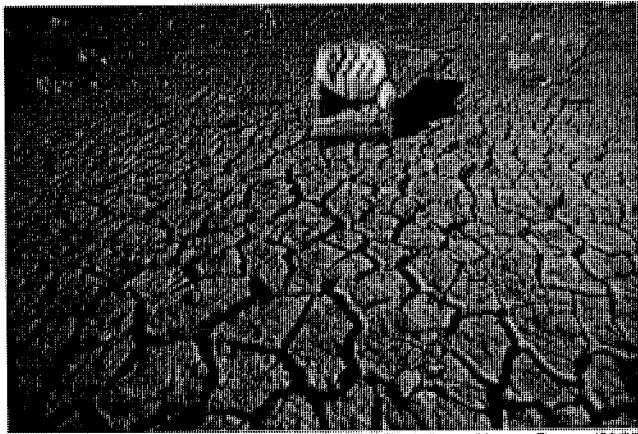
The Board will continue to be appraised at each meeting on the status of dry year conditions as the year progresses.

# Miami Herald

Posted on Tue, Feb. 11, 2014

## Senate Democrats wade into California drought debate, offer legislation

By Michael Doyle  
McClatchy Washington Bureau



NHATV. MEYER | Bay Area News Group/MCT

The low water level reveals two chairs at the Almaden Reservoir in San Jose, Calif., Jan. 22, 2014. The advancing drought condition is most evident in the small reservoirs that store water in Santa Clara County.

California's drought has now fully captivated Congress, with the introduction Tuesday of a Senate water bill that counters one passed by the House of Representatives last week.

The two bills differ significantly, and the legislative end game remains murky. But combined with an upcoming presidential visit to the parched San Joaquin Valley, the introduction of the latest California water measure by its two Democratic senators, Dianne Feinstein and Barbara Boxer, propels the likelihood of Capitol Hill action.

"The House took its best shot," Feinstein said in a telephone interview Tuesday. "I hope they realize (ours) are specific actions

that can work."

Boxer added, in an implicit criticism of the competing House measure, that "the goal of this (Senate) bill is to bring us together to address this crisis, rather than divide us."

The 31-page Senate measure introduced Tuesday offers \$300 million in drought aid through a variety of programs. It tries to wring out more water for users, in part by requiring "flexibility" in how federal officials manage pumping through the Sacramento-San Joaquin River Delta. It allows stricken water districts to delay their federal contract payments and speeds up federal decision-making on water supply projects.

"The bill does not waive the Endangered Species Act, or any other law," Feinstein said. "It essentially adds increased flexibility to the system."

The bill does, though, declare that the drought "fully satisfies" the requirements for initiating emergency procedures under the act and other environmental laws. It also waives the usual requirement that bills spell out how they'll be paid for.

One Democrat who represents a Delta-area district, Rep. John Garamendi, D-Calif., cautioned that it will "take time to understand what the implications are" if the bill passes.

ATTACHMENT 1



The legislation goes beyond California's borders, offering aid to farmers in Oregon's Klamath Basin. This helped secure the immediate co-sponsorship of Oregon's two senators, Democrats Ron Wyden and Jeff Merkley. Other senators are invited in by the bill's potential for providing of emergency aid to farmers and communities throughout the West

In another telling political signal, the Senate bill secured the support of Westlands Water District, the nation's largest water district. In a statement issued within minutes of the Senate bill's introduction, Westlands said it was "encouraged" by the bill that it said would "provide much needed relief" for water agencies. Meanwhile, California's Secretary for Natural Resources, John Laird, said the bill offers "common sense solutions" for the state.

"Drought hits farmers and ranchers first and hardest, so we support a bill that addresses the immediate needs of those facing critical water shortages," added California Farm Bureau Federation President Paul Wenger, a Modesto-area almond and walnut grower, as he offered his organization's support.

The Senate proposal sidesteps a bill approved by the House on a largely party line 229-191 vote last Wednesday. Authored by GOP lawmakers, the House bill is opposed by the Obama administration and California Gov. Jerry Brown.

The 68-page House bill, for instance, authorizes, without federal funding, the construction of dams on the Upper San Joaquin River east of Fresno and in Colusa County, northwest of Sacramento. The House bill repeals an ambitious San Joaquin River restoration program, authorizes raising Shasta Dam and lengthens irrigation contracts to 40 years.

The shorter Senate bill includes none of those provisions.

Instead, the Senate bill, refined over the past several weeks with input from the state's major water agencies, turns various technical dials. It directs that crucial "Cross Channel gates" in the Delta remain open to "the greatest extent possible." Closing the gates protects migrating salmon; opening them can improve Delta water quality and facilitate water deliveries.

Until now, House Republicans have complained about seeming Senate indifference, while Democratic senators have considered the GOP's proposals too extreme. Seen in this light, the Senate bill details may matter less than the fact that both sides of Congress have put forward bargaining positions.

Feinstein will be meeting Wednesday with Rep. David Valadao, D-Calif. to discuss the Senate proposal. Valadao is chief author of the House water bill, which is largely based on an earlier bill written by Rep. Devin Nunes, R-Calif.

"I am encouraged by today's events and hope that the legislative process will continue to move forward," Valadao said.

Feinstein said she has not yet spoken to Senate Majority Leader Harry Reid to figure out the next step or its timing.

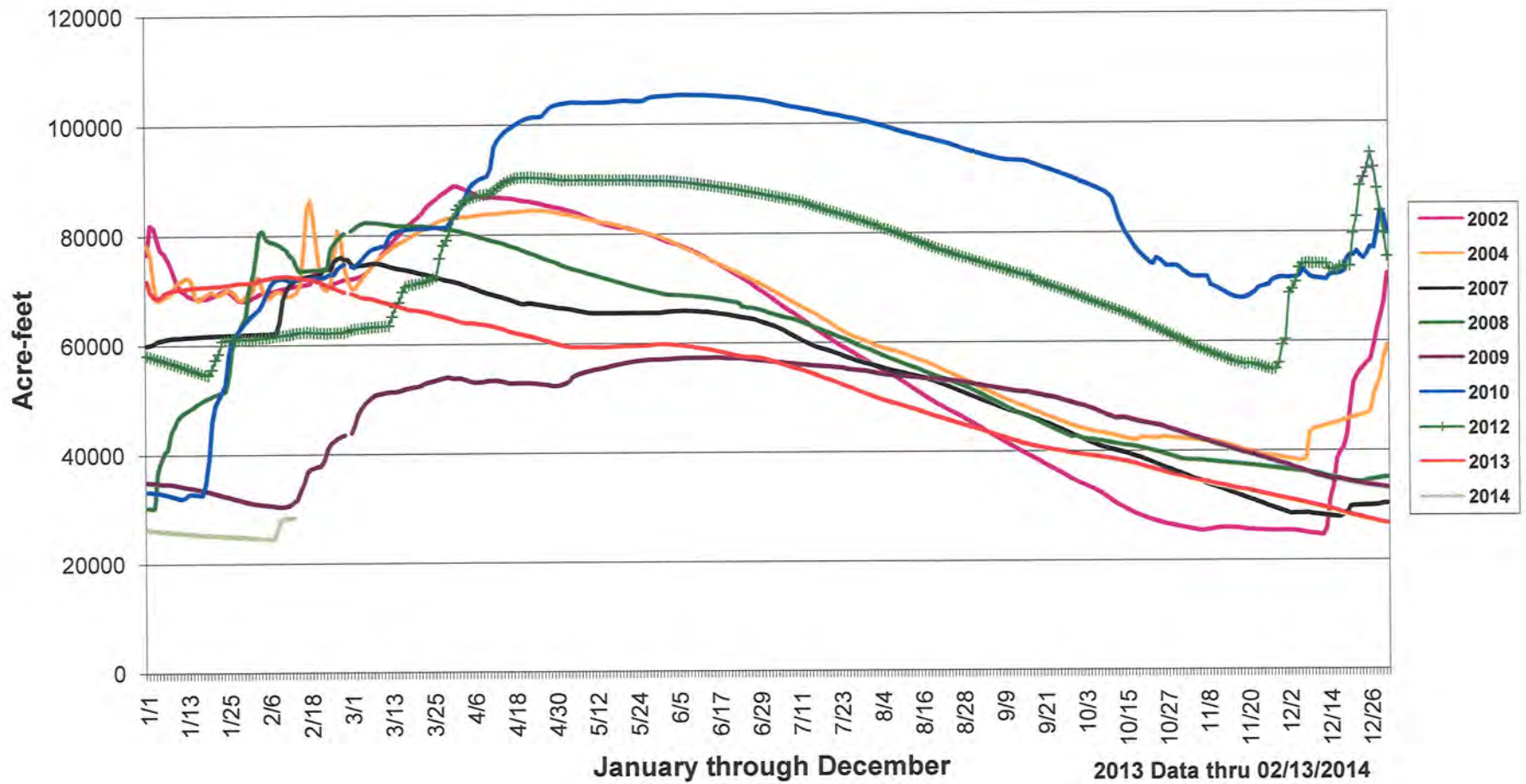
The drought spotlight will further intensify Friday, when President Barack Obama is scheduled to make his first presidential visit to Fresno. Trip details have not yet been made public, but lawmakers will take every opportunity to bend the president's ear.

House Majority Whip Kevin McCarthy of Bakersfield, for instance, revealed in an interview that he briefly filled Obama in on the California drought while escorting the president to the State of the Union speech last month.

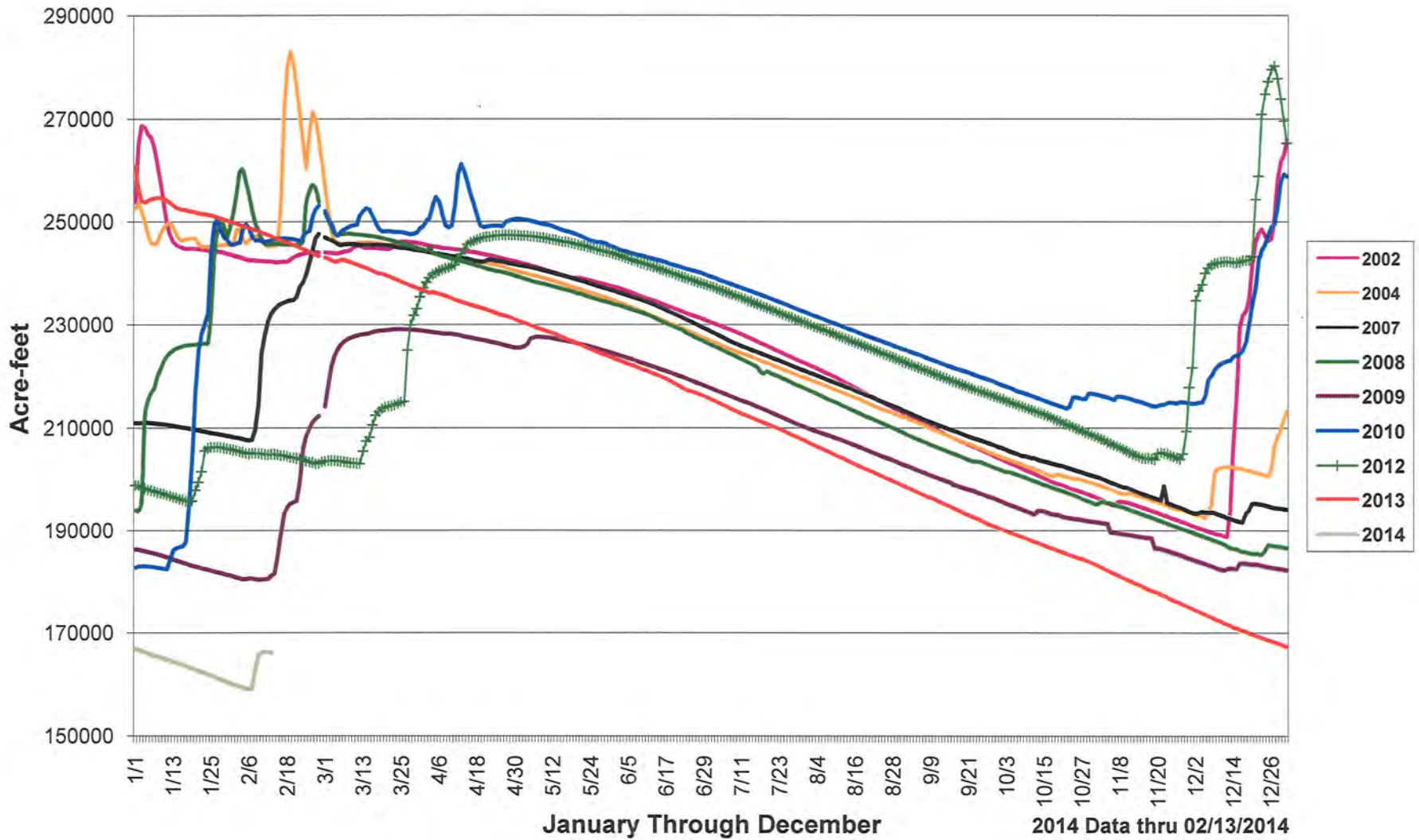
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# Lake Mendocino Storage 2002, 2004, 2007 to 2010 and 2012, 2013, 2014



Lake Sonoma Storage 2002, 2004, 2007 to 2010 and 2012, 2013, 2014



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## MEMORANDUM

To: Board of Directors  
From: David L. Bentley, Auditor-Controller  
Subj: Rate Increase Considerations  
E:\aclwordlfy15 rate increase considerations.docx

February 14, 2014

**RECOMMENDED ACTION: None****FINANCIAL IMPACT: None**

The District needs to begin formulating a rate increase letter to customers to be post-marked no later than April 5, 2014. With the uncertainty surrounding implications of the drought, staff recommends the letter include information about a proposed normal increase, as well as a worst-case scenario that assumes mandatory rationing is required necessitating a drought surcharge. The rate increase hearing would be bifurcated, and if a drought surcharge due to mandatory rationing proves unnecessary, the Board could simply table it.

**June 1, 2014 Rate Increase**

At the January 14 Board Workshop, staff presented the Novato Potable Water System 5-Year Financial Plan "dashboard" to assess the District's progress toward its goal of rebuilding reserves to 90% of annual operating expense. The Board directed staff to remove Facility Reserve Charges (FRC) from forecasted revenue, as the number of new connections is outside of District control, and is not appropriate in calculating water rates. The Board recommended instead that actual FRC revenue be considered retrospectively in setting future water rates.

Accordingly, the proposed Novato Potable rate increase, absent FRC revenue, calculates to 5% pursuant to the financial plan. The revenue stream is comprised of the Service Charge (23%) and the Commodity Charge (77%). Over the past three years, in an effort to stabilize revenue, the District has more than doubled the Service Charge, which now stands at \$30 bimonthly (49¢/day) for 73% of Novato Potable customers. The most frequent complaint received by the Consumer Services staff is the amount of the bimonthly Service Charge. Staff therefore recommends that this year the proposed 5% revenue increase be derived solely from the Commodity Rate, and that the Service Charge remain unchanged. To obtain a 5% revenue increase relying solely upon the Commodity Rate, a 6.5% increase is required ( $5\% / 77\% = 6.5\%$ ).

**Drought Surcharge**

In the event of mandatory rationing, several considerations need to be balanced. The need to manage the revenue loss, the liquidated damages cost (\$0.95/1,000 gallons) for purchased water in excess of the Sonoma County Water Agency Allocation during shortages (pursuant to the restructured agreement), the need to send a price signal of the scarcity of water, and protection of customers who already do an admirable job of conserving water.

At the meeting, staff will share a presentation with the Board showing options in developing a drought surcharge tier-rate that exempts customers already using a minimal amount of water, along with a surcharge on the commodity rate for non-residential customers that are not subject to the tier-rates.


11



## MEMORANDUM

To: Board of Directors

February 14, 2014

From: David L. Bentley, Auditor-Controller Subj: Information – 2014 Urban Area Water Cost Comparison  
t:\acl\word\rate survey\13 rate survey.docx**RECOMMENDED ACTION:** Information Only**FINANCIAL IMPACT:** None

This year North Marin again ranks 10<sup>th</sup> out of the 17 agencies reported on the 2014 survey, unchanged from one year ago. Annual consumption for the median Novato single-family residential household is now calculated at 107,600 gallons, up 500 gallons from the median consumption last year, rendering an annual water cost of \$656. The District's tier rates do not apply to North Marin's typical single-family residential customer, as only 26% of said customers used enough water in 2013 to be subject to a tier rate, thus it is not reflected in the cost comparison calculation.

Twelve of the sixteen comparison agencies increased their water rates over the past twelve months. The average charge for all agencies surveyed, excluding North Marin, increased 5%. The four agencies that did not increase rates over the past 12 months were Marin Municipal Water District, San Jose Water, the City of Sonoma, and the City of Rohnert Park (Rohnert Park's last increase was in 2008). North Marin's charge to the typical single-family residence is now 1% below the median of agencies surveyed, compared to 34% below the median five years ago. North Marin enacted the largest percentage increase among the comparison agencies last year at 11%, followed by East Bay MUD (10%), and Mid-Peninsula, the City of Napa, and the City of Cotati, all at 9%.

Thirteen of the sixteen comparison agencies now have a tier-rate structure. The City of Cotati converted from a uniform commodity rate this past year. The three holdouts are Alameda County Water District, Contra Costa Water District, and the City of Rohnert Park.

North Marin's \$30.00 bimonthly service charge for a 5/8" meter, applicable to 73% of the customer base, is now right at the median of comparison agencies. The bimonthly service charge ranges from a low of \$14 (Petaluma) to a high of \$38 (San Jose Water).

Looking ahead, East Bay MUD, with an annual water cost now 2% below NMWD's, has scheduled a 9.5% rate increase for next fiscal year, and four other agencies have increases already scheduled to implement, ranging from 2 to 4%.

**NORTH MARIN WATER DISTRICT**  
**2014 URBAN AREA WATER COST COMPARISON**  
**FOR TYPICAL SINGLE-FAMILY DWELLING IN THE NOVATO SERVICE AREA**

As of February 14, 2014

Typical Detached Single-Family Residence is Served by a 5/8" x 3/4" Meter  
Annual Consumption is Calculated at 107,600 gallons.

Agency	Note	No. of Water Services	Bimonthly Service Charge	Commodity Rate/1,000 Gallons (1)	Annual Commodity Charge (2)	Total Annual Cost
Mid-Peninsula WD	(3)	8,025	\$33.82	\$7.85	\$845.07	\$1,048
City of San Francisco	(4)	177,000	\$16.80	\$6.92	\$744.38	\$845
Marin Municipal WD	(5)	62,000	\$21.53	\$5.73	\$616.31	\$745
Contra Costa WD	(6)	61,131	\$36.34	\$4.52	\$485.84	\$704
City of Santa Rosa	(7)	52,814	\$22.70	\$5.19	\$558.81	\$695
City of Vallejo	(8)	36,429	\$32.90	\$4.50	\$484.69	\$682
Alameda CWD		82,853	\$31.95	\$4.51	\$485.21	\$677
City of Sonoma	(9)	4,400	\$30.69	\$4.49	\$483.15	\$667
San Jose Water Co	(10)	218,000	\$38.24	\$3.98	\$428.49	\$658
→ <b>NORTH MARIN</b>	(11)	<b>20,733</b>	<b>\$30.00</b>	<b>\$4.42</b>	<b>\$475.59</b>	<b>\$656</b> ←
East Bay MUD	(12)	386,870	\$31.84	\$4.20	\$451.62	\$643
City of Petaluma	(13)	19,551	\$13.98	\$4.52	\$486.33	\$570
City of Napa	(14)	25,000	\$15.45	\$5.19	\$464.58	\$557
City of Rohnert Park		9,542	\$36.64	\$3.00	\$322.80	\$543
Valley of the Moon	(15)	6,901	\$15.28	\$3.92	\$421.67	\$513
Town of Windsor	(16)	9,068	\$18.26	\$3.62	\$389.90	\$499
City of Cotati	(17)	2,575	\$30.21	\$2.90	\$311.81	\$493

**Notes:**

- (1) Average commodity rate for agencies with tier rate structure calculated using NMWD seasonal consumption pattern.
- (2) Based on NMWD median single-family detached residential consumption of 107,600 gallons per year.
- (3) Four-tier rate structure. First 2 Ccf/month @ \$3.85/Ccf, next 8 @ \$5.93/Ccf, next 15 @ \$7.11, 26+ @ \$8.30. All water is purchased from the SF PUC.
- (4) Two-tier rate structure. First 3 Ccf/mo @ \$4.20/Ccf, excess at \$5.50/Ccf.
- (5) Four-tier rate structure. Rate/Ccf = \$3.74, \$7.48, \$14.97 & \$22.45. Summer bimonthly tiers (June-Nov) 0-26 Ccf, 27-59 Ccf, 60-99 & 100+. Winter tiers (Dec-May) 0-21 Ccf, 22-48, 49-80 & 81+.
- (6) Commodity rate includes \$0.0767/Ccf Zone 1 Energy Surcharge (applies to 60% of customers) & Bimonthly Service Charge includes surcharge for Public Fire Protection (\$0.0323/day)
- (7) Four-tier rate structure. The first tier, at \$4.79/1,000 gal, is based upon winter use, which averages 4,400 gal/mo for a single-family residence. The next 8,000 gal/mo above winter use is @ \$5.51/1,000, next 22,000 gal @ \$6.88, additional at \$10.33. Approved fixed rate increase for 5/8" meter to \$11.92/month (effective 3/14/14), \$12.52/month (effective 1/1/15)
- (8) Two-tier rate structure. First 22 Ccf bimonthly @ \$2.88/Ccf; 23+ @ 5.40/Ccf.
- (9) Three-tier rate structure. First 12,000 gallons bimonthly @ \$3.59/1,000; next 36,000 @ \$6.11/1,000, above 37,000 @ \$7.63.
- (10) Two-tier rate structure. First 13 Ccf/month at \$2.6141/Ccf, additional at \$2.8745. Rates & charges include 5% Utility User tax & 1.4% PUC tax. Bimonthly Service Charge includes surcharges for Water Rate Assistance Program (20¢/mo) & SRF loan repayment (6¢/mo). Commodity Rate includes \$0.0723 surcharge for SCVWD purchased water & \$0.0784/Ccf Pump Tax.
- (11) Three-tier rate structure with four elevation zones. 1st Zone charge (0-60') is: 0-615 gallons per day @ \$4.03/1,000 gal, 616 to 1,845 gpd @ \$6.42/1,000, use in excess of 1,845 gpd @ \$11.17. Additional 48¢/1,000 for customers between 60' and 200' elevation; additional \$1.54/1,000 over 1st Zone for customers above 200'. Commodity rate shown is the weighted average charge for all zones in Novato. Excludes West Marin rates and charges.
- (12) Three-tier rate structure with three elevation zones. 1st Zone Charge (0-200') is: 0-172 gpd @ \$2.66/Ccf; 173 to 393 gpd @ \$3.29, use in excess of 393 gpd @ \$4.04/Ccf. Proposed Rate increase FY15 9.5%
- (13) Four-tier rate structure. First 8 Ccf/month @ \$3.12/Ccf, 9-16 Ccf @ \$3.74, 17-24 Ccf @ \$4.64, and 25+ @ \$6.07
- (14) Four-tier rate structure. Bimonthly charge includes 3,000 gal. Next 17,000 @ \$5.16/1,000, next 20,000 @ \$5.34, next 35,000 @ \$6.77, additional @ \$8.98. 45% surcharge for use outside city (approx 10%). 4% increase approved for 10/1/14.
- (15) Three-tier rate structure. 1st 18,000 gallons bimonthly @ \$3.64/1,000, next 22,000 @ \$5.46, additional at \$8.16. Proposed Rate increase 7/1/14 3% commodity and 7% service charge
- (16) Four-tier rate structure. First 4,000 gallons/month @ \$3.07/1,000, next 3,000 gallons @ \$3.38, next 10,000 @ \$4.73, additional @ \$5.62. Rate increase 7/1/14 based on increase in cost of SCWA water.
- (17) Three-tier rate structure. 1st 10,000 gallons bimonthly \$2.74/1,000, next 20,000 gal \$2.90/1,000, over 20,000 gal \$3.65/1,000.

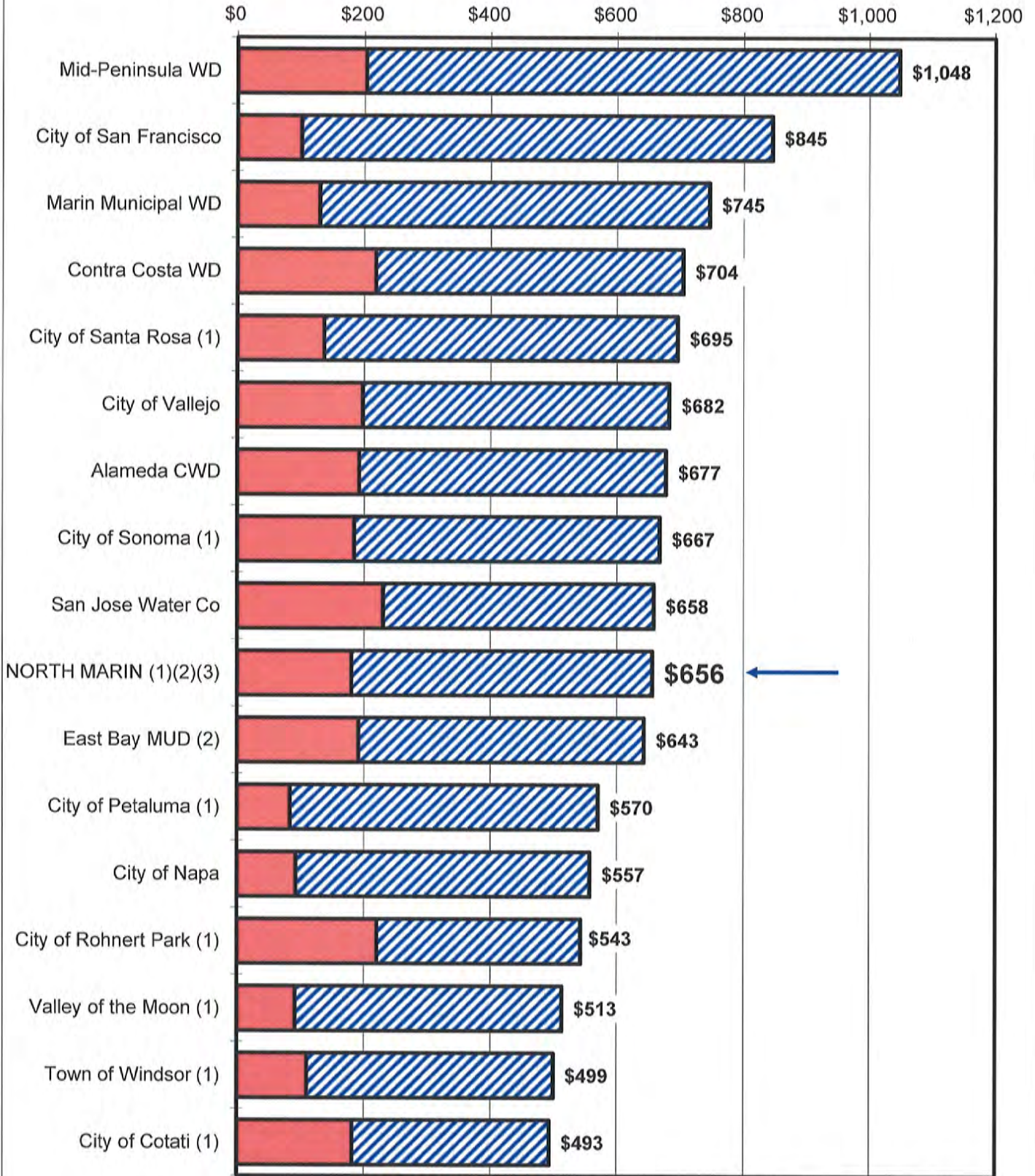
Annual Cost	
Average	\$659
Median	\$663
NMWD	\$656



# 2014 URBAN AREA

## TOTAL ANNUAL WATER COST COMPARISON

Typical Detached Single-Family Home Annual Consumption = 107,600 Gallons



LEGEND

■ Service ■ Commodity

(1) Sonoma County Water Agency Prime Contractor.  
 (2) Based on weighted average commodity charge - all zones.  
 (3) Excludes West Marin rates and charges.

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## MEMORANDUM

To: Board of Directors  
From: Robert Clark, Operations / Maintenance Superintendent  
Subject: Mid Year Operations / Maintenance, 2013/14 Update  
X:\MAINT SUP\2014\BOD\Q2 13-14 O&M update.doc

February 14, 2014



**RECOMMENDED ACTION:** Information

**FINANCIAL IMPACT:** None

### Safety Committee

In reviewing what the District's Safety Committee has been doing for the past year, it is clear that we have improved our monthly communications from the departments to the committee and to the senior staff. How we communicate back from senior staff to the departments and then the safety committee is less documented, but none the less improved based on feedback from staff. Implementation of activities, suggestions and training needs to be improved, as there are a few outstanding items that are yet to be resolved, such as the Safety Binder final review, replacement of the emergency food and Confined Space training updates.

The Committee reviewed nine (9) safety incidents, only one of which was a recordable incident with lost work days; prior to this, there were over 500 days without a lost day incident. The other incidents included minor vehicle incident issues at construction sites (drivers not slowing down), new equipment set up (not seeing trailers while backing up) and minor non-first aids. There were also twelve (12) "near misses" discussed through the year that ranged from objects falling from desks in the office, trip hazards in the office area, bee and yellow jacket hives, working in poison oak, and ticks, all of which were resolved by employees immediately or with the help of a work order.

Staff participated in seven (7) safety training events and other activities that included review of the Safety Binder, Construction tailgate meetings, pre-employment skills testing, City-wide emergency response training, North Bay Safety Managers' meetings and the purchase of new gas monitors.

Looking forward to this fiscal year, the Committee will be following up on those activities not yet completed for 2013, as well as a review of the Safety Incentive Program, and Confined Space Program updates.

### Operations Summary

Stafford Treatment Plant (STP) remained operationally ready into January this year to support the Aqueduct Relocation Project tie-ins and was taken off-line the second week of January. Stafford Lake experienced an uncommon duration of untreatable raw water due to taste and odor (T&O) algae in the fall of 2013. Water quality tests indicated that granular activated carbon did remove an outstanding majority of the compounds; however, just a small amount can affect some of

our customers. Stafford Lake elevation at the end of the period was 178.7 feet, two feet higher than our typical end-of-season low due in part to the T&O missed production and a fear of continued rainfall shortage. The 2013 annual rainfall was 5.3 inches, an all-time low. For calendar year 2013, plant production was 2,227 AF and fiscal year-to-date production total of 1,000 AF. As part of our annual STP maintenance, the filters were dewatered and the filter media washed with an acid solution. The overall Novato production (2,221 AF) during this second quarter was nearly 20% higher for this period one year ago (1,826 AF).

Point Reyes Station flows for this period (64.9 AF) have been tracking much higher from where they were last year (52.4 AF). West Marin distribution system flushing was completed by the end of December.

Recycled water customers continued to use recycled water through the period and the two treatment facilities continued to produce water. The typical irrigation stoppage did not occur as we have seen in years past due to the 31 additional customer sites and sustained drought conditions.


### **Maintenance Summary**

Electrical-Mechanical staff installed a set of two new air compressors for Stafford Treatment Plant. Replacement of the Nunes and Half Moon remote telemetry units was completed. The District mechanic also spent time with E/M staff working on the T/M line repairs along the aqueduct. Building and Grounds staff completed clean-up of Stafford Dam, winterizing buildings and tank sites, coordinated the Recycled Water vegetation project planting efforts with a local Boy Scout Eagle project, and completed clean-up and light repair work at the 15 Gustafson Court house. Fleet Operations put together a specification for a replacement dump truck and received three bids. Maintenance staff utilized contract labor during the period to help complete 227 fire service tests and allow time for staff to complete the cross-connection control testing that had been delayed due to the recycled water start-up efforts.

Phillips & Associates continued to perform operations and maintenance tasks in Oceana Marin while staff reviewed the past performance and ongoing needs of the system. Maximum monthly flow for this period was 460,301 gallons going to the storage and treatment ponds. This was due to the zero rainfall during the period this year. The freeboard was 8.9 feet at the end of December.

13

## MEMORANDUM

To: Board of Directors  
From: Pablo Ramudo, Water Quality Supervisor   
Subject: Second Quarter FY 13/14 – Water Quality Report  
P:\LAB\WQ Supv\WQ Reports\2014\2nd Qtr FY14 WQ Rpt.doc

February 14, 2014

**RECOMMENDED ACTION:** Information

**FINANCIAL IMPACT:** \$0

The water served to the communities of Novato and Point Reyes met federal and state primary water quality standards during the second quarter of fiscal year 2013-2014.

Following is a review of the activities and water quality issues in regards to:

- Source Water
- Treatment Performance
- Distribution System Water Quality
- Novato Recycled Water

## NOVATO SYSTEM

### Source Water: Stafford Lake

Stafford Lake water was used as a source of drinking water intermittently until December 10th, when Stafford Treatment Plant shut down production for the season. Water quality was monitored on a weekly basis for chemical and mineral components as well as microbiological activity.

Algae from the raw water intake were identified and enumerated. The algal cell numbers were extremely high during this quarter. Diversity of algal species was down compared to the last several years. Although there were several species of green algae and diatoms, the dominant types were the cyanobacteria or blue-green algae. These were present in extremely large numbers, causing taste and odor problems in the finished water.

Total organic carbon concentration was down from the record high of September but remained moderately high at a range of 6.1-7.7mg/L.

### Treatment Performance: Stafford Treatment Plant

Total organic carbon (TOC) removal remained above the 35% requirement of the Enhanced Surface Water Treatment Rule. Operators were able to achieve from 68-70% removal throughout the quarter. Finished water TOC concentration was maintained around the district's goal of 2.0 mg/L, ranging between 1.9-2.4 mg/L. The majority of TOC removal was accomplished through optimized coagulation and filtration.



**Treatment Performance: Stafford Treatment Plant** (continued)

Taste and odor problems caused by algal blooms in Stafford Lake were a constant issue throughout the quarter. Despite having fresh granular activated carbon (**GAC**) on hand which removed most of the taste and odor compounds from the water, the concentration of *geosmin* was still above the threshold for many of our customers. This made production of water from Stafford Treatment Plant impossible for much of the quarter.

**Distribution System: Novato**

Of the 252 samples collected for compliance with the Total Coliform Rule- there were no coliform positive samples this quarter. Chlorine residual concentrations throughout our distribution system were good.

The concentrations of total trihalomethanes (**TTHMs**) and haloacetic acids (**HAAs**) were very low during the quarter.

**POINT REYES SYSTEM**

**Source Water: Coast Guard Wells**

Raw water quality was good throughout the quarter. Water quality parameters affected by salt water intrusion rose during the quarter, peaking around November 12<sup>th</sup>. The sodium concentration ranged from 33-51 mg/L, chloride ranged from 42-129 mg/L, hardness ranged from 77-177 mg/L, and bromide ranged from 0.170-0.533 mg/L.

**Treatment Performance: Point Reyes Treatment Plant**

Treatment was optimal throughout the quarter and water quality in general was good. Iron and manganese were not detected in treated water.

**Distribution System: Point Reyes**

Of 22 routine samples collected there were no coliform positive samples during the quarter. Chlorine residual concentrations throughout our distribution system were good.

Concentrations of disinfection byproducts were moderate during the quarter. The sprayer systems at Inverness Park tanks and Paradise Ranch Estates Tank #2 were again credited with reducing the concentration of TTHMs in the areas of high water age, despite the salinity intrusion and available bromide concentrations.

## **NOVATO RECYCLED WATER**

### **Deer Island Recycled Water Facility**

The Deer Island plant did not produce water during the quarter.



**NORTH MARIN  
WATER DISTRICT**

## North Marin Water District- 2nd Quarter FY 2013/2014

### Bacteriological Quality Monitoring

Novato: 252 samples analyzed. No samples positive for coliform bacteria.

Point Reyes: 22 samples analyzed. No samples positive for coliform bacteria

### Chemical Quality Monitoring

Constituent	Units	Maximum Contaminant level	SCWA North Marin Aqueduct	Stafford Treatment Plant	Point Reyes Treatment Plant
Conductivity	umhos/cm	900 *	242	361	397
TDS	mg/L	500 *	147	188	167
Hardness	mg/L	-	100	104	101
Alkalinity	mg/L	-	112	81.1	87.2
Calcium	mg/L	-	19.4	19.1	14.6
Magnesium	mg/L	-	11.6	13.8	16.8
Copper	mg/L	1.0*	ND	ND	ND
Iron	mg/L	0.3*	ND	ND	ND
Manganese	mg/L	0.05 *	ND	ND	ND
Zinc	mg/L	5.0 *	ND	ND	ND
Sodium	mg/L	-	15	31	37
Chloride	mg/L	250 *	6.84	57.3	64.3
Sulfate	mg/L	250 *	10.9	22.7	12.3
Fluoride	mg/L	2.0 (1.4-2.4)	0.110	0.127	0.096
Nitrite as N	mg/L	1.0	ND	ND	ND
Nitrate as N	mg/L	10	0.112	0.076	0.101
pH	pH units	8.5 *	8.52	8.39	7.35
Turbidity	NTU	5	0.11	0.14	0.09
Color	PCU	15	<2.5	<2.5	<2.5
Free Chlorine	mg/L	4.0	0.70	0.88	0.69
Total Chlorine	mg/L	4.0	0.73	1.00	0.74
Temperature	° C	-	13.2	10	13
Odor	TON	3	<1	<1	<1

\*Indicates secondary drinking water standard

ND = Not Detected  
NA = Not Analyzed

**14**

MEMORANDUM

To: Board of Directors  
From: Chris DeGabriele, General Manager *CD*  
Subj: SCWA Updated Water Shortage Allocation Model  
t:\gm\scwa\20143\scwa updated water shortage allocation model.docx

February 14, 2014

**RECOMMENDED ACTION:** Information Only

**FINANCIAL IMPACT:** None at this time

Attachment 1 is the Water Shortage Allocation Methodology Preface Statement from the Water Shortage Allocation Methodology Report prepared for Sonoma County Water Agency by Brown and Caldwell. As stated in the preface statement, the Technical Advisory Committee has been working with the Agency and its consultants since September 2012 on an update of the allocation model. Section 3.5 of the Restructured Agreement requires that the Agency have an adopted Water Shortage Allocation Model available at all times.

At the February 3<sup>rd</sup> WAC meeting, the WAC members received a presentation from the consultant on the model update (Attachment 2), but it is a complicated endeavor and appropriate for the Board to review in a little more in-depth. I will have the model available for review at the meeting on Tuesday.

This model is for a water shortage in the Russian River, not a shortage of Transmission System Capacity. The model is divided into two components: 1) for annual shortage, and 2) for a peak or monthly shortage. It's more likely that the peak or monthly shortage model will be utilized at some point in the future, as it's not likely that Sonoma County Water Agency will know, except in extreme circumstances, what available water supply may be available on an annual basis under shortage conditions.

The TAC consensus is to accept the model as now prepared. The model as currently established includes recognizing local supplies at 75% of the respected estimated annual quantity and daily capacity and limits Marin Municipal Water District daily capacity allocation to 4MGD from May 1<sup>st</sup> through September 30<sup>th</sup>, approximately consistent with their off peak water supply agreement.

It's understood by the parties that available quantities and capacities for local supply will be dependent on circumstances which occur during an actual shortage and the parties have agreed that the model will be adjusted coincident with any actual shortage to reflect the local supply that may be available at that time. The 3-year averages used in developing the model

will be updated with the latest available information prior to implementation. The parties have committed to use the maximum local supply capacity available during monthly shortage conditions to benefit local and regional water supply reliability.

The TAC also acknowledged that the available quantities and capacities of Agency supply in this model update reflect a 3% allowance for transmission system losses, something that was not included in the prior version of the allocation model. So the TAC has recommended that these water loss amounts be verified subsequent to actual deliveries and that the actual transmission system losses be distributed prior to application of any liquidated damages.

Finally, the Restructured Agreement enables the Water Contractors to agree on an alternate allocation methodology provided the Water Advisory Committee unanimously approves such alternate allocation. That option continues to exist should it be needed in the future.

The WAC will again consider accepting the model at its April 7<sup>th</sup> meeting and as Chair of the TAC and General Manager of North Marin Water District, I recommend our WAC representative vote in favor of accepting the Updated Water Shortage Allocation Methodology.

**Allocation Model Preface Statement**

January 29, 2013

Since September 2012, the Technical Advisory Committee (TAC) has been working with Sonoma County Water Agency (Agency) and its' consultant on an update of the Allocation Model (AM) which was originally prepared by Jon Nelson in April 2006 and adopted by the Agency's Board of Directors on April 18, 2006. The Restructured Agreement for Water Supply (RA) requires the Agency to have an adopted water shortage allocation methodology available at all times, consistent with RA Section **3.5 Shortage of Water and Apportionment**, to inform each Customer of the water that would be available to that Customer pursuant to the terms of RA Section 3.5(a). The methodology is reflected in an excel spreadsheet calculation which distributes available supply or available capacity to the Water Contractors, Marin Municipal Water District (MMWD) and Other Agency Customers. To date an Ad Hoc committee of the TAC has reviewed, commented and recommended changes to the proposed AM update for both Annual Allocation and Monthly Allocation Models for water available in the Russian River (RA Section 3.5(a)). Neither the TAC nor the Agency has yet dealt with the methodology or model to consider a temporary impairment of the capacity of the Transmission System pursuant to RA Section 3.5(b).

The TAC recommendations, now incorporated in the AM update, include recognizing local supplies at 75% of the respective estimated annual quantity and daily capacity and is based on a MMWD daily capacity allocation of 4MGD from May 1 through September 30. The parties acknowledge that the available quantities and capacities for local supply will be dependent on circumstances occurring from time to time during an actual shortage condition and agree that the AM will need adjustment coincident with the actual shortage to reflect the local supply at that time as was done in 2009. The parties are committed to use the maximum local supply capacity available during monthly shortage conditions to benefit local and regional water supply reliability.

The parties acknowledge that the available quantities and capacities of Agency Supply in the AM reflect a 3% allowance for Transmission System Losses and recommend that these amounts be verified subsequent to actual deliveries and the actual Transmission System losses be distributed prior to application of liquidated damages pursuant to Section 3.5(e) of the RA.

Furthermore, RA Agreement Section 3.5(f) enables the parties to agree on an alternate allocation methodology, provided the Water Advisory Committee unanimously approves such alternate allocation methodology.



## Draft Water Shortage Allocation Model Update

Presentation to the Water Advisory Committee and Technical Advisory Committee  
February 3, 2014



## Project Purpose

- Allocate Agency's supplies to its customers during "in the river" shortage conditions
- Provide annual and monthly methodology
- Develop a user friendly and transparent model
  - Previous annual shortage model, 2006
  - Use Excel spreadsheet workbook

## Agency's Contractors and Customers

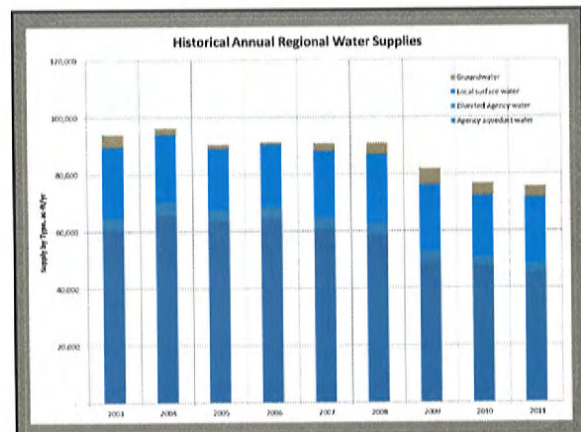
- City of Santa Rosa
- Town of Windsor
- City of Rohnert Park
- City of Cotati
- City of Petaluma
- City of Sonoma
- Valley of the Moon Water District
- North Marin Water District
- Marin Municipal Water District
- Other Agency customers
  - Forestville Water District
  - California-American Water Company
  - Kenwood Village Water Company
  - Lawndale Mutual Water Company
  - Pennings Water Company
  - Russian River diverters

## Background

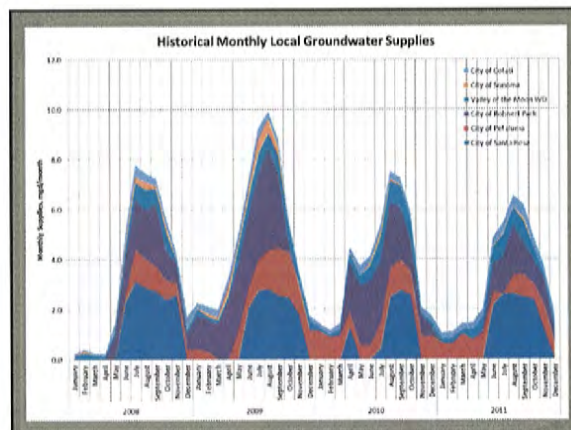
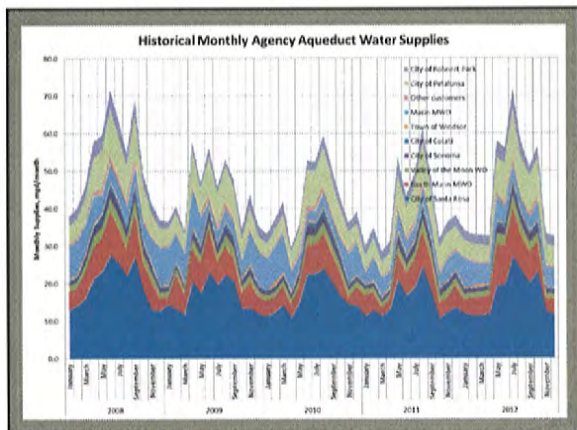
- Resolution No. 10-0085, adopted Feb. 2, 2010
- Update annual shortage allocation methodology
  - Develop monthly shortage allocation methodology
- Restructured Agreement
- Section 3.5 - Shortage of Water and Apportionment

## Approach

- Collaborate with TAC ad-hoc committee
- Input and guidance:
- Demand hardening approach
  - Local supply factor
  - Base period
  - Allocation methodology







### Basic Methodology Approach- Two Key Parameters

**Reasonable requirements**

- Represents normal conditions

**Human health, sanitation, and fire flows**

- Represents severe dry conditions

### Basic Methodology Approach- Allocate Agency Supplies

**When Agency supplies are at or below human health need**

- Allocation based on each contractors' proportion of the total human health need

**When Agency supplies are above human health need**

- Allocation based on each contractors' proportion of the entitlement limits in the RSA
- Maximum allocation capped at reasonable requirements
- MMWD capped at 4 mgd (May to Sept) in monthly model

### Reasonable Requirements

Represents normal conditions

3-yr average total water use for each contractor

- Demand hardening adjustment

Minus local supplies for each contractor's 3-yr average use with 75% factor

- Can be input, factor can be toggled

Equals Agency supply for each contractor

- Greater than actual 3-yr average use of Agency supplies

Includes Agency's transmission system losses (3%) in total

### Human Health, Sanitation, and Fire Flows

Represents severe dry conditions

3-yr average indoor water use for each contractor

- Jan and Feb use
- Demand hardening adjustment
- Fire flow
  - Annual-20 APY (assumes 1 fire/month, 3,000 gpm, 3 hrs)
  - Monthly-0.08 mgd (assumes 1 fire/week, 3,000 gpm, 3 hrs)

Minus local supplies for each contractor

- 3-yr average use with 75% factor
- Can be input, factor can be toggled

Equals Agency supply for each contractor

Includes Agency's transmission system losses (3%) in total

### Demand Hardening per RSA

#### For reasonable requirements

- "Agency may take into account the hardening of demand resulting from the level of conservation..." RSA 3.5c2

#### For human consumption level

- "...resulting decrease in end user ability to reduce water use resulting from such conservation." RSA 3.5c1
- "...no greater than average indoor per capita water use..."

### Demand Hardening Adjustment for Reasonable Requirements

#### Based on regional annual average per capita water use

- 3-yr average gallons per capita per day (gpcd)
- Contractors with a per capita use below average have reasonable requirements escalated to average gpcd
- Contractors with above average gpcd remain unchanged, no reduction factors

### Demand Hardening Adjustment for Human Health & Safety

#### Based on regional average indoor water use

- 3-yr population weighted average indoor gpcd
- Contractors with indoor gpcd below regional average have human health need escalated
- Contractors with indoor gpcd above regional average have human health need reduced

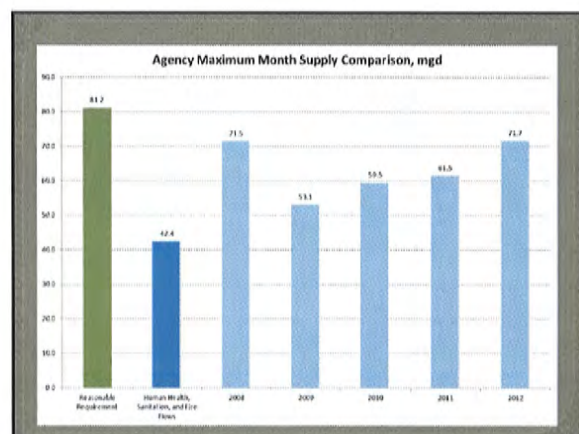
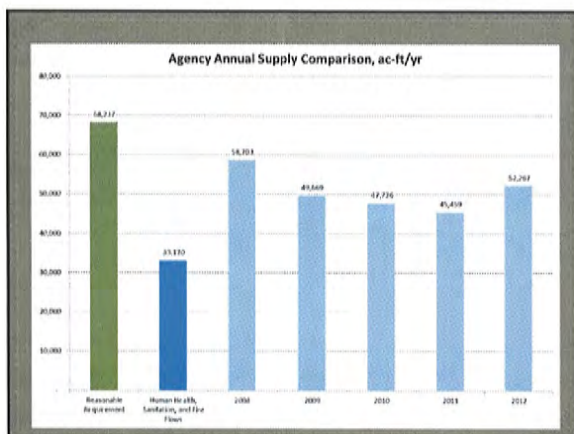
### Local Supplies

#### Incentivize local supplies by not using full amount in shortage model

#### 75% of 3-yr actual local supply used

- For both human health and reasonable requirements

#### Provision to input local supply amounts actually available





### Changes to 2006 Model

Parameter	Current model	2006 model
Reasonable requirements for Agency water	3-yr average of total supplies minus 75% of local supplies	2-yr average Agency supply
Human health, sanitation, and fire flow for Agency water	3-yr average Jan-Feb use minus 75% of local supplies	4-yr average Jan-Feb use minus 90% of local supplies
Fire flow	20 APY/0.08 mgd for each contractor	Not included
Demand hardening adjustment	3-yr average annual and Jan-Feb gpcd	1-yr average annual and Jan-Feb gpcd
Transmission system losses	3% of total	Not included

### Review of Shortage Allocation Approaches

#### Wholesale Agencies

- San Diego County Water Authority
- Metropolitan Water District
- San Francisco Public Utilities Commission

Base Period-3 yrs, all use

Human health-2 use, 55 gpcd

Local supply adjustment, only 1, 70%

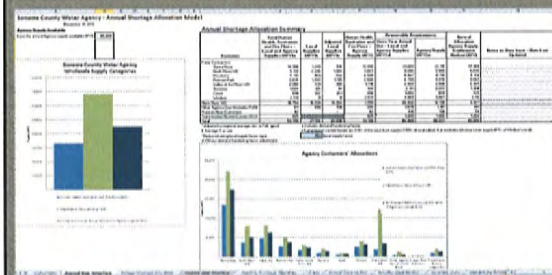
Demand hardening adjustment, only 1

Regional reliability adjustment, all 3

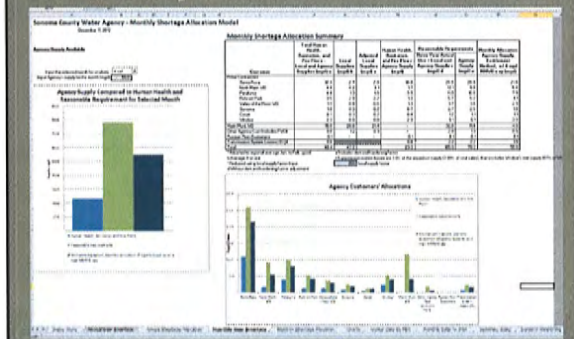
### Model Features

- Instructions and definitions
- Consolidated annual and monthly models
- User interface
  - Input available supply
  - Agency supply bar chart
  - Customers' allocations bar chart
- Annual and monthly shortage allocation sheet
- Individual contractor data sheets
  - Only place where updated water use data is input

### Annual User Interface Sheet




### Monthly User Interface Sheet



### Comments and Questions

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## MEMORANDUM

To: Board of Directors  
From: David L. Bentley, Auditor-Controller   
Subj: Proposed FY15 SCWA Budget  
t:\acl\word\scwa\fy15 budget.docx

February 14, 2014

**RECOMMENDED ACTION: Information****FINANCIAL IMPACT: Estimated \$174,000 Increase in Purchased Water Cost**

The Sonoma County Water Agency's proposed FY15 budget proposes a 3.4% increase in North Marin's rate for water deliveries for next fiscal year. The proposed increase is significantly less than the 5.8% average increase enacted over the past ten years. The 3.4% increase will add \$174,000<sup>1</sup> to North Marin's cost of purchased water in FY15.

The rate is calculated using a formula defined in the Restructured Agreement, essentially dividing the Agency's FY15 projected costs by estimated water deliveries. Due to the drought, the Technical Advisory Committee recommended reducing the projected FY15 water deliveries by 20% from last year, to 46,000 AF. To offset the rate impact of reduced deliveries, the Agency will use \$6.6 million of reserve funds, leaving a projected Water and Transmission System Fund reserve balance of \$7.2 million, and a total water system reserve balance of \$20.1 million.

The Water Advisory Committee is scheduled to approve the budget in April, and the Board of Supervisors is scheduled to consider adoption in April.

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<sup>1</sup> 7,100 AF x \$24.51/AF increase = \$174,000. Assumes STP production of 1,150 AF. Proposed FY15 rate of \$741.78/AF compares to adopted FY14 rate of \$717.27/AF.

## Water Transmission FY 2014-2015 Draft Budget and Rates

The proposed FY 14-15 rates are shown in the table below for two deliveries scenarios, one with deliveries projected at **51,211** acre feet (AF) per the Restructured Agreement for Water Supply (Restructured Agreement) reflecting the 3-year annual average, and another at **46,000** AF commensurate with voluntary reductions in response to the drought.

Charge / Aqueduct	Santa Rosa		Petaluma		Sonoma	
Deliveries in AF	51,211	46,000	51,211	46,000	51,211	46,000
O&M	\$470.86	\$471.40	\$470.86	\$471.40	\$470.86	\$471.40
Water Management Planning	\$4.88	\$0.97	\$4.88	\$0.97	\$4.88	\$0.97
Watershed Planning & Restoration	\$81.15	\$79.01	\$81.15	\$79.01	\$81.15	\$79.01
Recycled Water	\$15.05	\$11.56	\$15.05	\$11.56	\$15.05	\$11.56
Water Conservation	\$35.34	\$39.35	\$35.34	\$39.35	\$35.34	\$39.35
<b>Total O&amp;M</b>	<b>\$607.28</b>	<b>\$602.29</b>	<b>\$607.28</b>	<b>\$602.29</b>	<b>\$607.28</b>	<b>\$602.29</b>
Storage & Common Bond/Loan Charges	\$83.92	\$92.89	\$83.92	\$92.89	\$83.92	\$92.89
Sonoma Aqueduct Bond/Loan Charge					\$56.45	\$62.56
<b>Prime Contractors</b>	<b>\$691.20</b>	<b>\$695.18</b>	<b>\$691.20</b>	<b>\$695.18</b>	<b>\$747.65</b>	<b>\$757.74</b>
Accounts for an Overall Increase of:	3.85%	1.05%	3.85%	1.05%	2.73%	0.85%
<b>Discretionary Charges</b>						
Capital Charges - <i>to build fund balance for future projects</i>	\$29.00	\$19.50	\$29.00	\$19.50	\$29.00	\$19.50
Local Recycled Water Tier 2 Program (LRT2)	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00
<b>Prime Contractors</b>	\$45.00	\$35.50	\$45.00	\$35.50	\$45.00	\$35.50
Accounts for an Overall Increase of:	0.53%	2.55%	0.53%	2.55%	0.38%	2.34%
<b>Total Prime Contractors</b>	<b>\$736.20</b>	<b>\$730.68</b>	<b>\$736.20</b>	<b>\$730.68</b>	<b>\$792.65</b>	<b>\$793.24</b>
Total Overall Increase:	4.38%	3.60%	4.38%	3.60%	3.11%	3.19%

### SUMMARY

- Per the Restructured Agreement, “if because of drought or other water-supply reduction...the Agency may use a different {water delivery} amount with the prior approval of the Water Advisory Committee.”
- Two scenarios are presented above: 1) deliveries of 51,211 AF (3 year annual average per the Restructured Agreement), and 2) reduced deliveries of 46,000 AF (recommended by the TAC). Lower budgeted deliveries are to account for water conservation efforts which would result in less projected revenue. Reducing deliveries to 46,000 AF would ordinarily increase rates by 12-13% but the Water Agency has used \$6.6M in reserves to smooth the rates. If deliveries exceed 46,000AF, the revenue collected will be used for future projects and to smooth FY15-16 rates. The Water Agency recommends the 46,000 AF scenario.
- The overall draft proposed rate increases for deliveries of 46,000 AF are **3.19%** (Sonoma Aqueduct) to **3.60%** (Santa Rosa and Petaluma Aqueducts).
  - The TAC Finance Subcommittee has requested funding of Local Recycled Water Tier 2 Program (LRT2) projects for Marin Municipal Water District (\$724,026) and City of Sonoma (\$89,411). These LRT2 costs result in a rate of \$16 per AF.
  - LRT2 and aqueduct capital charges of \$16 and \$29 per AF, respectively, are included in the overall rate increase.
- Using 46,000 AF deliveries, the Water Transmission System Agency Fund revenues are budgeted to decrease \$1M, and draft expenses are budgeted to decrease by \$2M from FY13-14.
- Debt service savings from refinance approximately \$130,000 per year over the life of the bonds (mature 6/30/2033).



**FY14-15 Capital Projects Summary**

Project	FY14-15 Budget
Petaluma Aq Relocation – Kastania (Caltrans Project)	50,000
Ralphine Tanks Flow Thru Conversion	140,000
24" Oakmont Pipeline Replacement	100,000
Local Hazard Mitigation Program - Program Design (for Future FEMA Funds)	15,000
LHMP - Program Design (for Future FEMA Funds)	15,000
LHMP - Program Design (for Future FEMA Funds)	15,000
Condition Assessment Study	15,000
SBS Electrical Upgrade and Pumping Reliability	220,000
Isolation Valves (FEMA Funds - \$1.9M)	2,800,000
Mirabel Fish Screen/Fish Ladder (Dept of Fish and Wildlife Funds - \$1.18M)	775,000
RR Crossing (FEMA Funds - \$2.9M)	150,000
MW Creek Crossing (FEMA Funds - \$2.8M)	310,000
Collector 6 Liquefaction Mitigation (for Future FEMA Funds)	40,000
Collectors 3 and 5 Liquefaction Mitigation Predesign (for Future FEMA Funds)	200,000
Mirabel-River Road Fiber Optic Cable (Install with RR Crossing Project)	100,000
RDS Pump Replacement	350,000
Caisson 6 Vaults	150,000
Wohler Motor Replacements	350,000
pH Pump Replacement	100,000
Water Agency Westside Facility - offsetting revenue \$365,000	365,000
SCADA Software and Hardware	750,000
SCADA Upgrade	1,250,000

TOTAL 8,260,000

**Sonoma County Water Agency  
FY14-15 Water Transmission Budget and Rates**

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## FY 14-15 Prime Contractor Rates Summary

	<b>CHARGE PER ACRE FOOT:</b>					
	Santa Rosa	Petaluma	Sonoma			
	Aqueduct	Aqueduct	Aqueduct	FY13-14		
<b>O&amp;M Charge [4.2]</b>	471.40	471.40	471.40	SR	Pet	Son
<b>Water Management Planning Sub-charge [4.13]</b>	0.97	0.97	0.97	\$449.06	\$449.06	\$449.06
<b>Watershed Planning/Restoration Sub-charge [4.14]</b>	79.01	79.01	79.01	\$0.93	\$0.93	\$0.93
<b>Recycled Water &amp; Local Supply Sub-charge [4.15]</b>	11.56	11.56	11.56	\$81.20	\$81.20	\$81.20
<b>Water Conservation Sub-charge [4.16]</b>	39.35	39.35	39.35	\$14.23	\$14.23	\$14.23
<b>O&amp;M Charge</b>	<b>602.29</b>	<b>602.29</b>	<b>602.29</b>	\$33.53	\$33.53	\$33.53
<b>Storage and Common Bond &amp; Loan Charges</b>	92.89	92.89	92.89	\$578.95	\$578.95	\$578.95
<b>Sonoma Aqueduct Bond Charge</b>			62.56	\$	87.35	\$ 87.35
						\$ 87.35
<b>PRIME CONTRACTORS</b>	<b>\$695.18</b>	<b>\$695.18</b>	<b>\$757.74</b>	\$	666.30	\$729.75
Increase from FY 13-14	4.33%	4.33%	3.84%			
<b>Capital Charges - to build fund balance for future pro</b>	19.50	19.50	19.50	\$	29.00	\$ 29.00
<b>Local Recycled Water Tier 2 Program</b>	16.00	16.00	16.00	\$	10.00	\$ 10.00
<b>PRIME CONTRACTORS</b>	35.50	35.50	35.50	\$	39.00	\$ 39.00
Increase over base rate from FY 13-14	-0.74%	-0.74%	-0.65%		2.56%	2.31%
<b>TOTAL PRIME CONTRACTORS</b>	<b>\$730.68</b>	<b>\$730.68</b>	<b>\$793.24</b>	\$	705.30	\$768.75
Increase from FY 13-14	3.60%	3.60%	3.19%		4.95%	3.84%

WATER TRANSMISSION SYSTEM  
 FY 14-15 WATER CHARGES PER ACRE-FOOT  
 FOR PRIME CONTRACTORS

	SANTA ROSA AQUEDUCT	% INCR. (DECR.)	PETALUMA AQUEDUCT	% INCR. (DECR.)	SONOMA AQUEDUCT	% INCR. (DECR.)
2014/15	730.68	3.60%	730.68	3.60%	793.24	3.19%
2013/14	705.30		705.30		768.75	
2012/13	672.03		672.03		740.34	
2011/12	634.11		634.11		703.33	
2010/11	603.92		603.92		674.47	
2009/10	564.78		564.78		622.11	
2008/09	471.13		511.13		486.22	
2007/08	441.70		461.70		453.49	
2006/07	431.29		451.29		442.60	
2005/06	412.68		432.68		424.53	
2004/05	402.51		422.51		414.42	
2003/04	393.89		413.89		407.95	
2002/03	387.49		397.90		387.43	
2001/02	383.29		384.02		373.38	
2000/01	330.76		331.61		320.74	

**WATER TRANSMISSION SYSTEM  
FY 14-15 REVENUE SUMMARY CHART**

WATER CUSTOMER	FY 14-15 Budgeted Water Use (Acre- Feet)	FY 13-14 Rate \$/Acre-Foot	FY 14-15 Proposed Rate \$/Acre-Foot	Dollar Change	Percent Change
Santa Rosa Aqueduct	17,580	\$705.30	\$730.68	\$25.38	3.6%
Petaluma Aqueduct	10,619	705.30	730.68	\$25.38	3.6%
Sonoma Aqueduct	4,193	768.75	793.24	\$24.49	3.2%
North Marin Water Dist.	6,401	717.27	741.78	\$24.51	3.4%
Marin Municipal – Third Off Peak	4,300	846.77	865.86	\$19.09	2.3%
Marin Municipal – Supplemental	961	762.97	786.91	\$23.94	3.1%
Forestville Aqueduct	374	676.30	711.18	\$34.88	5.2%
Wholesale/Municipal	957	922.49	951.88	\$29.39	3.2%
Surplus	105	706.74	741.95	\$35.21	5.0%
Windsor	508	846.35	876.81	\$30.46	3.6%
<b>TOTAL</b>	46,000				

**SONOMA COUNTY WATER AGENCY RATES FOR WATER DELIVERIES IN FY 14-15**

**[X] ESTIMATED [ ] OFFICIAL**  
**Approved by Board of Directors on \_\_\_\_\_**

**CHARGE PER ACRE FOOT:**

	<u>Santa Rosa Aqueduct</u>	<u>Petaluma Aqueduct</u>	<u>Sonoma Aqueduct</u>
<b><u>PRIME CONTRACTORS</u></b>			
O&M Charge [4.2]	\$471.40	\$471.40	\$471.40
Water Management Planning Sub-charge [4.13]	\$0.97	\$0.97	\$0.97
Watershed Planning/Restoration Sub-charge [4.14]	\$79.01	\$79.01	\$79.01
Recycled Water & Local Supply Sub-charge [4.15]	\$27.56	27.56	27.56
Water Conservation Sub-charge [4.16]	\$39.35	39.35	39.35
O&M Charge	\$618.29	\$618.29	\$618.29
<b><u>Capital Charges - to build fund balance for future projects</u></b>			
Aqueduct Facilities Capital Charges [4.6 e]	\$19.50	\$19.50	\$19.50
<b><u>Bond &amp; Loan Charges - to pay for existing debt service</u></b>			
Storage Facilities Capital Charge [4.7]	26.31	26.31	26.31
Common Facilities Capital Charge [4.8]	66.58	66.58	66.58
Aqueduct Facilities Capital Charges [4.6 b]			62.56
<i>Total Capital Charges</i>	\$92.89	\$92.89	155.45
<b>TOTAL PRIME CONTRACTORS</b>	<b>\$730.68</b>	<b>\$730.68</b>	<b>\$793.24</b>
Charge without LRT2 and voluntary AQ capital Charge	\$695.18	\$695.18	\$757.74
<b><u>OTHER AGENCY CUSTOMERS/WHOLESALE CHARGES</u></b>			
<b><u>(WATER CO'S &amp; PUBLIC AGENCIES)</u></b>			
O&M Charge	\$618.29	\$618.29	\$618.29
Capital Charges	92.89	92.89	155.45
Aqueduct Facilities Capital Charge	\$240.70	\$240.70	\$178.14
<b>TOTAL OTHER AGENCY CUSTOMERS/WHOLESALE CHARGES (4.12)</b>	<b>\$951.88</b>	<b>\$951.88</b>	<b>\$951.88</b>
<i>(120% OF HIGHEST PRIME)</i>			
<b><u>FORESTVILLE</u></b>			
O&M Charge [4.2] *	\$471.40		
Water Management Planning Sub-charge [4.13]	0.97		
Watershed Planning/Restoration Sub-charge [4.14]	79.01		
Recycled Water & Local Supply Sub-charge [4.15]	27.56		
Water Conservation Sub-charge [4.16]	39.35		
O&M Charge	\$618.29		
<b><u>Bond &amp; Loan Charges - to pay for existing debt service</u></b>			
Aqueduct Facilities Capital Charges [4.6]	0.00		
Storage Facilities Capital Charge [4.7]	26.31		
Common Facilities Capital Charge [4.8]	66.58		
<i>Total Capital Charges</i>	\$92.89		
<b>TOTAL FORESTVILLE</b>	<b>\$711.18</b>		
* Forestville Water District exempt from Santa Rosa Aqueduct sub-charge from FY 06/07 to FY 16/17 [4.12].			
<b><u>NORTH MARIN WATER DISTRICT</u></b>			
O&M Charge		\$618.29	Note: N. Marin does
North Marin Bond & Loan Charge [4.9]		50.87	not pay an Aq
Russian River Conservation Charge [4.18 (a)]		63.90	Capital Charge.
Russian River Projects Charge [4.18 (b)]		8.72	
<b>TOTAL NORTH MARIN WATER DISTRICT</b>		<b>741.78</b>	
<b><u>THIRD OFF-PEAK (MARIN MUNICIPAL)</u></b>			
Highest Prime		\$793.24	
Russian River Conservation Charge		63.90	
Russian River Projects Charge		8.72	
<b>TOTAL THIRD OFF-PEAK</b>		<b>\$865.86</b>	
<b><u>SUPPLEMENTAL (MARIN MUNICIPAL)</u></b>			
O&M Charge		\$618.29	
Capital Charge [4.11 (b)]		96.00	
Russian River Conservation Charge		63.90	
Russian River Projects Charge		8.72	
<b>TOTAL SUPPLEMENTAL</b>		<b>\$786.91</b>	
<b><u>SURPLUS</u></b>			
Non-Municipal / Municipal [4.11 (a)]	\$741.95	\$741.95	\$741.95
<i>(120% of O&amp;M Charge)</i>			
<b><u>Town of Windsor</u></b>			
		\$876.81	
Town of Windsor is charged 120% of the highest charge for any other prime contractor on the Santa Rosa Aqueduct from FY 06/07 to FY 21/22 [4.17 (a)]. Town of Windsor pays all subcharges [4.13, 4.14, 4.15, and 4.16] on all water they divert from the Russian River using their equipment [4.17 (b)].			
	\$876.81		

The applicable section of the Restructured Agreement has been indicated in brackets.

**FY 2014-15 BUDGET**  
**SONOMA COUNTY WATER AGENCY**  
*Operations and Maintenance Rate Computation*

**O & M REVENUE REQUIREMENT**

**FY 14-15 ESTIMATED FISCAL YEAR EXPENDITURES** \$40,432,392

**LESS:**

Depreciation Amortization	5,968,500
Investment Income, Interest on Pooled Cash, Charges for Services	60,000
Power Sales	800,000
PWRPA Pre-paid Expense - FY 08/09 Rate Reduction- <i>One time only</i>	
<b>"Mandatory Prudent Reserve" charge</b>	<b>0</b>
Recycled Water funds (Sub-object 7277) taken from special reserve	<b>0</b>
Transfers Out	11,124,573

REVENUE REQUIREMENT (Net Expenditures)	\$22,479,319
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**O & M ACRE FOOT BASE**

AVERAGE DELIVERIES - PAST <b>36</b> MONTHS	46,000.0
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**LESS:**

Marin Municipal Surplus (Irrigation)	5,261.4
	105.4

TOTAL BASE DELIVERIES	40,633.1
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**O & M RATE COMPUTATION:**

Rate = Revenue Requirement - (Marin Muni Off Peak Deliveries x Highest Prime Rate)  
- (Marin Muni Surplus Deliveries x (O&M Charge + Capital Charge))  
Total Deliveries - Surplus Deliveries - Marin Muni Past 36 Months Deliveries

$$= \frac{22,479,319 - (4,300.00 \times 646.35) - (961.45 \times 567.40)}{46,000.0 - 105.4 - 5,261.4}$$

\* = **\$471.40**

**FY 14-15**  
**Proposed Water Rates**

	<b><u>FY 13-14</u></b>	<b><u>FY 14-15</u></b>	
	<b>(Actual)</b>	<b>(Proposed)</b>	<b>% Change</b>
O&M Charge	449.06	471.40	4.98%
Water Management Planning Sub-Charge	0.93	0.97	4.02%
Watershed Planning/Restoration Sub-Charge	81.20	79.01	-2.69%
Recycled Water Sub-Charge	24.23	27.56	13.76%
Water Conservation Sub-Charge	33.53	39.35	17.34%
<b>Total O&amp;M Charge</b>	<b>588.95</b>	<b>618.29</b>	<b>4.98%</b>

**Santa Rosa Aqueduct Rate**

O&M Charge	588.95	618.29	4.98%
Aqueduct Facilities Capital Charges [4.6 e]	29.00	19.50	-32.8%
Storage Facilities Capital Charge [4.7]	21.04	26.31	25.06%
Common Facilities Capital Charge [4.8]	66.31	66.58	0.40%
<b>TOTAL</b>	<b>705.30</b>	<b>730.68</b>	<b>3.60%</b>

**Petaluma Aqueduct Rate**

O&M Charge	588.95	618.29	4.98%
Aqueduct Facilities Capital Charges [4.6 e]	29.00	19.50	-32.8%
Storage Facilities Capital Charge [4.7]	21.04	26.31	25.06%
Common Facilities Capital Charge [4.8]	66.31	66.58	0.40%
<b>TOTAL</b>	<b>705.30</b>	<b>730.68</b>	<b>3.60%</b>

**Sonoma Aqueduct Rate**

O&M Charge	588.95	618.29	4.98%
Aqueduct Facilities Capital Charges [4.6 e]	29.00	19.50	-32.8%
Storage Facilities Capital Charge [4.7]	21.04	26.31	25.06%
Common Facilities Capital Charge [4.8]	66.31	66.58	0.40%
Aqueduct Facilities Capital Charges [4.6 b]	63.45	62.56	-1.40%
<b>TOTAL</b>	<b>768.75</b>	<b>793.24</b>	<b>3.19%</b>

**SONOMA COUNTY WATER AGENCY**  
**RUSSIAN RIVER CONSERVATION CHARGE COMPUTATION**

**FISCAL YEAR 2014-15**

**PROPERTY ASSESSMENT VALUES AS OF FY 13-14:**

<u>TAX CODE</u>	<u>ENTITY</u>	<u>SECURED</u>	<u>UNSECURED</u>	<u>TOTAL VALUE</u>
14000	Forestville Co Water District	311,869,214	2,706,578	\$314,575,792
42800	City of Cotati	807,650,224	17,661,794	825,312,018
43500	City of Petaluma	7,226,144,010	341,622,830	7,567,766,840
43800	City of Rohnert Park	3,676,459,568	114,420,160	3,790,879,728
44500	City of Santa Rosa	17,326,665,145	646,818,391	17,973,483,536
45000	City of Sonoma	1,981,914,489	60,417,469	2,042,331,958
	Valley of the Moon Water District	2,487,518,372	19,400,544	2,506,918,916
	<i>TOTAL</i>	\$33,818,221,022	\$1,203,047,766	\$35,021,268,788

**Notes:**

- 1 Total value of secured and unsecured property in service areas of Prime Water Contractors of Sonoma County (see above) \$35,021,268,788
- 2 2011-12 Sonoma County tax rate per \$100 of full cash value assessed for payment of Warm Springs Dam Project Obligations 0.007
- 3 Total tax levied on citizens residing in service areas of Prime Water Contractors of Sonoma County, i.e., (Line 1/100) x Line 2 \$2,451,489
- 4 Total acre feet of water delivered to Prime Water Contractors of Sonoma County (excluding North Marin and Town of Windsor) plus deliveries to Forestville during the prior 12 month period ending March 31. 38,367.05
- 5 Total Russian River Conservation Charge per Acre Foot (Line 3 / Line 4) \$63.90

**Russian River Projects Charge**  
Historical calculations

**RR Conservation Charge**  
Historical calculations

For FY	Calculated	Actual Charge
05-06	24.23 \$	20.00 \$ 45.06
06-07	17.02 \$	17.02 \$ 48.33
07-08	21.4 \$	20.00 \$ 52.70
08-09	25.08 \$	20.00 \$ 58.44
09-10	24.68 \$	20.00 \$ 57.70
10-11	24.4 \$	20.00 \$ 74.62
11-12	23.44 \$	20.00 \$ 72.27
12-13	20.38 \$	20.00 \$ 72.08
13-14	14.72 \$	14.72 \$63.30
14-15	8.72 \$	8.72 \$63.90

FY0506 First FY with 10 full years of data.

**SCHEDULE OF WATER DELIVERIES BY AQUEDUCT  
PAST 36 MONTHS / 12 MONTHS AVERAGE**

		DELIVERING AQUEDUCT				Monthly Total
		Santa Rosa	Petaluma	Forestville	Sonoma	
36	Jan-11	1,123.2	1,490.4	19.9	219.3	2,852.8
35	Feb-11	1,152.7	1,618.4	18.0	221.2	3,010.3
34	Mar-11	1,122.7	1,348.8	19.4	206.3	2,697.1
33	Apr-11	1,275.7	1,335.4	21.9	245.5	2,878.5
32	May-11	2,126.3	2,484.2	36.9	472.2	5,119.6
31	Jun-11	1,629.7	1,975.0	33.0	357.4	3,995.1
30	Jul-11	1,895.2	2,308.6	40.2	439.9	4,683.8
29	Aug-11	2,452.9	2,774.4	56.1	587.8	5,871.2
28	Sep-11	1,711.6	2,207.3	43.0	454.5	4,416.4
27	Oct-11	1,072.5	1,620.2	30.1	328.7	3,051.5
26	Nov-11	1,180.8	1,742.2	29.2	384.4	3,336.6
25	Dec-11	1,335.2	1,933.1	27.3	342.5	3,638.1
24	Jan-12	1,169.7	1,808.7	19.4	264.7	3,262.3
23	Feb-12	1,138.5	1,744.8	20.9	242.2	3,146.4
22	Mar-12	1,175.7	1,682.8	19.5	246.6	3,124.7
21	Apr-12	1,161.4	1,663.4	21.1	265.5	3,111.4
20	May-12	1,921.6	3,012.8	43.1	561.9	5,539.3
19	Jun-12	1,941.7	2,879.0	43.5	480.8	5,345.0
18	Jul-12	2,688.8	3,451.2	57.7	644.2	6,841.9
17	Aug-12	2,318.3	2,641.9	48.6	511.9	5,520.8
16	Sep-12	1,975.2	2,366.6	50.2	477.7	4,869.8
15	Oct-12	2,282.4	2,544.1	48.3	503.7	5,378.5
14	Nov-12	1,221.0	1,655.1	23.2	266.6	3,165.8
13	Dec-12	1,129.9	1,718.5	19.7	231.2	3,099.2
12	Jan-13	1,384.5	1,950.0	24.6	287.1	3,646.1
11	Feb-13	1,188.2	1,574.1	23.4	240.4	3,026.1
10	Mar-13	1,317.5	1,724.9	23.2	312.8	3,378.4
9	Apr-13	1,839.4	2,472.8	34.0	436.0	4,782.2
8	May-13	2,150.0	2,558.5	44.4	484.1	5,237.0
7	Jun-13	2,115.7	2,664.0	42.7	475.6	5,297.9
6	Jul-13	2,768.2	3,215.1	52.5	622.8	6,658.6
5	Aug-13	2,023.7	2,499.7	44.9	481.9	5,050.2
4	Sep-13	1,992.1	2,560.3	46.5	460.5	5,059.4
3	Oct-13	2,060.9	2,765.2	47.2	524.0	5,397.4
2	Nov-13	1,398.0	2,108.6	29.4	354.8	3,890.8
1	Dec-13	1,426.6	2,492.7	29.2	304.5	4,253.0
<b>Total Deliveries</b>		59,867.3	78,593.0	1,232.1	13,940.9	153,633.3
<b>3-Year Annual Average</b>		18,193.9	23,238.7	374.3	4,193.1	46,000.0
<b>Past 12 Months</b>		21,368.0	27,811.8	432.3	4,911.2	55,677.2
Total Deliveries		59,867.3	78,593.0	1,232.1	13,940.9	153,633.3
Less: North Marin			21,877.0			21,877.0
Marin Municipal			17,739.3			17,739.3
<b>Sonoma Co. Deliveries</b>		59,867.3	38,976.8	1,232.1	13,940.9	114,017.1
<b>3-Year Annual Average</b>		19,955.8	12,992.3	410.7	4,647.0	38,005.7



# SONOMA COUNTY WATER AGENCY

## SCHEDULE OF ACTUAL PRIOR 12 MONTHS WATER DELIVERIES IN ACRE FEET (BY CUSTOMER TYPE)

JANUARY 13 THROUGH DECEMBER 13 (Applicable Years as Indicated)

Aqueduct No.	JAN 13	FEB 13	MAR 13	APR 13	MAY 13	JUN 13	JUL 13	AUG 13	SEP 13	OCT 13	NOV 13	DEC 13	TOTAL
<b><u>PRIMES</u></b>													
1 City of Santa Rosa	1,346.2	1,152.6	1,266.6	1,766.8	2,050.9	2,012.2	2,652.7	1,924.3	1,891.1	1,978.1	1,290.1	1,360.8	20,692.5
2 City of Petaluma	585.0	510.1	565.3	824.8	899.3	922.0	1,183.5	910.8	893.6	908.3	631.6	658.4	9,492.8
2 North Marin Water Dist.	463.2	274.1	396.2	630.3	655.7	725.8	990.9	742.4	848.7	789.0	631.4	558.0	7,705.5
2 City of Rohnert Park	340.5	276.1	248.4	315.3	313.1	316.2	402.8	303.0	277.8	391.1	272.9	320.1	3,777.2
2 City of Cotati	32.0	25.8	32.0	47.8	59.2	56.2	66.5	59.2	63.2	69.1	45.8	54.7	611.4
1 Town of Windsor	25.8	31.9	37.8	48.1	48.8	52.0	52.0	51.8	49.4	34.1	75.0	32.0	538.8
4 City of Sonoma	116.4	96.9	140.3	184.6	205.9	205.8	263.8	201.6	201.9	245.7	150.4	73.7	2,087.0
4 Valley of the Moon Dist.	161.6	140.1	167.5	243.7	252.1	252.3	332.8	263.0	242.7	264.5	196.3	222.8	2,739.6
<b>TOTAL PRIMES</b>	<b>3,070.8</b>	<b>2,507.6</b>	<b>2,854.1</b>	<b>4,061.3</b>	<b>4,485.0</b>	<b>4,542.5</b>	<b>5,945.0</b>	<b>4,456.1</b>	<b>4,468.4</b>	<b>4,679.9</b>	<b>3,293.6</b>	<b>3,280.4</b>	<b>47,644.7</b>
<b><u>OTHER AGENCY CUSTOMERS</u></b>													
1 Larkfield Water Co	12.0	3.2	11.6	20.6	37.8	45.2	56.8	42.0	44.6	45.0	29.2	32.8	380.7
2 Penngrove Water Co	11.4	9.4	11.1	16.4	18.8	19.8	25.0	19.9	19.1	20.6	13.5	14.8	199.8
4 Lawndale Mutual	3.3	2.2	3.9	5.5	7.5	8.0	10.7	8.0	8.2	8.6	5.8	6.8	78.5
4 Kenwood Village Water Co	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.3	0.5	0.3	0.4	4.5
3 Forestville Co Water Dist.	24.6	23.4	23.2	34.0	44.4	42.7	52.5	44.9	46.5	47.2	29.4	29.2	441.8
1 Other Gov-Santa Rosa Aq	0.4	0.3	0.3	0.6	0.5	0.5	0.8	0.4	0.5	0.5	0.3	0.3	5.3
2 Other Gov-Petaluma Aq	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Other Gov-Sonoma Aq	0.6	0.4	0.4	0.7	1.1	1.5	1.9	1.3	1.0	1.3	0.9	0.6	11.7
<b>TOTAL OTHER AGY. CUST</b>	<b>52.5</b>	<b>39.2</b>	<b>50.9</b>	<b>78.3</b>	<b>110.4</b>	<b>118.1</b>	<b>148.0</b>	<b>116.9</b>	<b>120.2</b>	<b>123.7</b>	<b>79.3</b>	<b>84.9</b>	<b>1,122.3</b>
<b><u>OFF-PEAK CUSTOMERS</u></b>													
2 Marin Municipal	517.9	478.5	471.9	638.4	612.5	624.0	546.4	464.5	457.9	587.2	513.4	886.8	6,799.3
<b><u>SURPLUS CUSTOMERS</u></b>													
1 Irrigation-Santa Rosa Aq	0.1	0.2	1.1	3.3	12.0	5.7	5.9	5.2	6.5	3.3	3.4	0.7	47.5
2 Irrigation-Petaluma Aq	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Irrigation-Sonoma Aq	4.9	0.5	0.3	1.1	17.2	7.6	13.2	7.6	6.3	3.4	1.2	0.2	63.4
<b>TOTAL SURPLUS CUST.</b>	<b>5.0</b>	<b>0.8</b>	<b>1.5</b>	<b>4.3</b>	<b>29.2</b>	<b>13.3</b>	<b>19.1</b>	<b>12.8</b>	<b>12.8</b>	<b>6.6</b>	<b>4.5</b>	<b>0.9</b>	<b>110.9</b>
<b>TOTAL DELIVERIES</b>	<b>3,646.1</b>	<b>3,026.1</b>	<b>3,378.4</b>	<b>4,782.2</b>	<b>5,237.0</b>	<b>5,297.9</b>	<b>6,658.6</b>	<b>5,050.2</b>	<b>5,059.4</b>	<b>5,397.4</b>	<b>3,890.8</b>	<b>4,253.0</b>	<b>55,677.2</b>

**FY 2014-15 BUDGET**  
**Water Transmission System Agency Fund**  
**ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges**  
**Sub-Object 4161**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - O&amp;M</u></b>			
1 PRIMES without Subcharges	39,675.8	471.40	18,703,223
2 OTHER AGENCY CUSTOMERS	957.3	804.99	770,611
3 MARIN MUNICIPAL (OFF-PEAK)	4,300.0	646.35	2,779,303
4 MARIN MUNICIPAL (SUPPLEMENTAL)	961.4	567.40	545,525
5 SURPLUS CUSTOMERS	105.4	595.06	62,734
<b>TOTAL WATER SALES - O&amp;M</b>	46,000.0	N/A	\$22,861,396

**Sub-Object 4175, 4176, 4177, and 4178**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - Sub-charges</u></b>			
1a Water Management Planning Sub-charge [4.13]	46,000.0	0.97	44,500
1b Watershed Planning/Restoration Sub-charge [4.14]	46,000.0	79.01	3,634,500
1c Recycled Water & Local Supply Sub-charge [4.15]	46,000.0	27.56	1,267,819
1d Water Conservation Sub-charge [4.16]	46,000.0	39.35	1,810,000
<b>TOTAL WATER SALES - Subcharges</b>	46,000.0	N/A	\$6,756,819

**FY 2014-15 BUDGET**  
**Water Transmission System Agency Fund**  
**SANTA ROSA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges**  
**Sub-Object 4161**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - O&amp;M</u></b>			
1 SANTA ROSA AQUEDUCT	18,193.9	471.40	8,576,630

**Sub-Object 4175, 4176, 4177, and 4178**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - Sub-charges</u></b>			
1a Water Management Planning Sub-charge [4.13]	18,193.9	0.97	17,601
1b Watershed Planning/Restoration Sub-charge [4.14]	18,193.9	79.01	1,437,518
1c Recycled Water & Local Supply Sub-charge [4.15]	18,193.9	27.56	501,448
1d Water Conservation Sub-charge [4.16]	18,193.9	39.35	715,891
<b>TOTAL WATER SALES - Subcharges</b>	18,193.9	N/A	\$2,672,458

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>CAPITAL CHARGES</u></b>			
Aqueduct Facilities Capital Charges [4.6 e]	18,193.9	19.50	354,782
<b><u>BOND AND LOAN CAPITAL CHARGES</u></b>			
Storage Facilities Capital Charge [4.7]	18,193.9	26.31	478,708
Common Facilities Capital Charge [4.8]	18,193.9	66.58	1,211,317
Aqueduct Facilities Capital Charges [4.6 b]	18,193.9	0.00	0
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	18,193.9	N/A	\$2,044,807

**TOTAL ESTIMATED REVENUE**

**\$13,293,895**

**FY 2014-15 BUDGET**

**Water Transmission System Agency Fund**

**PETALUMA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges**

**Sub-Object 4161**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - O&amp;M</u></b>			
1 PETALUMA AQUEDUCT	23,238.7	471.40	10,954,745

**Sub-Object 4175, 4176, 4177, and 4178**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - Sub-charges</u></b>			
1a Water Management Planning Sub-charge [4.13]	23,238.7	0.97	22,481
1b Watershed Planning/Restoration Sub-charge [4.14]	23,238.7	79.01	1,836,110
1c Recycled Water & Local Supply Sub-charge [4.15]	23,238.7	27.56	640,489
1d Water Conservation Sub-charge [4.16]	23,238.7	39.35	914,393
<b>TOTAL WATER SALES - Subcharges</b>	23,238.7	N/A	\$3,413,473

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>CAPITAL CHARGES</u></b>			
Aqueduct Facilities Capital Charges [4.6 e]	23,238.7	19.50	453,155
<b><u>BOND AND LOAN CAPITAL CHARGES</u></b>			
Storage Facilities Capital Charge [4.7]	23,238.7	26.31	611,444
Common Facilities Capital Charge [4.8]	23,238.7	66.58	1,547,189
Aqueduct Facilities Capital Charges [4.6 b]	23,238.7	0.00	0
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	23,238.7	N/A	\$2,611,788

**TOTAL ESTIMATED REVENUE**

**\$16,980,006**

**FY 2014-15 BUDGET**  
**Water Transmission System Agency Fund**  
**SONOMA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges**  
**Sub-Object 4161**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b>WATER SALES - O&amp;M</b>			
1 SONOMA AQUEDUCT	4,193.1	471.40	1,976,621

**Sub-Object 4175, 4176, 4177, and 4178**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b>WATER SALES - Sub-charges</b>			
1a Water Management Planning Sub-charge [4.13]	4,193.1	0.97	4,056
1b Watershed Planning/Restoration Sub-charge [4.14]	4,193.1	79.01	331,299
1c Recycled Water & Local Supply Sub-charge [4.15]	4,193.1	27.56	115,567
1d Water Conservation Sub-charge [4.16]	4,193.1	39.35	164,989
<b>TOTAL WATER SALES - Subcharges</b>	4,193.1	N/A	\$615,911

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b>CAPITAL CHARGES</b>			
Aqueduct Facilities Capital Charges [4.6 e]	4,193.1	19.50	81,765
<b>BOND AND LOAN CAPITAL CHARGES</b>			
Storage Facilities Capital Charge [4.7]	4,193.1	26.31	110,326
Common Facilities Capital Charge [4.8]	4,193.1	66.58	279,167
Aqueduct Facilities Capital Charges [4.6 b]	4,193.1	62.56	262,316
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	4,193.1	N/A	\$733,574

**TOTAL ESTIMATED REVENUE**

**\$3,326,106**

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Water Transmission System Agency Fund

Section/Index No:

675108

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>8,887,458</b>	<b>12,438,164</b>		<b>6,684,780</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	137,000	149,882	65,000	60,000	(5,000)	(7.69%)
1801 Rent - Real Estate	0	450	0	0	0	N/A
SUBTOTAL	137,000	150,332	65,000	60,000	(5,000)	(7.69%)
<b><u>INTERGOVERNMENTAL REVENUES</u></b>						
2500 ST-Other	28,737	0	0	0	0	N/A
2780 Fed-Other	3,652	2,534	0	0	0	N/A
SUBTOTAL	32,388	2,534	0	0	0	N/A
<b><u>CHARGES FOR SERVICES</u></b>						
3145 Plans & Spec		20				
3666 Meter Service / Install	28,421	29,000	20,000	0	(20,000)	(100.00%)
3980 Revenue Applicable to PY	5,787	5,843	0	0	0	N/A
SUBTOTAL	34,208	34,863	20,000	0	(20,000)	(100.00%)
<b><u>MISCELLANEOUS REVENUES</u></b>						
4039 Sale - Power	835,759	800,000	800,000	800,000	0	0.00%
4040 Miscellaneous Revenues	14,928	15,000	0	0	0	N/A
4102 Donations/ Reimb.	(644)	0	2,000	0	(2,000)	(100.00%)
4109 Outdated Warrants	24,546	0	0	0	0	N/A
4116 Insurance Reimbursement	5,500					
4161 Water Sales - O&M	24,333,572	25,002,394	23,190,099	22,861,396	(328,703)	(1.42%)
4162 Comm. Rev. Bd. Charge	3,127,757	2,765,938	2,379,338	2,279,125	(100,213)	(4.21%)
4163 Storage Rev. Bd. Charge	958,394	877,558	754,889	900,703	145,814	19.32%
4164 Sonoma Aq. Rev. Charge	327,258	306,243	255,665	262,316	6,651	2.60%
4166 SR Aq. Capital Charge	151,920	422,548	530,275	433,516	(96,759)	(18.25%)
4167 Petaluma Aq. Cap. Chg.	127,067	451,541	789,750	453,155	(336,595)	(42.62%)
4168 Sonoma Aq. Cap. Charge	89,182	142,425	257,736	81,765	(175,971)	(68.28%)
4169 NM Revenue Bd. Charge	265,610	387,589	341,611	325,592	(16,019)	(4.69%)
4175 Water Mgmt Planning Sub-charge	61,500	51,780	45,000	44,500	(500)	(1.11%)
4176 Watershed Planning/Rest Sub-charge	4,573,599	4,520,942	3,947,000	3,634,500	(312,500)	(7.92%)
4177 Recycled Water & Local Supply Sub-charge	902,194	1,348,935	1,177,685	1,267,819	90,134	7.65%
4178 Water Conservation Sub-charge	1,853,476	1,867,022	1,630,000	1,810,000	180,000	11.04%
4304 Federal Grants	32,120	0	0	0	0	N/A
SUBTOTAL	37,683,737	38,959,915	36,101,048	35,154,388	(946,660)	(2.62%)
<b>TOTAL REVENUES</b>	<b>37,887,333</b>	<b>39,147,644</b>	<b>36,186,048</b>	<b>35,214,388</b>	<b>(971,660)</b>	<b>(2.69%)</b>

## Section Title:

Water Transmission System Agency Fund

## Section/Index No:

675108

Subsubject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
6020 Clothing / Personal	15,427	15,000	0	10,000	10,000	N/A
6040 Communications	61,798	70,000	75,000	70,000	(5,000)	(6.67%)
6060 Food	946	819	0	0	0	N/A
6140 Maintenance - Equipment	709,493	800,000	1,125,000	1,000,000	(125,000)	(11.11%)
6180 Maintenance - Buildings	238,403	0	0	0	0	N/A
6190 Landscaping Service	4,951	5,000	0	5,000	5,000	N/A
6262 Laboratory Supplies	22,503	24,000	25,000	35,000	10,000	40.00%
6280 Memberships	39,485	40,000	75,000	40,000	(35,000)	(46.67%)
6400 Office Expense	4,480	5,000	5,000	5,000	0	0.00%
6410 Postage	3,521	4,000	5,000	4,000	(1,000)	(20.00%)
6415 Books/Periodicals	2,069	1,500	2,000	0	(2,000)	(100.00%)
6430 Printing	948	2,500	2,000	3,000	1,000	50.00%
6461 Supplies / Expenses	26,831	30,000	50,000	30,000	(20,000)	(40.00%)
6510 Microfilm		54				
6512 Testing / Analysis	113,949	130,000	135,000	135,000	0	0.00%
6516 Data Processing Services	11,906	10,000	10,000	12,000	2,000	20.00%
6523 District Operations	10,729,450	10,500,000	9,800,000	11,500,000	1,700,000	17.35%
6540 Contract Services	174,555	200,000	215,000	890,000	675,000	313.95%
6553 Contract-Security Services	0	0	25,000	0	(25,000)	(100.00%)
6570 Consultant Services	343,219	345,000	985,000	986,000	1,000	0.10%
6589 Permits	35,608	40,000	10,000	40,000	30,000	300.00%
6610 Legal Services	29,487	30,000	50,000	30,000	(20,000)	(40.00%)
6800 Public/Legal Notices	0	1,000	5,000	2,000	(3,000)	(60.00%)
6820 Rents and Leases-Equip	141,285	150,000	85,000	150,000	65,000	76.47%
6840 Rents and Leases-Bldg/Imp	1,256	0	0	0	0	N/A
6880 Small Tools - Instruments	118,728	120,000	100,000	100,000	0	0.00%
6889 Software	29,095	30,000	0	10,000	10,000	N/A
6890 Computer Hardware	2,365	5,000	10,000	10,000	0	0.00%
7035 Signs	646	500		500	500	N/A
7120 Training-in-Service	11,484	10,000	15,000	15,000	0	0.00%
7201 Gas / Oil	56,283	5,000	5,000	6,000	1,000	20.00%
7206 Equipment Usage Charge	795,411	600,000	600,000	600,000	0	0.00%
7212 Chlorine Chem/Recorder	865,606	850,000	850,000	900,000	50,000	5.88%
7217 State Permits / Fees	0	0	30,000	0	(30,000)	(100.00%)
7250 Reimbursable Projects	0	0	2,000	0	(2,000)	(100.00%)
7296 FERC Fees / Costs	0	0	5,000	5,000	0	0.00%
7297 Riverfront Park Levee Maintenance	0	0	25,000	25,000	0	0.00%
7302 Travel Expense	14,027	14,000	20,000	15,000	(5,000)	(25.00%)
7303 Private Car Expense	1,466	2,000	2,500	2,000	(500)	(20.00%)
7320 Utilities	13,508	9,500	1,000	13,000	12,000	1200.00%
7394 Power	4,803,201	4,700,000	4,700,000	4,400,000	(300,000)	(6.38%)
SUBTOTAL	19,423,392	18,749,873	19,049,500	21,048,500	1,999,000	10.49%
<b>OTHER CHARGES</b>						
7920 Interest Expense	0	0	45,000	0	(45,000)	(100.00%)
7924 Interest-PY	(40)	(40)	0	0	0	N/A
7980 Depreciation	5,486,202	5,694,500	5,700,000	5,727,000	27,000	0.47%
7981 Amortization	27,110	159,625	129,000	241,500	112,500	87.21%
8090 Loss on Fixed Assets	264,205	0	0	0	0	N/A
SUBTOTAL	5,777,476	5,854,085	5,874,000	5,968,500	94,500	1.61%
<b>FIXED ASSETS</b>						
8510 Buildings / Improvements	0	(27)	70,000	0	(70,000)	(100.00%)
8533 SCWA-New Metered Ser	0	0	20,000	0	(20,000)	(100.00%)
8560 Equipment	104,163	10,114	75,000	60,000	(15,000)	(20.00%)
9480 Intangible Assets	19,377	36,000	0	0	0	N/A

Section Title:

**Water Transmission System Agency Fund**

Section/Index No:

**675108**

Subsubject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
9482 Amort WIP Outlay	142	150	0	0	0	N/A
SUBTOTAL	123,682	46,237	165,000	60,000	(105,000)	(63.64%)
<b><u>OTHER FINANCING USES</u></b>						
8625 OT - W/in Special Dist	14,134,472	25,293,147	16,370,530	13,355,392	(3,015,138)	(18.42%)
SUBTOTAL	14,134,472	25,293,147	16,370,530	13,355,392	(3,015,138)	(18.42%)
<b><u>APPROP. FOR CONTINGENCIES</u></b>						
9000 Approp. for Contingencies	0	0	140,000	0	(140,000)	(100.00%)
SUBTOTAL	0	0	140,000	0	(140,000)	(100.00%)
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
9200 Ent - Principal	0	0	282,562	282,562	0	0.00%
9209 Ent - Principal Clearing	0	0	(282,562)	(282,562)	0	0.00%
SUBTOTAL	0	0	0	0	0	N/A
<b><u>PRIOR YEAR ENCUMBRANCE EXPENSE</u></b>						
9614 PY Enc - Maintenance Equip	40,690	290,369	334,143	0	(334,143)	(100.00%)
9618 PY Enc - Maintenance Bldgs/Imp	16,448	68,265	68,265	0	(68,265)	(100.00%)
9640 PY Enc - Office Expense	0	0	0	0	0	N/A
9650 PY Enc - Profess / Special	353,697	448,504	448,504	0	(448,504)	(100.00%)
9688 PY Enc - Small Tools / Instruments	0	0	0	0	0	N/A
9700 PY Enc - Special Dept Exp	472	4,672	4,200	0	(4,200)	(100.00%)
9852 PY Enc - Bldg / Imp / Equip	0	0	0	0	0	N/A
9853 PY Enc - Equip	0	0	0	0	0	N/A
SUBTOTAL	411,307	811,810	855,112	0	(855,112)	(100.00%)
<b>TOTAL EXPENDITURES</b>	<b>39,870,329</b>	<b>50,755,152</b>	<b>42,454,142</b>	<b>40,432,392</b>	<b>(2,021,751)</b>	<b>(4.76%)</b>
Depreciation/Amortization	5,513,312	5,854,125		5,727,000		
Outstanding Encumbrances - (Decrease) Fund Balance	(15,002)	0		0		
Capitalized Interest	(40)	0		0		
Gain/Loss of Disposal of Fixed Asset	264,205	0				
Cash Movement from RESCO JV FYE 12-13	(228,773)					
<b>ENDING FUND BALANCE</b>	<b>12,438,164</b>	<b>6,684,780</b>		<b>7,193,776</b>		

Operations and Maintenance 675108 Fund Balance Reserve Goal  
Over/(Under) Goal

5,337,500  
1,856,276



**Water Transmission System Agency Fund**  
**Major Services & Supplies Expenditure Items**

Sub-Object No. and Title	Actual FY 12-13	Adopted FY 13-14	Requested FY 14-15	Difference	Percent Change
<u>6140 Maintenance - Equipment</u> See Project List on page A-12 for detail.	709,493	1,125,000	1,000,000	(125,000)	-11.1%
<u>6180 Maintenance - Projects</u> Starting in Fy 2012/13 the costs to maintain the pumping, storage, pipeline and hydro-electric facilities will be budgeted in 6140.	238,403	0	0	0	#DIV/0!
<u>6280 Memberships</u> Reflects level of actual expenditures.	39,485	75,000	40,000	(35,000)	-46.7%
<u>6461 Supplies / Expenses</u> Reflects level of actual expenditures.	26,831	50,000	30,000	(20,000)	-40.0%
<u>6512 Testing / Analysis</u> Reflects level of expected expenditures.	113,949	135,000	135,000	0	0.0%
<u>6523 District Operations</u> Anticipated higher costs based on prior year actuals.	10,729,450	9,800,000	11,500,000	1,700,000	17.3%
<u>6570 Consultant Services</u> See Consultant Services Project List for detail on page A-13.	343,219	985,000	986,000	1,000	0.1%
<u>6610 Legal Services</u> Reflects level of actual expenditures.	29,487	50,000	30,000	(20,000)	-40.0%
<u>6880 Small Tools - Instruments</u> Reflects level of expected expenditures.	118,728	100,000	100,000	0	0.0%
<u>6889 Software</u> Reflects level of expected expenditures.	29,095	0	10,000	10,000	#DIV/0!
<u>7206 Equipment Usage Charge</u> Reflects level of actual expenditures.	795,411	600,000	600,000	0	0.0%
<u>7212 Chlorine Chemical / Recorder</u> Reflects level of actual expenditures.	865,606	850,000	900,000	50,000	5.9%
<u>7394 Power</u> Reflects level of expected expenditures.	4,803,201	4,700,000	4,400,000	(300,000)	-6.4%
<u>8560 Equipment</u> Reflects level of expected expenditures.	104,163	75,000	60,000	(15,000)	-20.0%

## FY 2014-15 BUDGET

### Water Transmission System Agency Fund

	DESCRIPTION - 6180 Maintenance Buildings	AMOUNT
1	Combined with 6140	
<b>6180 Total</b>		\$ -

	DESCRIPTION - 6140 Maintenance -Contracts and Equipment	AMOUNT
1	Petaluma Aqueduct cathodic protection upgrade	260,000
2	Santa Rosa Aqueduct Cathodic Protection Upgrade	120,000
3	RR-Cotati Intertie - Cathodic Protection Upgrade	25,000
4	Electrical Supplies and Maintenance Services	150,000
5	Pump and Pipeline Supplies and Maintenance Services	150,000
6	Hardware and Miscellaneous Supplies	120,000
7	Collector 6 Chlorine Lines Maintenance	80,000
8	Replace Turbidimeters	40,000
9	Grounds Maintenance	30,000
10	Safety Equipment and Safety Equipment Testing	25,000
<b>6140 Total</b>		\$ 1,000,000

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**Water Transmission Agency Fund, #675108  
Multi-Year Subobject Review  
FY 2014-15 BUDGET**

Subobject Title	Subobject Number	Actual FY 06/07	Actual FY 07/08	Actual FY 08/09	Actual FY 09/10	Actual FY10/11	Actual FY 12-13	Estimate FY 13-14	Budget FY 14-15
Maintenance - Equipment	6140	1,777,109	1,036,922	927,294	865,722	695,787	709,493	800,000	1,000,000
Maintenance - Bldg/Imp	6180	1,949,875	1,880,212	495,840	272,670	75,853	238,403	0	0
District Operations	6523	8,931,495	10,597,113	10,829,182	10,068,704	9,160,367	10,729,450	10,500,000	11,500,000
<b>Total of the Four Cost Categories</b>		<b>\$ 12,658,480</b>	<b>\$ 13,514,247</b>	<b>\$ 12,252,316</b>	<b>\$ 11,207,096</b>	<b>\$ 9,932,008</b>	<b>\$ 11,677,346</b>	<b>\$ 11,300,000</b>	<b>\$ 12,500,000</b>
<i>Percentage Change from Prior Year</i>			6.76%	-9.34%	-8.53%	-11.38%	4.20%	-3.23%	10.62%

Subobject Title	Subobject Number	Actual FY 06/07	Actual FY 07/08	Actual FY 08/09	Actual FY 09/10	Actual FY10/11	Actual FY 12-13	Estimate FY 13-14	Budget FY 14-15
Consulting Service	6570	\$ 693,373	\$ 712,593	\$ 860,688	\$ 653,985	\$ 290,581	\$ 343,219	\$ 345,000	\$ 986,000
<i>Percentage Change from Prior Year</i>			2.77%	20.78%	-24.02%	-55.57%	-47.52%	0.52%	185.80%

**Itemized Detail for 6540 Contract Services and 6570 Consulting Services**

DESCRIPTION	Budget FY 14-15
Recoat Kastania Tank	300,000
Forestville Tanks Recoat	500,000
Riverfront Park Maintenance	90,000
<b>6540 Total</b>	<b>890,000</b>
Aqueduct Condition Assessments	280,000
LHMP - program planning	15,000
AMI Flow Monitoring	60,000
LBNL Wohler Geophysics (phase 2 & 3)	85,000
USGS Water Quality (Diversion Facilities) and SW/GW Studies	125,000
As-Needed Dive Services	75,000
Groundwater Banking Feasibility - Pilot Studies	190,000
Multi-year Water Quality Study	0
Legislative Advocacy - Federal	70,000
Water Shortage Allocation Methodology	0
Mirabel Flow meters	0
BAIRWMP	30,000
NCIRWMP	26,000
Conservation strategy group	0
Natural Resource Results	0
Reports/Signs/Brochures	0
ACWA Meeting Sponsorships	0
Community Outreach Program	5,000
Legislative Advocacy - State	25,000
<b>6570 Total</b>	<b>\$ 986,000</b>

Subobject Title	Subobject Number	Actual FY 06/07	Actual FY 07/08	Actual FY 08/09	Actual FY 09/10	Actual FY10/11	Actual FY 12-13	Estimate FY 13-14	Budget FY 14-15
Power Usage Review	7394	\$ 3,237,565	\$ 5,930,313	\$ 4,928,287	\$ 3,739,841	\$ 4,475,440	\$ 4,803,201	\$ 4,700,000	\$ 4,400,000
<i>Percentage Change from Prior Year</i>			83.17%	-16.90%	-24.11%	19.67%	28%	-2%	-6%

**FY 2014-15 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title: Common Facilities

Section/Index No: 675421

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	(875,006)	3,221,676		3,317,789		

**REVENUES**

**USE OF MONEY / PROPERTY**

1700 Interest on Pooled Cash	(10,385)	19,644	195	6,000	5,805	2976.92%
SUBTOTAL	(10,385)	19,644	195	6,000	5,805	2976.92%

**Charges for Services**

3980 Revenue Apply to PY	0	313	0	0	0	N/A
SUBTOTAL	0	313	0	0	0	N/A

**Miscellaneous Revenues**

4303 State Grants	70,537	0	0	0	0	N/A
4304 Federal Grants		0	0	1,930,181		
SUBTOTAL	70,537	0	0	2,295,181	2,295,181	N/A

**ADMINISTRATIVE CONTROL**

4210 Advances	0	4,100,000	400,000	0	(400,000)	(100.00%)
4219 Advances - Clearing	0	(4,100,000)	(400,000)	0	400,000	(100.00%)
SUBTOTAL	0	0	0	0	0	N/A

**OTHER FINANCING SOURCES**

4625 OT - W/in Special Dist	3,651,755	14,655,000	5,985,708	2,556,527	(3,429,181)	(57.29%)
SUBTOTAL	3,651,755	14,655,000	5,985,708	2,556,527	(3,429,181)	(57.29%)

**TOTAL REVENUES**

<b>3,711,906</b>	<b>14,674,957</b>	<b>5,985,903</b>	<b>4,857,708</b>	<b>(1,128,195)</b>	<b>(18.85%)</b>
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**EXPENDITURES**

**OTHER CHARGES**

7920 Interest Payment	0	250,656	250,656	160,526	(90,130)	(35.96%)
7924 Capital Interest	(219,859)	0	0	0	0	N/A
SUBTOTAL	(219,859)	250,656	250,656	160,526	(90,130)	(35.96%)

**FIXED ASSETS**

8500 Land	0	1,062,378	0	0	0	N/A
8510 Buildings / Improvements	1,839,972	3,000,000	1,250,000	1,415,000	165,000	13.20%
8529 Isolation Valves & Meters	6,328	260,000	545,000	2,800,000	2,255,000	413.76%
9105 Mirabel Fish Screen Replacement	133,117	11,170,000	2,950,000	775,000	(2,175,000)	(73.73%)
9107 Air Valves	0	660,000	290,000	0	(290,000)	(100.00%)
9128 Local Hazard Mitigation	8,211	1,850,000	800,000	700,000	(100,000)	(12.50%)
9480 Intangible Assets	4,752	4,752	0	750,000	750,000	N/A
9482 Amort WIP Outlay	0	3,084	0	1,250,000	1,250,000	N/A
SUBTOTAL	2,024,740	18,010,548	5,835,000	7,690,000	1,855,000	31.79%

**ADMIN. CONTROL ACCOUNT**

9210 Advances	0	0	418,465	75,466	(342,999)	(81.97%)
9219 Advances - Clearing	0	0	(418,465)	(75,466)	342,999	(81.97%)
SUBTOTAL	0	0	0	0	0	N/A

Section Title:

Common Facilities

Section/Index No:

675421

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b><u>PRIOR YEAR ENCUMBRANCE EXPENSE</u></b>						
9852 PY Enc - Bldg / Imp	986,973	417,640	0	0	0	N/A
SUBTOTAL	986,973	417,640	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>2,791,854</b>	<b>18,678,844</b>	<b>6,085,656</b>	<b>7,850,526</b>	<b>1,764,870</b>	<b>29.00%</b>
Loan	0	4,100,000		0		
Outstanding Encumbrances - Net Change	639,409	0		0		
Capitalized Interest	(219,859)	0		0		
Principal payment on Loan from AQ funds	0	0		(75,466)		
Change in Deposit with Others	2,757,080	0		0		
<b>ENDING FUND BALANCE</b>	<b>3,221,676</b>	<b>3,317,789</b>		<b>249,505</b>		

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**FY 2014-15 BUDGET**  
**Common Facilities - Section 675421**  
**Detailed Listing of Capital Projects**

SUB-OBJECT DESCRIPTION	Project & Subobject	FY 2014-15 BUDGET
<b>8510 Buildings and Improvements</b>		
DESCRIPTION		
Mirabel-River Road Fiber Optic Cable		100,000
RDS Pump Replacement		350,000
Caisson 6 Vaults		150,000
Wohler Motor Replacements		350,000
pH Pump Replacement		100,000
Water Agency Westside Facility - see offsetting revenue		365,000
		<b>1,415,000</b>
<b>8529 Isolation Valves and Meters</b>		
DESCRIPTION		
Isolation Valves	7379, 7497	2,800,000
	<b>8529 Total</b>	<b>2,800,000</b>
<b>9105 Mirabel Fish Screen Replacement</b>		
DESCRIPTION		
Mirabel Fish Screen - Fish Ladder Project	7357, 7532	775,000
	<b>9105 Total</b>	<b>775,000</b>
<b>9107 Air Valves</b>		
DESCRIPTION		
Air Valves	7429	0
	<b>9107 Total</b>	<b>0</b>
<b>9128 Local Hazard Mitigation Projects</b>		
DESCRIPTION		
RR Crossing		150,000
MW Creek Crossing		310,000
Collector 6 Liquefaction Mitigation		40,000
Collectors 3 and 5 Liquefaction Mitigation Predesign		200,000
	<b>9128 Total</b>	<b>700,000</b>
<b>9480 Intangible Asset</b>		
DESCRIPTION		
SCADA Software and Hardware		750,000
	<b>9480 Total</b>	<b>750,000</b>
<b>9482 Amort WIP outlay</b>		
DESCRIPTION		
SCADA Upgrade		1,250,000
	<b>9482 Total</b>	<b>1,250,000</b>

**Total Common Facilities                    \$        7,690,000**

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Pipeline Facilities

Section/Index No: 675413

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>557,911</b>	<b>(56,832)</b>		<b>132,761</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	1,044	(7,656)	2,730	90	(2,640)	-96.70%
SUBTOTAL	1,044	(7,656)	2,730	90	(2,640)	-96.70%
<b><u>INTERGOVERNMENTAL REVENUE</u></b>						
2852 Federal Grants	(217,379)	500,000	0	0	0	N/A
SUBTOTAL	(217,379)	500,000	0	0	0	N/A
<b><u>CHARGES FOR SERVICES</u></b>						
3145 Plans/Specs	260	0				N/A
SUBTOTAL	260	0	0	0	0	N/A
<b><u>MISCELLANEOUS REVENUE</u></b>						
4304 Fed Grants	1,297,473	50,612	0	0	0	N/A
SUBTOTAL	1,297,473	50,612	0	0	0	N/A
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	2,603,041	1,095,000	260,000	151,000	(109,000)	(41.92%)
4625 OT - W/in Special Assessment	0					
SUBTOTAL	2,603,041	1,095,000	260,000	151,000	(109,000)	(41.92%)
<b>TOTAL REVENUES</b>	<b>3,684,440</b>	<b>1,637,956</b>	<b>262,730</b>	<b>151,090</b>	<b>(111,640)</b>	<b>(42.49%)</b>
<b>EXPENDITURES</b>						
<b><u>FIXED ASSETS</u></b>						
9106 Santa Rosa Aqueduct	0	0	0	15,000	15,000	N/A
9128 Local Hazard Mitigation	2,462,603	150,000	60,000	0	(60,000)	(100.00%)
9154 Petaluma Aqueduct	0	0	0	15,000	15,000	N/A
9192 Sonoma Aqueduct	4,000	420,000	350,000	250,000	(100,000)	(28.57%)
9482 Amort WIP Outlay	(2,419)	0	0	0	0	N/A
SUBTOTAL	3,161,940	570,000	410,000	280,000	(130,000)	(31.71%)
<b><u>OTHER CHARGES</u></b>						
7924 Interest - Prior Year	(60,928)	0	0	0	0	N/A
SUBTOTAL	(60,928)	0	0	0	0	N/A
<b><u>PRIOR YEAR ENCUMBRANCE EXPENSE</u></b>						
9852 PY Enc - Bldg / Imp	9,037	878,363	0	0	0	N/A
SUBTOTAL	9,037	878,363	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>3,110,049</b>	<b>1,448,363</b>	<b>410,000</b>	<b>280,000</b>	<b>(130,000)</b>	<b>(31.71%)</b>
Outstanding Encumbrances - Net Change	(810,103)	0				
Capitalized Interest	(60,928)	0				
CIP Adjustment	(318,103)					
<b>ENDING FUND BALANCE</b>	<b>(56,832)</b>	<b>132,761</b>		<b>3,851</b>		

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Storage Facilities

Section/Index No: 675405

Subject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>32,682</b>	<b>(1,688,286)</b>		<b>734,436</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	1,305	(12,941)	1,203	1,110	(93)	(7.73%)
SUBTOTAL	1,305	(12,941)	1,203	1,110	(93)	(7.73%)
<b><u>MISCELLANEOUS REVENUE</u></b>						
4102 Donations/Reimbursements	0	0	100,000	0	(100,000)	(100.00%)
4040 Miscellaneous		5,031				
4303 State Grant (Petaluma AQ - Caltrans Project)	276,092	0	0	0	0	N/A
SUBTOTAL	276,092	5,031	100,000	0	(100,000)	(100.00%)
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	430,237	780,000	590,000	50,000	(540,000)	(91.53%)
SUBTOTAL	430,237	780,000	590,000	50,000	(540,000)	(91.53%)
<b>TOTAL REVENUES</b>	<b>707,654</b>	<b>772,090</b>	<b>691,203</b>	<b>51,110</b>	<b>(640,093)</b>	<b>(92.61%)</b>
<b>EXPENDITURES</b>						
<b><u>OTHER CHARGES</u></b>						
7920 Interest Payment				90,130	90,130	N/A
7924 Interest - Prior Year	(40,397)	(40,397)	0	0	0	N/A
SUBTOTAL	(40,397)	(40,397)	0	90,130	90,130	N/A
<b><u>FIXED ASSETS</u></b>						
8510 Buildings/Improvements	217,443	0	0	0	0	N/A
8543 Petaluma Aque Relocation	111	240,000	240,000	50,000	(190,000)	(79.17%)
9480 Intangible Asset	862	862	0	0	0	N/A
9162 Kawana to Ralphine Tanks	0	400,000	450,000	240,000	(210,000)	(46.67%)
SUBTOTAL	218,416	640,862	690,000	290,000	(400,000)	(57.97%)
<b><u>PRIOR YEAR ENCUMBRANCE EXPENSE</u></b>						
9852 PY Enc - Bldg / Imp / Equip	66,351	48,903	48,903	0	(48,903)	(100.00%)
SUBTOTAL	66,351	48,903	48,903	0	(48,903)	(100.00%)
<b>TOTAL EXPENDITURES</b>	<b>244,370</b>	<b>649,368</b>	<b>738,903</b>	<b>380,130</b>	<b>(358,773)</b>	<b>(48.55%)</b>
Advances from Aqueduct funds		2,300,000				
Principal payment on Loan from AQ funds				(42,297)		
Outstanding Encumbrances - Net C	66,351	0				
Capitalized Interest	(40,397)	0		0		
CIP Adjustment	(2,210,206)					
<b>ENDING FUND BALANCE</b>	<b>(1,688,286)</b>	<b>734,436</b>		<b>363,119</b>		



# FY 14-15

## Capital Improvement Projects

Project	Category	Amount
Petaluma Aq Relocation – Kastania (Caltrans Project)	Storage	50,000
Ralphine Tanks Flow Thru Conversion	Storage	140,000
24" Oakmont Pipeline Replacement	Storage	100,000
Local Hazard Mitigation Program - Program Design (for Future FEMA Funds)	Pipeline	15,000
LHMP - Program Design (for Future FEMA Funds)	Pipeline	15,000
LHMP - Program Design (for Future FEMA Funds)	Pipeline	15,000
Condition Assessment Study	Pipeline	15,000
SBS Electrical Upgrade and Pumping Reliability	Pipeline	220,000
Isolation Valves (FEMA Funds - \$1.9M)	Common	2,800,000
Mirabel Fish Screen/Fish Ladder (Dept of Fish and Wildlife Funds - \$1.18M)	Common	775,000
RR Crossing (FEMA Funds - \$2.9M)	Common	150,000
MW Creek Crossing (FEMA Funds - \$2.8M)	Common	310,000
Collector 6 Liquefaction Mitigation (for Future FEMA Funds)	Common	40,000
Collectors 3 and 5 Liquefaction Mitigation Predesign (for Future FEMA Funds)	Common	200,000
Mirabel-River Road Fiber Optic Cable (Install with RR Crossing Project)	Common	100,000
RDS Pump Replacement	Common	350,000
Caisson 6 Vaults	Common	150,000
Wohler Motor Replacements	Common	350,000
pH Pump Replacement	Common	100,000
Water Agency Westside Facility - offsetting revenue \$365,000	Common	365,000
SCADA Software and Hardware	Common	750,000
SCADA Upgrade	Common	1,250,000
		8,260,000
	Storage	290,000
	Pipeline	280,000
	Common	7,690,000

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: North Marin Water Deposit

Section/Index No: 675512

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	12,689	12,821		12,921		

**REVENUES**

**USE OF MONEY / PROPERTY**

1700 Interest on Pooled Cash	132	100	109	101	(8)	(7.52%)
SUBTOTAL	132	100	109	101	(8)	(7.52%)

**Intergovernmental Revenue**

2900 Other Government Agencies:	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A

**MISCELLANEOUS REVENUES**

4625 OT - W/in Special Dist	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A

<b>TOTAL REVENUES</b>	<b>132</b>	<b>100</b>	<b>109</b>	<b>101</b>	<b>(8)</b>	<b>(7.52%)</b>
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**EXPENDITURES**

**OTHER CHARGES**

8010 Contribution Non-Co Govt	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A

**OTHER FINANCING USES**

8625 OT - W/in Special Dist	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A

<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
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<b>ENDING FUND BALANCE</b>	<b>12,821</b>	<b>12,921</b>		<b>13,022</b>		
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**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:  
Section/Index No:

<b>Santa Rosa Aqueduct Capital Fund</b>
<b>675207</b>

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>5,885,357</b>	<b>3,537,790</b>		<b>1,775,468</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

1700 Interest on Pooled Cash	45,505	25,000	29,250	10,800	(18,450)	(63.08%)
1701 Interest Earned	0	90,130	90,130	90,130	0	0.00%
SUBTOTAL	45,505	115,130	119,380	100,930	(18,450)	(15.45%)

**ADMINISTRATIVE CONTROL ACCOUNT**

4210 Advances	0	0	0	42,297	42,297	N/A
4219 Advances - Clearing	0	0	0	(42,297)	(42,297)	N/A
SUBTOTAL	0	0	0	0	0	N/A

**OTHER FINANCING SOURCES**

4625 OT - W/in Special Dist	151,920	422,548	530,275	433,516	(96,759)	(18.25%)
SUBTOTAL	151,920	422,548	530,275	433,516	(96,759)	(18.25%)

<b>TOTAL REVENUES</b>	<b>197,425</b>	<b>537,678</b>	<b>649,655</b>	<b>534,446</b>	<b>(115,209)</b>	<b>(17.73%)</b>
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**EXPENDITURES**

**OTHER FINANCING USES**

8625 OT - W/in Special Dist	2,544,992	0	60,000	15,000	(45,000)	(75.00%)
SUBTOTAL	2,544,992	0	60,000	15,000	(45,000)	(75.00%)

<b>TOTAL EXPENDITURES</b>	<b>2,544,992</b>	<b>0</b>	<b>60,000</b>	<b>15,000</b>	<b>(45,000)</b>	<b>(75.00%)</b>
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Advances to Storage	(2,300,000)	0
Increase/(Decrease) in Loan Payable		0
Principal Receipt on Advance		42,297

<b>ENDING FUND BALANCE</b>	<b>3,537,790</b>	<b>1,775,468</b>	<b>2,337,211</b>
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**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Petaluma Aqueduct Capital Fund  
 Section/Index No: 675215

Subsubject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	5,433,916	5,603,507		2,082,574		

**REVENUES**

**USE OF MONEY / PROPERTY**

1700 Interest on Pooled Cash	42,524	37,000	37,050	15,000	(22,050)	(59.51%)
1701 Interest Earned	0	160,526	160,526	160,526	0	0.00%
SUBTOTAL	42,524	197,526	197,576	175,526	(22,050)	(11.16%)

**ADMINISTRATIVE CONTROL ACCOUNT**

4210 Advances	0	0	0	75,466	75,466	N/A
4219 Advances - Clearing	0	0	0	(75,466)	(75,466)	N/A
SUBTOTAL	0	0	0	0	0	N/A

**OTHER FINANCING SOURCES**

4625 OT - W/in Special Dist	127,067	451,541	789,750	453,155	(336,595)	(42.62%)
SUBTOTAL	127,067	451,541	789,750	453,155	(336,595)	(42.62%)
<b>TOTAL REVENUES</b>	<b>169,591</b>	<b>649,067</b>	<b>987,326</b>	<b>628,681</b>	<b>(358,645)</b>	<b>(36.32%)</b>

**EXPENDITURES**

**OTHER FINANCING USES**

8625 OT - W/in Special Dist	0	70,000	0	15,000	15,000	N/A
SUBTOTAL	0	70,000	0	15,000	15,000	N/A
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>15,000</b>	<b>15,000</b>	<b>N/A</b>

Advance to Common	(4,100,000)	0
Increase/(Decrease) in Loan Payable		0
Principal Receipt on Advance		75,466

<b>ENDING FUND BALANCE</b>	5,603,507	2,082,574	2,771,721
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**FY 2014-15 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title: Sonoma Aqueduct Capital Fund  
 Section/Index No: 675231

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	176,164	266,724		650		
<b>REVENUES</b>						
<u>USE OF MONEY / PROPERTY</u>						
1700 Interest on Pooled Cash	1,379	1,500	2,925	1,200	(1,725)	(58.97%)
1701 Interest Earned	0	0	0	0	0	N/A
SUBTOTAL	1,379	1,500	2,925	1,200	(1,725)	(58.97%)
<u>OTHER FINANCING SOURCES</u>						
4625 OT - W/in Special Dist	89,182	142,425	257,736	81,765	(175,971)	(68.28%)
SUBTOTAL	89,182	142,425	257,736	81,765	(175,971)	(68.28%)
<b>TOTAL REVENUES</b>	<b>90,560</b>	<b>143,925</b>	<b>260,661</b>	<b>82,965</b>	<b>(177,696)</b>	<b>(68.17%)</b>
<b>EXPENDITURES</b>						
<u>OTHER FINANCING USES</u>						
8625 OT - W/in Special Dist	0	410,000	0	80,000	80,000	N/A
SUBTOTAL	0	410,000	0	80,000	80,000	N/A
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>410,000</b>	<b>0</b>	<b>80,000</b>	<b>80,000</b>	<b>N/A</b>
<b>ENDING FUND BALANCE</b>	266,724	650		3,615		

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Water Management Planning

Section/Index No:

675710

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>294,019</b>	<b>357,800</b>		<b>364,556</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	3,069	2,000	2,275	2,100	(175)	(7.69%)
SUBTOTAL	3,069	2,000	2,275	2,100	(175)	(7.69%)
<b><u>Intergovernmental Revenue</u></b>						
2912 Town of Windsor	3,866	2,976	2,962	3,096	134	4.51%
SUBTOTAL	3,866	2,976	2,962	3,096	134	4.51%
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	61,500	51,780	45,000	44,500	(500)	(1.11%)
SUBTOTAL	61,500	51,780	45,000	44,500	(500)	(1.11%)
<b>TOTAL REVENUES</b>	<b>68,435</b>	<b>56,756</b>	<b>50,237</b>	<b>49,696</b>	<b>(541)</b>	<b>(1.08%)</b>
<b>EXPENDITURES</b>						
<b><u>Services and Supplies</u></b>						
6523 District Operations	4,654	25,000	25,000	50,000	25,000	100.00%
6570 Consultant Svs	(2,710)	0	20,000	200,000	180,000	900.00%
SUBTOTAL	1,944	25,000	45,000	250,000	205,000	455.56%
<b><u>PRIOR YEAR ENCUMBRANCE EXPENSE</u></b>						
9650 PY Enc - Profess/Special	35,704	25,000	55,236	0	(55,236)	(100.00%)
SUBTOTAL	35,704	25,000	55,236	0	(55,236)	(100.00%)
<b>TOTAL EXPENDITURES</b>	<b>37,648</b>	<b>50,000</b>	<b>100,236</b>	<b>250,000</b>	<b>149,764</b>	<b>149.41%</b>
Outstanding Encumbrances - Net Change	32,994					
<b>ENDING FUND BALANCE</b>	<b>357,800</b>	<b>364,556</b>		<b>164,252</b>		

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Watershed Planning/Restoration

Section/Index No:

675728

Subsubject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	548,116	2,973,611		5,264,390		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	12,103	10,000	16,250	18,000	1,750	10.77%
SUBTOTAL	12,103	10,000	16,250	18,000	1,750	10.77%
<b><u>Intergovernmental Revenue</u></b>						
2912 Town of Windsor	287,469	259,837	259,837	252,835	(7,002)	(2.69%)
SUBTOTAL	287,469	259,837	259,837	252,835	(7,002)	(2.69%)
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	4,573,599	4,520,942	3,947,000	3,634,500	(312,500)	(7.92%)
SUBTOTAL	4,573,599	4,520,942	3,947,000	3,634,500	(312,500)	(7.92%)
<b>TOTAL REVENUES</b>	<b>4,873,207</b>	<b>4,790,779</b>	<b>4,223,087</b>	<b>3,905,335</b>	<b>(317,752)</b>	<b>(7.52%)</b>
<b>EXPENDITURES</b>						
<b><u>Services and Supplies</u></b>						
6523 District Operations - RRIFR Program	1,566,141	2,000,000	2,507,000	2,693,500	186,500	7.44%
6540 Contract Services	27,702	500,000	0	0	0	N/A
6570 Consultant Services - RRIFR Program	98,012	0	1,060,000	1,276,000	216,000	20.38%
6800 Public/Legal Notices	92,547	0	30,000	0	(30,000)	(100.00%)
SUBTOTAL	1,965,760	2,500,000	3,597,000	3,969,500	372,500	10.36%
<b><u>Other Charges</u></b>						
7924 Interest PY	(6,942)	0	0	0	0	N/A
8010 Contribution Non-County Government	(6,942)	0	350,000	0	(350,000)	(100.00%)
SUBTOTAL	(6,942)	0	350,000	0	(350,000)	(1)
<b><u>FIXED ASSETS</u></b>						
9482 Amort WIP Outlay	164,677	0	0	0	0	N/A
SUBTOTAL	164,677	0	0	0	0	N/A
<b><u>PRIOR YEAR ENCUMBRANCE EXPENSE</u></b>						
9618 PY Enc-Maint Bldgs/Imp	0	0	10,712	0	(10,712)	(100.00%)
9650 PY Enc - Profess/Special	232,586	0	556,554	0	(556,554)	(100.00%)
SUBTOTAL	232,586	0	567,266	0	(567,266)	(100.00%)
<b>TOTAL EXPENDITURES</b>	<b>2,356,080</b>	<b>2,500,000</b>	<b>4,514,266</b>	<b>3,969,500</b>	<b>(544,766)</b>	<b>(12.07%)</b>
Outstanding Encumbrances - Net Change	(84,690)					
Capital Interest	(6,942)					
<b>ENDING FUND BALANCE</b>	<b>2,973,611</b>	<b>5,264,390</b>		<b>5,200,224</b>		

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Recycled Water and Local Supply  
 Section/Index No: 675736

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>969,504</b>	<b>958,788</b>		<b>812,860</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	11,777	6,500	6,500	4,500	(2,000)	(30.77%)
SUBTOTAL	11,777	6,500	6,500	4,500	(2,000)	(30.77%)
<b><u>Intergovernmental Revenue</u></b>						
2500 ST-Other	303,827	0	0	0	0	N/A
2912 Town of Windsor	56,706	77,529	77,529	88,196	10,667	13.76%
SUBTOTAL	360,533	77,529	77,529	88,196	10,667	13.76%
<b><u>MISCELLANEOUS REVENUE</u></b>						
4102 Donations/Reimbursements	58,760	135,000	135,000	170,000	35,000	25.93%
SUBTOTAL	58,760	135,000	135,000	170,000	35,000	25.93%
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	929,694	1,348,935	1,177,685	1,267,819	90,134	7.65%
SUBTOTAL	929,694	1,348,935	1,177,685	1,267,819	90,134	7.65%
<b>TOTAL REVENUES</b>	<b>1,360,764</b>	<b>1,567,964</b>	<b>1,396,714</b>	<b>1,530,515</b>	<b>133,801</b>	<b>9.58%</b>
<b>EXPENDITURES</b>						
<b><u>Services and Supplies</u></b>						
6040 Communications	37	19	0	0	0	N/A
6060 Food	876	797	0	0	0	N/A
6140 Maint-Equipment	50	50	0	0	0	N/A
6180 Maint-Bldgs & Improvements	112	0	0	0	0	N/A
6400 Office Expense	203	203	0	0	0	N/A
6410 Postage	198	0	0	0	0	N/A
6430 Printing Supplies	417	1,344	0	0	0	N/A
6461 supplies/Expenses	979	1,143	0	0	0	N/A
6522 District Administration	0	0	0	0	0	N/A
6523 District Operations	423,739	500,597	296,000	455,000	159,000	53.72%
6540 Contract Services	39,271	80,000	0	0	0	N/A
6570 Consultant Services	25,063	0	530,000	490,000	(40,000)	(7.55%)
6610 Legal Services	1,669	1,793	4,731	1,883	(2,848)	(60.21%)
6630 Audit Services	0	0	0	0	0	N/A
6800 Public/Legal Notice	4,593	4,593	0	0	0	N/A
6820 Rents/Leases/Equipment	2,214	3,129	0	0	0	N/A
6840 Rents/Leases/Bldg/Imp	500	500	0	0	0	N/A
6880 Small Tools/Instruments	2,811	2,811	0	0	0	N/A
6889 Software	0	0	0	0	0	N/A
7022 Public Relations Exp	0	324	0	0	0	N/A
7201 Gas/Oil	0	0	0	0	0	N/A
7206 Equipment Usage	1,615	687	0	0	0	N/A
7217 State Permits/Fees	0	0	0	0	0	N/A
7277 Recycled Water Use	27,500	12,750	0	0	0	N/A
7302 Travel Expense	62	62	0	0	0	N/A
SUBTOTAL	531,910	610,802	830,731	946,883	116,152	13.98%



Section Title:  
Section/Index No:

<b>Recycled Water and Local Supply</b>
<b>675736</b>

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b><u>Other Charges</u></b>						
8010 Contribution Non-County Government (LRT2)	325,000	325,000	481,954	813,437	331,483	68.78%
SUBTOTAL	325,000	325,000	481,954	813,437	331,483	68.78%
<b><u>PRIOR YEAR ENCUMBRANCE EXPENSE</u></b>						
9618 PY Enc-Maint Bldgs/Imp	12,810	0	0	0	0	N/A
9650 PY Enc - Profess/Special	207,598	190,227	190,228	0	(190,228)	(100.00%)
9700 PY Enc - Special Dept Exp	10,000	185,705	185,705	0	(185,705)	(100.00%)
9801 PY Enc-Contrib Govmt Agency	0	324,629	324,629	0	(324,629)	(100.00%)
SUBTOTAL	230,408	700,561	700,562	0	(700,562)	(100.00%)
<b>TOTAL EXPENDITURES</b>	<b>1,087,317</b>	<b>1,636,363</b>	<b>2,013,247</b>	<b>1,760,319</b>	<b>(252,928)</b>	<b>(12.56%)</b>
Outstanding Encumbrances - Net Change	(237,457)					
Change in Windsor Reserve	(46,706)	(77,529)		(88,196)		
<b>ENDING FUND BALANCE</b>	<b>958,788</b>	<b>812,860</b>		<b>494,860</b>		

Draft

**Water Transmission System Agency Fund**  
**Local Supply / Recycled Water / Tier 2 Programs**  
**Balance as of November 14, 2013**

<i>Contractor</i>	<i>10-Year Allocation</i>	<i>Amount Approved by WAC</i>	<i>Amount Disbursed</i>	<i>Balance Available<sup>1</sup></i>	<i>Encumbered</i>
Santa Rosa	\$5,065,236	\$4,003,876	\$3,908,003	1,157,233	
Petaluma	2,197,913	2,197,913	2,197,913	0	
MMWD	1,724,026	1,000,000	1,000,000	724,026	
NMWD	1,846,726	1,846,726	1,846,726	0	
Rohnert Park	649,629	649,629	325,000	324,629	324,629
VOM WD	627,875	627,875	627,875	0	
Sonoma	539,411	450,000	264,294	275,117	185,706
Windsor	86,996	86,996	86,996	0	
Cotati	157,235	0	0	157,235	
Forestville	104,953	104,953	104,953	0	
<b>TOTAL</b>	<b>\$13,000,000</b>	<b>\$10,967,968</b>	<b>\$10,361,760</b>	<b>\$2,638,240</b>	

1. Balance Available based on 10-Year Allocation

*Program started June 30, 2000 - No end date specified.*

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

**Water Conservation**

Section/Index No:

**675744**

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>17,394</b>	<b>(185,936)</b>		<b>103,987</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
1700 Interest on Pooled Cash	2,013	4,917	1,365	600	(765)	(56.04%)
SUBTOTAL	2,013	4,917	1,365	600	(765)	(56.04%)
<b>Intergovernmental Revenue</b>						
2500 ST-Other	254,084	313,780	0	0	0	N/A
2900 Other Government Agencies	22,551	21,694	0	0	0	N/A
2911 City of Santa Rosa	0	0	0	0	0	N/A
2912 Town of Windsor	116,498	107,306	107,306	125,913	18,607	17.34%
SUBTOTAL	393,133	442,780	107,306	125,913	18,607	17.34%
<b>Miscellaneous Revenue</b>						
3980 Revenue Applicable to Prior Y	100	2,352	-	-	0	N/A
SUBTOTAL	100	2,352	0	0	0	N/A
<b>OTHER FINANCING SOURCES</b>						
4040 Miscellaneous Revenue	-	-	-	-	0	N/A
4102 Donations/Reimbursements	0	0	130,000	80,000	(50,000)	(38.46%)
4303 State Grants	0	0	510,000	130,000	(380,000)	(74.51%)
SUBTOTAL	0	0	640,000	210,000	(430,000)	(67.19%)
<b>OTHER FINANCING SOURCES</b>						
4625 OT - W/in Special Dist	1,923,183	1,867,022	1,730,000	1,810,000	80,000	4.62%
SUBTOTAL	1,923,183	1,867,022	1,730,000	1,810,000	80,000	4.62%
<b>TOTAL REVENUES</b>	<b>2,318,428</b>	<b>2,317,070</b>	<b>2,478,671</b>	<b>2,146,513</b>	<b>(332,158)</b>	<b>(13.40%)</b>
<b>EXPENDITURES</b>						
<b>Services and Supplies</b>						
6020 Clothing	235	235	0	0	0	N/A
6040 Communications	368	371	0	0	0	N/A
6060 Food	1,218	395	0	0	0	N/A
6140 Maint-Equipment	1,103	1,103	0	0	0	N/A
6180 Maint - Bldgs/Imp	9	9	0	0	0	N/A
6280 Memberships	1,444	(5,538)	0	0	0	N/A
6400 Office Supplies	3,028	2,798	0	0	0	N/A
6415 Books/Periodicals	907	1,196	0	0	0	N/A
6430 Printing Services	23,110	39,930	0	0	0	N/A
6461 Supplies/Expense	5,482	8,718	0	0	0	N/A
6516 Data Processing	3,269	3,269	0	0	0	N/A
6523 District Operations	1,251,558	720,069	1,070,000	1,070,000	0	0.00%
6536 Business Environmental Allia	14,859	14,860	0	0	0	N/A
6540 Contract Services	63,562	56,000	75,000	200,000	125,000	166.67%
6570 Consultant Services	729	0	0	0	0	N/A
6584 Trade Shows	0	0	20,000	20,000	0	0.00%
6610 Legal Services	2,356	2,245	0	0	0	N/A
6630 Audit/Accounting Services	0	0	0	0	0	N/A
6800 Public/Legal Notices	51,862	30,528	0	0	0	N/A
6820 Rents/Lease-Equipment	2,225	1,912	0	0	0	N/A
6840 Rents/Leases-Bldgs/Imp	200	200	0	0	0	N/A
6880 Small Tools/Instruments	8,546	8,442	0	0	0	N/A
6889 Software	0	3,000	0	0	0	N/A
6890 Computer Hardware	0	0	0	0	0	N/A
7022 Public Relations Expense	118,874	66,751	165,000	165,000	0	0.00%
7035 Signs	671	671	0	0	0	N/A
7120 Training-in-Service	4,800	350	0	0	0	N/A
7206 Equipment Usage Charge	10,984	5,000	0	0	0	N/A

Section Title:  
Section/Index No:

<b>Water Conservation</b>
<b>675744</b>

Subsubject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
7212 Chlorine Chem/Recorder	69	69	0	0	0	N/A
7247 Water Conservation	2,667	0	430,000	565,000	135,000	31.40%
7302 Travel Expense	3,523	4,724	0	0	0	N/A
7303 Private Car Expense	1,050	883	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,578,706</b>	<b>968,190</b>	<b>1,760,000</b>	<b>2,020,000</b>	<b>260,000</b>	<b>NA</b>
<b>Other Charges</b>						
8010 Contribution to Non-County	310,037	313,780	510,000	0	(510,000)	(100.00%)
<b>SUBTOTAL</b>	<b>310,037</b>	<b>313,780</b>	<b>510,000</b>	<b>0</b>	<b>(510,000)</b>	<b>(100.00%)</b>
<b>PRIOR YEAR ENCUMBRANCE EXPENSE</b>						
9650 PY Enc - Profess/Special	26,803	17,326	17,326	0	(17,326)	(100.00%)
9700 PY Enc - Special Dept Exp	54,234	28,984	28,984	0	(28,984)	(100.00%)
9801 PY Enc-Contrib Govmt Agenc	0	589,125	589,125	0	(589,125)	(100.00%)
<b>SUBTOTAL</b>	<b>81,037</b>	<b>635,435</b>	<b>635,435</b>	<b>0</b>	<b>(635,435)</b>	<b>(100.00%)</b>
<b>TOTAL EXPENDITURES</b>	<b>1,969,781</b>	<b>1,917,405</b>	<b>2,905,435</b>	<b>2,020,000</b>	<b>(885,435)</b>	<b>(30.48%)</b>
Outstanding Encumbrances	(541,754)					
Change in Windsor Reserve	(10,224)	(109,742)		(125,913)		
<b>ENDING FUND BALANCE</b>	<b>(185,936)</b>	<b>103,987</b>		<b>104,587</b>		

**FY 2014-15 BUDGET  
CHARACTER JUSTIFICATION**

Department - Division: Sonoma County Water Agency - Water Transmission

Section Title: Water Conservation

Character Title: Use of Money and Property Character No.: 675744-17

**1700 Interest on Pooled Cash**

This account records interest on pooled cash held for the Agency by the County Treasurer's office. Estimated interest is projected based on cash on hand and current interest rate trends.

Estimated Average Cash Balance	100,000
Projected Interest Rate	0.60%
Projected/Planned Interest on Pooled Cash	\$600

Character Title: Intergovernmental Revenues Character No.: 675744-20

**2912 Town of Windsor**

This item records revenue earned from the Town of Windsor for water diverted from the Russian River using the Town's equipment. Restructured Agreement 4.17b

Character Title: Miscellaneous Revenues Character No.: 675744-40

**4303 State Grants**

This is for a grant from CA Water Foundation 130,000

Character Title: Other Financing Sources Character No.: 675744-46

**4625 OT - W/in Special Dist - BOS**

This item records transfers of funds from the O&M fund to provide for planned expenditures. \$1,810,000

Character Title: Services and Supplies Character No.: 675744-60

**6523 District Operation**

This item is requested to provide for the charging of salaries, benefits and overhead costs for staff assigned to projects budgeted within the Water Conservation Fund.

Water Conservation, Water Education and Public Affairs Staff 1,070,000  
**\$ 1,070,000**

**6540 Contract Services** SAP Order No.  
 West County Transportation 7188 25,000  
 Economic Development Board & Green Business 7190 65,000  
 Take it From the Tap! Regional Program 110,000  
**\$ 200,000**

**6570 Consulting Services** SAP Order No.  
 Sonoma County Fair 7189 20,000  
**\$ 20,000**

**7022 Public Relations**  
 Partnership Outreach Campaign 7189 165,000  
**\$ 165,000**

**7247 Water Conservation** SAP Order No.  
 School Education Program 285,000  
 Adult Ed Program (QWEL ESL Curriculum Program) 7188 35,000  
 Seminars, Workshops, and Training 2319 35,000  
 Saving Water Partnership Wholesaler Support 50,000  
 Garden Sense Program 2319 10,000  
 Outreach & Events (350 Home & Garden Challenge, Eco Friendly Garden, etc) 20,000  
 California Water Foundation Grant 130,000  
**\$ 565,000**

Character Title: Other Charges Character No.: 675744-75

**8010 Contribution Non-County Governments**

This item is request to pass DWR grant monies through to other governments \$0

REVENUE BOND / STATE LOAN CHARGES - WATER RATES AND ESTIMATED REVENUES FOR FY 14-15

**A. ANNUAL DEBT SERVICE REQUIREMENTS**

	Common Facilities	Watershed Plan Restoration	Water Conservation	Storage Facilities	Sonoma Pipeline Facilities
<b>2012 A Revenue Bond</b>	<b>675454</b>	<b>TBD</b>	<b>TBD</b>	<b>675462</b>	<b>675470</b>
PRINCIPAL	\$206,388			\$147,393	\$121,221
INTEREST	169,205			120,804	99,193
FISCAL AGENT FEES	2,500			2,500	2,500
DEBT ISSUANCE COSTS	8,831			6,307	5,187
DISCOUNT/BONDS					
Total Individual Bond Payments	386,924	0		277,004	228,101
Bond Reserve	58,039	0		41,551	34,215
<b>Total Individual Bond Debt Service</b>	<b>444,963</b>	<b>0</b>		<b>318,555</b>	<b>262,316</b>
<b>2006 A Revenue Bond</b>	<b>675496</b>			<b>675488</b>	
PRINCIPAL	\$127,349			\$142,652	
INTEREST	215,446			241,334	
FISCAL AGENT FEES	2,500			2,500	
DEBT ISSUANCE COSTS	4,085			4,576	
DISCOUNT/BONDS					
Total Individual Bond Payments	349,380			391,062	0
Bond Reserve	52,407			58,659	0
<b>Total Individual Bond Debt Service</b>	<b>401,787</b>			<b>449,721</b>	<b>0</b>
<b>2013 Capital Fund Loan Requirement</b>					
PRINCIPAL	0				
INTEREST	0				
FISCAL AGENT FEES	0				
DEBT ISSUANCE COSTS	0				
DISCOUNT/BONDS	0				
Total Individual Loan Payments	0				
Loan Reserve					
<b>Total Individual Loan Debt Service</b>	<b>0</b>				
<b>2013 Santa Rosa AQ Capital Fund Loan</b>					
PRINCIPAL				42,297	
INTEREST				90,130	
FISCAL AGENT FEES				0	
DEBT ISSUANCE COSTS				0	
DISCOUNT/BONDS				0	
Total Individual Loan Payments				132,427	
Loan Reserve				0	
<b>Total Individual Loan Debt Service</b>	<b>0</b>			<b>132,427</b>	
<b>2013 Petaluma AQ Capital Fund Loan</b>					
PRINCIPAL	75,466				
INTEREST	160,526				
FISCAL AGENT FEES	0				
DEBT ISSUANCE COSTS	0				
DISCOUNT/BONDS	0				
Total Individual Loan Payments	235,992				
Loan Reserve					
<b>Total Individual Loan Debt Service</b>	<b>235,992</b>				
<u>1. 09/10 Financing Exp for Common Fac incl above until index established</u>	<b>Mirabel Generators</b>	<b>TBD - RRIFR</b>	<b>TBD - Water Ed Bldg</b>	<b>TBD - Oakmont Pipeline</b>	
PRINCIPAL	282,562				
INTEREST	43,146				
FISCAL AGENT FEES	0				
DEBT ISSUANCE COSTS	0				
Total Individual Bond Payments	325,708	0	0	0	0
Reserve	0	0	0	0	0
<b>Total Individual Financing Debt Service</b>	<b>325,708</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**A. ANNUAL DEBT SERVICE REQUIREMENTS**

	Common Facilities	Watershed Plan Restoration	Water Conservation	Storage Facilities	Sonoma Pipeline Facilities
<b>SRF LOAN</b>	<b>675439</b>				
PRINCIPAL	690,937			N.A	N.A
INTEREST	349,296			N.A	N.A
USE OF SRF LOAN FUND BALANCE - 675439					
Reserve Requirement	156,035				
<b>Total SRF Debt Service</b>	<b>1,196,268</b>				
<b>SRF LOAN RESERVE</b>	<b>675447</b>				
RESERVE				N.A	N.A
<b>Total SRF Debt Service</b>	<b>1,196,268</b>				
<b>TOTAL DEBT SERVICE</b>	<b>\$2,604,718</b>	<b>\$0</b>	<b>\$0</b>	<b>\$900,703</b>	<b>\$262,316</b>
LESS REV. FROM N. MARIN REV. BOND CHARGES	325,592				
<b>REMAINING REVENUE REQUIREMENT</b>	<b>\$2,279,125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$900,703</b>	<b>\$262,316</b>

**B. CALCULATIONS OF WATER RATES FOR FY 14-15**

	Common Facilities Debt Service Charge	Watershed Plan Restoration Debt Service Charge	Water Conservation Debt Service Charge	Storage Facilities Revenue Bonds Charge	Sonoma Pipeline Facilities Revenue Bonds Charge
REVENUE REQUIREMENT	\$2,279,125.10	\$0	\$0	\$900,703	\$262,316
APPLICABLE BASE WATER DELIVERIES IN A.F.	34,232.36	55,571.8	55,571.8	34,232.36	4,193.1
<b>CHARGES PER ACRE-FEET</b>	<b>\$66.58</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$26.31</b>	<b>\$62.56</b>

**C. CALCULATIONS OF NORTH MARIN REVENUE BONDS CHARGE**

REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE (Remaining Facilities per RA 4.3a2)	2,368,726
N. MARIN'S SHARE (REV. REQMT. FOR COMMON FAC. DEBT SERVICE X (11.2/90.4))	293,470
<b>ESTIMATED WATER DELIVERIES TO NORTH MARIN (IN A.F.)</b>	<b>6,401</b>
<b>NORTH MARIN REVENUE BONDS CHARGE</b>	<b>45.85</b>

REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE (Additional Facilities per RA 4.3b9)	235,992
N. MARIN'S SHARE (REV. REQMT. FOR COMMON FAC. DEBT SERVICE X (19.9/146.2))	32,122
<b>ESTIMATED WATER DELIVERIES TO NORTH MARIN (IN A.F.)</b>	<b>6,401</b>
<b>NORTH MARIN REVENUE BONDS CHARGE</b>	<b>5.02</b>

<u>Common Facilities</u>			
Debt Service RA 4.3a2 (remaining facilities)	2,368,726		
N. Marin's Share (11.2/90.4)	293,470	Total Revenue Required	\$2,604,718
Estimated Water Deliveries to N. Marin	6,400.8	Debt service \$6.4M loan to Common	(235,992)
Applicable portion of the N. Marin R. Bonds Charge	\$45.85	Revenue base for NMWD	\$2,368,726
Debt Service RA 4.3b9 (additional facilities)	235,992	Per Agreement (Steve Shupe and Chris DeGabrielle - 3/2/12)	
N. Marin's Share (19.9/146.2)	32,122		
Estimated Water Deliveries to N. Marin	6,401	Update formula for the lesser of three years or 12 months average deliver	
Applicable portion of the N. Marin R. Bonds Charge	\$ 5.02		

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Common Facilities Revenue Bonds - 2012 A

Section/Index No: 675454

Subsubject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEG. FUND BALANCE</b>	<b>\$367,559</b>	<b>\$171,492</b>		<b>\$4,952</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	2,434	1,950	1,950	300	(1,650)	(84.62%)
SUBTOTAL	2,483	1,950	1,950	300	(1,650)	(84.62%)
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	550,820	433,246	433,246	444,963	11,717	2.70%
SUBTOTAL	550,820	433,246	433,246	444,963	11,717	2.70%
<b>TOTAL REVENUES</b>	<b>553,303</b>	<b>435,196</b>	<b>435,196</b>	<b>445,263</b>	<b>10,067</b>	<b>2.31%</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
6635 Fiscal Agent Fees	362	2,500	2,500	2,500	0	0.00%
6640 Debt Insurance Costs	8,830	8,831	0	8,831	8,831	N/A
SUBTOTAL	9,193	11,331	2,500	11,331	8,831	353.24%
<b><u>OTHER CHARGES</u></b>						
7920 Interest	166,110	170,021	170,021	169,205	(816)	(0.48%)
7922 Premium Call Bonds	(14,432)	0	0	0	0	N/A
SUBTOTAL	151,678	170,021	170,021	169,205	(816)	(0.48%)
<b><u>OTHER FINANCING USES</u></b>						
8625 OT - W/in Special Dist	400,000	225,000	470,000	0	(470,000)	(100.00%)
SUBTOTAL	400,000	225,000	470,000	0	(470,000)	(100.00%)
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
9200 Ent - Principal	204,215	204,215	204,215	206,388	2,173	1.06%
9209 Ent - Principal Clearing	(204,215)	(204,215)	(204,215)	(206,388)	(2,173)	1.06%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>560,870</b>	<b>406,352</b>	<b>642,521</b>	<b>180,536</b>	<b>(461,985)</b>	<b>(71.90%)</b>
Proceeds from issuance	5,509,158					
2003A Bond Redemption	(5,334,446)					
2003A Deferred amount of refun	(155,738)					
Reclass of good faith on refundi	108,625					
Debt Issuance Costs	(176,609)					
Restricted cash with trustee (res	62,541					
Amortization of bond premium	(14,432)					
Amortization of deferred amount	7,787					
Amort. of Bond Issuance Costs	8,830	8,831		8,831		
Principal Payment	(204,215)	(204,215)		(206,388)		
<b>ENDING FUND BALANCE</b>	<b>\$171,492</b>	<b>\$4,952</b>		<b>\$72,122</b>		



**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Common Facilities Revenue Bonds 2006

Section/Index No: 675496

Subsubject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEG. FUND BALANCE</b>	<b>\$236,562</b>	<b>\$238,110</b>		<b>\$6,174</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	1,922	975	975	180	(795)	(81.54%)
1701 Interest Earned	35	0	0	0	0	N/A
SUBTOTAL	1,957	975	975	180	(795)	(81.54%)
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	401,774	397,308	397,308	401,787	4,479	1.13%
SUBTOTAL	401,774	397,308	397,308	401,787	4,479	1.13%
<b>TOTAL REVENUES</b>	<b>403,731</b>	<b>398,283</b>	<b>398,283</b>	<b>401,967</b>	<b>3,684</b>	<b>0.92%</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
6635 Fiscal Agent Fees	1,164	2,500	2,500	2,500	0	0.00%
6640 Debt Insurance Costs	4,085	4,085	0	4,085	4,085	N/A
SUBTOTAL	5,249	6,585	2,500	6,585	4,085	163.40%
<b><u>OTHER CHARGES</u></b>						
7920 Interest	225,067	220,352	220,352	215,446	(4,906)	(2.23%)
7922 Premium-Call Bonds	(1,984)	0	0	0	0	N/A
SUBTOTAL	223,083	220,352	220,352	215,446	(4,906)	(2.23%)
<b><u>OTHER FINANCING USES</u></b>						
8625 OT - W/in Special Dist	58,036	530,000	310,000	0	(310,000)	(100.00%)
SUBTOTAL	58,036	530,000	310,000	0	(310,000)	(100.00%)
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
9200 Ent - Principal	117,916	122,633	122,633	127,349	4,716	3.85%
9209 Ent - Principal Clearing	(117,916)	(122,633)	(122,633)	(127,349)	(4,716)	3.85%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>286,368</b>	<b>756,937</b>	<b>532,852</b>	<b>222,031</b>	<b>(310,821)</b>	<b>(58.33%)</b>
Amort of Bond Premium	(1,984)	0		0		
Amort. of Bond Issuance Costs	4,085	4,085		4,085		
Principal Payment	(117,916)	122,633		(127,349)		
<b>ENDING FUND BALANCE</b>	<b>\$238,110</b>	<b>\$6,174</b>		<b>\$62,846</b>		

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Sonoma Aqueduct Revenue Bonds

Section/Index No: 675470

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$466,504</b>	<b>\$530,927</b>		<b>\$767</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	3,924	913	1,625	1,200	(425)	(26.15%)
1701 Interest Earned	38	0	0	0	0	N/A
SUBTOTAL	3,961	913	1,625	1,200	(425)	(26.15%)
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	323,784	306,243	255,665	262,316	6,651	2.60%
SUBTOTAL	323,784	306,243	255,665	262,316	6,651	2.60%
<b>TOTAL REVENUES</b>	<b>327,745</b>	<b>307,156</b>	<b>257,290</b>	<b>263,516</b>	<b>6,226</b>	<b>2.42%</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
6635 Fiscal Agent Fees	269	2,500	2,500	2,500	0	0.00%
6640 Debt Insurance Costs	5,186	5,187	0	5,187	5,187	N/A
SUBTOTAL	5,455	7,687	2,500	7,687	5,187	207.48%
<b><u>OTHER CHARGES</u></b>						
7920 Interest	97,574	99,873	99,873	99,193	(680)	(0.68%)
7922 Premium Call Bonds	(8,477)	0	0	0	0	N/A
SUBTOTAL	89,097	99,873	99,873	99,193	(680)	(0.68%)
<b><u>OTHER FINANCING USES</u></b>						
8625 OT - W/in Special Dist	58,049	615,000	200,000	41,000	(159,000)	(79.50%)
SUBTOTAL	58,049	615,000	200,000	41,000	(159,000)	(79.50%)
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
9200 Ent - Principal	119,944	119,944	119,944	121,221	1,277	1.06%
9209 Ent - Principal Clearing	(119,944)	(119,944)	(119,944)	(121,221)	(1,277)	1.06%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>152,602</b>	<b>722,560</b>	<b>302,373</b>	<b>147,880</b>	<b>(154,493)</b>	<b>(51.09%)</b>
Proceeds from issuance	3,235,758					
2003A Bond Redemption	(3,132,928)					
2003A Deferred amount of refunding	(91,686)					
Reclass of good faith on refunding t	63,800					
Debt Issuance Costs	(103,730)					
Restricted cash with trustee (reserv	36,716					
Amortization of Premium bond disc	(8,477)					
Amortization of deferred amount of i	4,584					
Amort. of Bond Issuance Costs	5,186	5,187		5,187		
Principal Payments on Bonds	(119,944)	(119,944)		(121,221)		
<b>ENDING FUND BALANCE</b>	<b>\$530,927</b>	<b>\$767</b>		<b>\$369</b>		

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Storage Facilities Revenue Bond - 2012A

Section/Index No:

675462

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$363,409</b>	<b>\$273,193</b>		<b>\$4,152</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	2,658	500	650	90	(560)	(86.15%)
1701 Interest Earned	4	0	0	0	0	N/A
SUBTOTAL	2,663	500	650	90	(560)	(86.15%)
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	393,731	310,186	310,186	318,555	8,369	2.70%
SUBTOTAL	393,731	310,186	310,186	318,555	8,369	2.70%
<b>TOTAL REVENUES</b>	<b>396,394</b>	<b>310,686</b>	<b>310,836</b>	<b>318,645</b>	<b>7,809</b>	<b>2.51%</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
6635 Fiscal Agent Fees	296	2,500	2,500	2,500	0	0.00%
6640 Debt Insurance Costs	6,306	6,307	0	6,307	6,307	N/A
SUBTOTAL	6,603	8,807	2,500	8,807	6,307	252.28%
<b><u>OTHER CHARGES</u></b>						
7920 Interest	118,593	121,386	121,386	120,804	(582)	(0.48%)
7922 Premium Call Bonds	(10,307)	0	0	0	0	N/A
SUBTOTAL	108,286	121,386	121,386	120,804	(582)	(0.48%)
<b><u>OTHER FINANCING USES</u></b>						
8625 OT - W/in Special Dist	237,125	310,000	290,000	50,000	(240,000)	(82.76%)
SUBTOTAL	237,125	310,000	290,000	50,000	(240,000)	(82.76%)
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
9200 Ent - Principal	145,841	145,841	145,841	147,393	1,552	1.06%
9209 Ent - Principal Clearing	(145,841)	(145,841)	(145,841)	(147,393)	(1,552)	1.06%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>352,014</b>	<b>440,193</b>	<b>413,886</b>	<b>179,611</b>	<b>(234,275)</b>	<b>(56.60%)</b>
Increase in Bonds Payable	0	0		0		
Proceeds from issuance	3,934,388					
2003A Bond Redemption	(3,810,319)					
2003A Deferred amount of refunc	(110,519)					
Reclass of good faith on refundin	77,575					
Debt Issuance Costs	(126,126)					
Restricted cash with trustee (rese	44,721					
Amortization of Premium bond di	(10,307)					
Amortization of deferred amount	5,526					
Amort. of Bond Issuance Costs	6,306	6,307		6,307		
Principal Payment	(145,841)	(145,841)		(147,393)		
<b>ENDING FUND BALANCE</b>	<b>\$273,193</b>	<b>\$4,152</b>		<b>\$2,099</b>		

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Storage Facilities Revenue Bonds 2006

Section/Index No: 675488

Subobject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$535,892</b>	<b>\$411,211</b>		<b>\$711</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	3,903	1,495	1,495	180	(1,315)	(87.96%)
SUBTOTAL	3,943	1,495	1,495	180	(1,315)	(87.96%)
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	449,964	444,703	444,703	449,721	5,018	1.13%
SUBTOTAL	449,964	444,703	444,703	449,721	5,018	1.13%
<b>TOTAL REVENUES</b>	<b>453,907</b>	<b>446,198</b>	<b>446,198</b>	<b>449,901</b>	<b>3,703</b>	<b>0.83%</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
6635 Fiscal Agent Fees	1,278	2,500	2,500	2,500	0	0.00%
6640 Debt Insurance Costs	4,575	4,576	0	4,576	4,576	N/A
SUBTOTAL	5,854	7,076	2,500	7,076	4,576	183.04%
<b><u>OTHER CHARGES</u></b>						
7920 Interest	252,112	246,830	246,830	241,334	(5,496)	(2.23%)
7922 Premium-Call Bonds	(2,223)	0	0	0	0	N/A
SUBTOTAL	249,889	246,830	246,830	241,334	(5,496)	(2.23%)
<b><u>OTHER FINANCING USES</u></b>						
8625 OT - W/in Special Dist	193,112	470,000	300,000	0	(300,000)	(100.00%)
SUBTOTAL	193,112	470,000	300,000	0	(300,000)	(100.00%)
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
9200 Ent - Principal	132,084	137,368	137,368	142,652	5,284	3.85%
9209 Ent - Principal Clearing	(132,084)	(137,368)	(137,368)	(142,652)	(5,284)	3.85%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>448,855</b>	<b>723,906</b>	<b>549,330</b>	<b>248,410</b>	<b>(300,920)</b>	<b>(54.78%)</b>
Amort. of Bond Issuance Costs	2,353	4,576		4,576		
Principal Payment	(132,085)	(137,368)		(142,652)		
<b>ENDING FUND BALANCE</b>	<b>\$411,211</b>	<b>\$711</b>		<b>\$64,127</b>		

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: State Loan Debt Service Fund

Section/Index No: 675439

Subsubject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$392,782</b>	<b>\$538,089</b>		<b>\$889,061</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
1700 Interest on Pooled Cash	8,176	4,000	4,550	1,500	(3,050)	(67.03%)
1701 Interest Earned	0	0	0	0	0	N/A
SUBTOTAL	8,176	4,000	4,550	1,500	(3,050)	(67.03%)
<b><u>OTHER FINANCING SOURCES</u></b>						
4625 OT - W/in Special Dist	1,196,268	1,196,268	1,196,268	1,196,268	(0)	(0.00%)
SUBTOTAL	1,196,268	1,196,268	1,196,268	1,196,268	(0)	(0.00%)
<b>TOTAL REVENUES</b>	<b>1,204,444</b>	<b>1,200,268</b>	<b>1,200,818</b>	<b>1,197,768</b>	<b>(3,050)</b>	<b>(0.25%)</b>
<b>EXPENDITURES</b>						
<b><u>OTHER CHARGES</u></b>						
7930 Interest - LT Debt	368,199	349,296	349,296	349,296	0	0.00%
SUBTOTAL	368,199	349,296	349,296	349,296	0	0.00%
<b><u>OTHER FINANCING USES</u></b>						
8625 OT - W/in Special Dist	0	500,000	0	0	0	N/A
SUBTOTAL	0	500,000	0	0	0	N/A
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
9200 Ent - Principal	0	0	690,937	690,937	0	0.00%
9209 Ent - Principal Clearing	0	0	(690,937)	(690,937)	0	0.00%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>368,199</b>	<b>849,296</b>	<b>349,296</b>	<b>349,296</b>	<b>0</b>	<b>0.00%</b>
Principal Payment	(672,033)	0		(690,937)		
Change in Due to Other Gov	(18,904)					
<b>ENDING FUND BALANCE</b>	<b>\$538,089</b>	<b>\$889,061</b>		<b>\$1,046,596</b>		

**FY 2014-15 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: State Loan Reserve Fund

Section/Index No: 675447

Subsubject Title	Actual 2012-13	Estimated 2013-14	Adopted 2013-14	Requested 2014-15	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

1700 Interest on Pooled Cash	8,917	3,000	6,500	0	(6,500)	(100.00%)
1701 Interest Earned	0	0	0	0	0	N/A
SUBTOTAL	8,917	3,000	6,500	0	(6,500)	(100.00%)

**OTHER FINANCING SOURCES**

4625 OT - W/in Special Dist	119,627	0	0	0	0	N/A
SUBTOTAL	119,627	0	0	0	0	N/A
<b>TOTAL REVENUES</b>	<b>128,544</b>	<b>3,000</b>	<b>6,500</b>	<b>0</b>	<b>(6,500)</b>	<b>(100.00%)</b>

**EXPENDITURES**

**OTHER FINANCING USES**

8625 OT - W/in Special Dist	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
Reserve Unavail. for Budgeting	(128,544)	(3,000)		0		

<b>ENDING FUND BALANCE</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>		
----------------------------	------------	------------	--	------------	--	--

**Fund Balance Components at  
Beginning of FY**

Cash

<b>\$41,091</b>	<b>\$41,456</b>
\$1,111,730	\$1,240,274

**FY 2014-15 BUDGET**  
**Water Transmission System Operating Transfers**

<b>Fund</b>	<b>Index</b>	<b>OT Out (8625)</b>	<b>To</b>	<b>OT In (4625)</b>	<b>Beginning Fund Balance</b>	<b>Ending Fund Balance</b>	<b>Increase (Decrease)</b>
Santa Rosa Aq. Capital Fund	675207	15,000	Pipeline Facilities	433,516	\$ 1,775,468	\$ 2,337,211	\$ 561,743
Petaluma Aq. Capital Fund	675215	15,000	Pipeline Facilities	453,155	\$ 2,082,574	\$ 2,771,721	\$ 689,147
Sonoma Aq. Capital Fund	675231	80,000		81,765	\$ 650	\$ 3,615	\$ 2,965
Sonoma Rev Bond 2012 Fund	675470	41,000	Pipeline Facilities	262,316	\$ 767	\$ 370	\$ (398)
Storage Rev Bond 2012 Fund	675462	50,000	Storage Facilities	318,555	\$ 4,152	\$ 2,100	\$ (2,052)
Storage Rev Bond 2006 Fund	675488	0	Storage Facilities	449,721	\$ 713	\$ 64,128	\$ 63,415
Common Rev Bond 2012 Fund	675454	0	Common Facilities	444,963	\$ 4,952	\$ 72,122	\$ 67,170
Common Rev Bond 2006 Fund	675496	0	Common Facilities	401,787	\$ 6,174	\$ 62,846	\$ 56,672
State Loan Debt Service	675439	0		1,196,268	\$ 889,063	\$ 1,046,598	\$ 157,535
State Loan Reserve	675447	0		0	\$ -	\$ -	\$ -
Capital Lease Financing	675371	0		0	\$ 32	\$ 32	\$ -
Agency Fund (Discretionary)	675108	2,230,819	Common Facilities	0	\$ 6,684,780	\$ 7,193,776	\$ 508,996
Agency Fund (Charges)	675108	11,124,573		0	\$ -	\$ -	\$ -
Pipeline Facilities	675413			151,000	\$ 132,761	\$ 3,851	\$ (128,910)
Storage Facilities	675405			50,000	\$ 734,436	\$ 363,119	\$ (371,317)
Common Facilities	675421	0		2,556,527	\$ 3,317,789	\$ 249,505	\$ (3,068,284)
North Marin	675512	0		0	\$ 12,922	\$ 13,023	\$ 101
Water Management Planning	675710			44,500	\$ 364,557	\$ 164,252	\$ (200,304)
Watershed Planning./Restoration	675728			3,634,500	\$ 5,264,390	\$ 5,200,225	\$ (64,165)
Recycled Water & Local Supply	675736			1,267,819	\$ 812,860	\$ 494,860	\$ (318,000)
Water Conservation	675744			1,810,000	\$ 103,988	\$ 104,588	\$ 600
<b>Total</b>		<b>13,556,392</b>		<b>13,556,392</b>	<b>22,193,029</b>	<b>20,147,941</b>	<b>(2,045,087)</b>

Common Facilities OT - in 4625 From

Water Transmission (discretionary)	2,230,819
Water Transmission (Charges)	325,708
North Marin	-
2012 Bond Fund	-
2006 Bond Fund	-
	<u>2,556,527</u>

Agency Fund (Charges) OT - Out

Santa Rosa Aq. Capital Fund	433,516.16
Petaluma Aq. Capital Fund	453,154.79
Sonoma Aq. Capital Fund	81,765.05
Sonoma Rev Bond 2012 Fund	262,316.15
Storage Rev Bond 2012 Fund	318,554.60
Storage Rev Bond 2006 Fund	449,721.30
Common Rev Bond 2012 Fund	444,962.60
Common Rev Bond 2006 Fund	401,787.00
State Loan Debt Service	1,196,267.95
State Loan Reserve	0.00
Common Facilities	325,708.00
Water Management Planning	44,500
Watershed Planning./Restoration	3,634,500
Recycled Water & Local Supply	1,267,819
Water Conservation	<u>1,810,000</u>
	<u>11,124,573</u>

16



**DISBURSEMENTS - DATED FEBRUARY 6, 2014**

Date Prepared: 2/4/14

The following demands made against the District are listed for approval and authorization for payment in accordance with Section 31302 of the California Water Code, being a part of the California Water District Law:


<u>Seq</u>	<u>Payable To</u>	<u>For</u>	<u>Amount</u>
46604	Marin County Clerk	Filing Fee for Notice of Exemption for Interconnection Agreement between NMWD & MMWD	\$50.00
1	Athens Administrators	February Workers' Comp Insurance	1,000.00
2	AT&T	January Internet Service @ PRTP	70.00
3	AT&T	Telephone Charges: Voice Lines	147.52
4	Backflow Distributors	Backflow Repair Parts	85.18
5	Baker, Jack	January Director's Fee	600.00
6	Bastogne	Refund Credit on Closed Account	114.49
7	Bedilion, Stephen	Novato "Washer Rebate" Program	50.00
8	Bold & Polisner	December Legal Services: Dutra Project (\$37), Electronic Bid Proposal (\$185), Fluoridation (\$18), MMWD Intertie Agreement (\$371), Reg 6 (\$734), RW South Phase 1B Claim (\$166), STP Transmission Main (\$241), West Marin Water Rights (\$111) & AEEP Caltrans Reimb B3 (\$21)	1,884.00
9	Business Card	Long Sleeve Orange T-shirts (4) (\$62), SSL Certification for Internal Web Server (4) (\$245), Registration for CA/NV AWWA Class (Baccei) (\$229), Minute Book (\$288) (Young), AWWA Law Symposium on 2/8/14 (McIntyre) (\$40), Business Lunches (3) (\$102) & Novato's Birthday Bash on 1/24/14 (\$100) (DeGabriele)	1,066.32
10	Centrisys	Check Valve Parts (STP)	143.25
11	Covello Group	Recycled Water Pipeline Expansion to Novato North Service Area (Balance Remaining on Contract \$4,173)	10,837.56
12	Demers, Janet	Novato "Toilet Rebate" Program	100.00


Seq	Payable To	For	Amount
13	DLT Solutions	AutoCad Subscription Renewal (12/21/13-12/20/14) (Budget \$2,750)	2,750.03
14	Fisher Scientific	Reagent & Pipet Tips (1,000) (\$54) (Lab)	97.40
15	Wilkinson Foster, Roxane	Novato "Toilet Rebate" Program	100.00
16	Fraites, Rick	January Director's Fee (\$600), North Bay Watershed Association Meeting on 1/3/14 (\$200) & Public Policy Facilitating Meeting on 1/17/14 (\$200)	1,000.00
17	Ghilotti Bros	Refund Security Deposit on Hydrant Meter Less Final Bill	641.95
18	Glendening, D. L.	Novato "Toilet Rebate" Program	100.00
19	Golden Gate Petroleum	Gasoline (\$3.51/gal) & Diesel (\$3.77/gal)	2,364.08
20	Grainger	HVAC Filters (12), Plastic Pipe Cutters (2) (\$236) & Intrusion Switch & Float for Overflow Alarm (\$101)	366.50
21	Hertz Equipment Rental	Dump Truck Rental (12/13/13-1/12/14) (Balance Remaining on Contract \$7,576)	1,362.50
22	Inspection Services & Fire	Annual Fire Service Testing (227 Tests)	21,565.00
23	Johnson, Bernard & Sandra	Novato "Washer Rebate" Program	50.00
24	Kaiser Foundation Health Plan	DMV/DOT Physical (Castellucci)	70.00
25	Koehler, Stephanie	Novato "Washer Rebate" Program	50.00
26		Cafeteria Plan: Childcare Reimbursement	416.66
27	Madruga Iron Works	Vault Lid	2,059.86
28	Maltby Electric	2" Elbows (4)	74.16
29	Marin County Registrar of Voters	Charge for November 5, 2013 General Election (Budget \$73,000)	250.00
30	Mason, Karen	Novato "Toilet Rebate" Program	100.00
31	McLellan, WK	Misc Paving (Novato Area) (197 S.F.)	1,406.75
32	McCloskey, Joseph	Novato "Washer Rebate" Program	50.00

Seq	Payable To	For	Amount
33	McDowell, Maye	Novato "Toilet Rebate" Program	100.00
34	McMaster-Carr Supply	Stainless Steel Nuts & Bolts	65.72
35		Wage Assignment Order	142.00
36	Novato Builders Supply	Turnbuckles (3), Wire Rope (18), Quart Container, Mixer Tool, Lumber for Trailer Deck ('07 Trailmax) (\$71), Mortar (80 lb bag), Bolts & Nuts	123.50
37	Novato Unified School District	Clean Exhaust Filter ('99 F350)	250.00
38	Novato Police Dept	Telephone Answering Service (Nov-Jan)	600.00
39	Oasis Pool & Spa	Refund Security Deposit on Hydrant Meter Less Final Bill	713.12
40	Office Depot	Quarterly Office Supply Order: Daily Appointment Refill (3), Wall Calendar, Pens (304) (\$270), Note Pads, Copy Paper (10) (\$53), Typewriter Ribbon (4), Sealing Tape, Calculator Tape (72), Post-it Notes (60), Retention Jackets (248) (\$237), Waste Basket, & Desk Pad Calendar	1,043.16
41	Pace Supply	Brass Bushings (28) (\$82), Service Saddles (12) (\$538), Gaskets (2) (\$107), Hydrant Extensions (4) (\$241) & Splices (10) (\$176)	1,145.11
42	PDM Steel Service Centers	Steel Tubing & Angle Iron for Welding Shop	464.80
43	Petterle, Stephen	January Director's Fee (\$600) & Public Policy Facilitating Committee Meeting on 1/17/14 (\$200)	800.00
44	Phase 3 Communications	Refund Security Deposit on Hydrant Meter Less Final Bill	980.57
45	Phelan, Martin	Novato "Washer Rebate" Program	50.00
46		Cafeteria Plan: Childcare Reimbursement	220.00
47	Rodoni, Dennis	January Director's Fee (\$600) & TAC Meeting in Santa Rosa on 1/6/14 (\$200)	800.00
48	Ryan, Stephen	West Marin "Washer Rebate" Program	50.00
49	Schoonover, John	Director's Fee Less Deferred	550.00

Seq	Payable To	For	Amount
50	Schwaab	"OK to Pay" Stamp (Filippi)	59.48
51	Shoemaker, Margerie	Novato "Toilet Rebate" Program	200.00
52	Sjoblom, Jeff	Exp Reimb: Safety Boots	200.00
53	Soligent	Battery Enclosure for Reservoir Hill Tank Solar Power System	394.42
54	Van Horn, Jack	Novato "Washer Rebate" Program	50.00
55	Verizon California	Telephone Charges: Leased Lines	90.32
56	Verizon Wireless	December CIMIS Station Data Transfer Fee	25.15
57	White Cap Construction	14" Diamond Blade (\$197) & 8", 12" Reciprocating Blades (2) (\$136)	333.48
58	Wright, James & Rebecca	Novato "Washer Rebate" Program	50.00
		<b>TOTAL DISBURSEMENTS</b>	<b><u>\$60,524.04</u></b>

The foregoing payroll and accounts payable vouchers totaling \$60,524.04 are hereby approved and authorized for payment.

 \_\_\_\_\_  
 Auditor-Controller Date 2/3/14

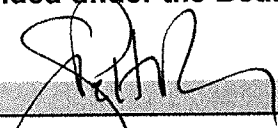
 \_\_\_\_\_  
 General Manager Date 2/3/2014

# NORTH MARIN WATER DISTRICT CHECK REQUEST





<b>PAYEE STEPHEN PETERLE</b>	
1755 Novato Blvd, #N 21	<b>DATE</b> <u>1/21/14</u> (TODAY'S DATE)
Novato, CA 94947	<b>AMOUNT:</b> \$200.00

I attended the PUBLIC POLICY FACILITATING COM. on 1/17/14  
(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

and wish to be compensated as provided under the Board Compensation Policy.

  
 \_\_\_\_\_  
 SIGNATURE

**CHARGE TO: 56001-01-11**

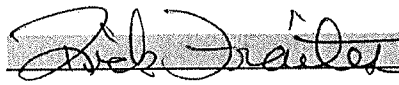
<p><b><u>DISPOSITION OF CHECK</u></b></p> <p><input type="checkbox"/> MAIL TO PAYEE</p> <p><input type="checkbox"/> HOLD FOR _____</p> <p><input checked="" type="checkbox"/> OTHER: <u>ACH PAYMENT</u></p>  <p>        _____        APPROVED TO PAY BY</p>  <p><small>T:\FORMS\CHECK REQUEST FOR BOARD.DOC REV. 0213</small></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><small>Prepared By</small></td> <td style="width: 20%;"><small>Accounting Review</small></td> <td style="width: 20%;"><small>POST DATE</small></td> <td style="width: 20%;"><small>Vendor No.</small></td> <td rowspan="2" style="width: 20%; text-align: center;"></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td>PETT02</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"><small>Invoice Number (CK Req ID)</small></th> <th style="width: 20%;"><small>Invoice (CK Req) Date</small></th> <th style="width: 40%;"><small>Invoice (CK Req) Amount</small></th> </tr> </thead> <tbody> <tr> <td>CKRQ</td> <td> </td> <td style="text-align: right;">\$200.00</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;"><small>NMWD Comment</small></td> </tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"><small>Job Number</small></th> <th style="width: 30%;"><small>GL Account</small></th> <th style="width: 30%;"><small>Amount</small></th> </tr> </thead> <tbody> <tr> <td> </td> <td style="text-align: center;">56001-01-11</td> <td style="text-align: right;">\$200.00</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr> <td colspan="2" style="text-align: right;"><b>TOTAL</b></td> <td style="text-align: right;"><b>\$200.00</b></td> </tr> </tbody> </table>	<small>Prepared By</small>	<small>Accounting Review</small>	<small>POST DATE</small>	<small>Vendor No.</small>					PETT02	<small>Invoice Number (CK Req ID)</small>	<small>Invoice (CK Req) Date</small>	<small>Invoice (CK Req) Amount</small>	CKRQ		\$200.00	<small>NMWD Comment</small>					<small>Job Number</small>	<small>GL Account</small>	<small>Amount</small>		56001-01-11	\$200.00										<b>TOTAL</b>		<b>\$200.00</b>
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	56001-01-11	\$200.00																																					
<b>TOTAL</b>		<b>\$200.00</b>																																					

# NORTH MARIN WATER DISTRICT CHECK REQUEST


PAYEE RICK FRAITES	DATE <u>1/17/14</u> <small>(TODAY'S DATE)</small>
50 Forrest Rd	AMOUNT: <del>\$100.00</del> <u>200</u>
Novato, CA 94947	

I attended the Russian River Instream Flow/Restoration 15 Year Public Meeting on 01/17/14  
(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

and wish to be compensated as provided under the Board Compensation Policy.

  
 SIGNATURE

CHARGE TO: 56001-01-11


<b>DISPOSITION OF CHECK</b>  <input checked="" type="checkbox"/> MAIL TO PAYEE <input type="checkbox"/> HOLD FOR _____ <input type="checkbox"/> OTHER _____   <hr/> APPROVED TO PAY BY _____   <small>T:\FORMS\CHECK REQUEST FOR BOARD.DOC REV. 0213</small>	Prepared By	Accounting Review	POST DATE	Vendor No.	 <small>NORTH MARIN WATER DISTRICT</small>
				FRAI02	
	Invoice Number (CK Req ID)	Invoice (CK Req) Date	Invoice (CK Req) Amount		
	CKRQ		<del>\$100.00</del> <u>200</u>		
NMWD Comment _____ _____ _____ _____					
Job Number	GL Account	Amount			
	56001-01-11	<del>\$100.00</del> <u>200</u>			
<b>TOTAL</b>					<del>\$100.00</del> <u>200</u>

# NORTH MARIN WATER DISTRICT CHECK REQUEST




PAYEE RICK FRAITES	DATE <u>1/17/14</u> <small>(TODAY'S DATE)</small>
50 Forrest Rd	AMOUNT: \$100.00
Novato, CA 94947	

*Bay Watershed Association (RAR)*  
 I attended the North Marin Water District on 1/13/14  
(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

and wish to be compensated as provided under the Board Compensation Policy.

  
 SIGNATURE

CHARGE TO: 56001-01-11

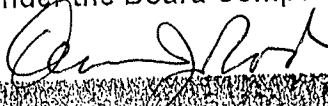
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Prepared By	Accounting Review	POST DATE	Vendor No.	 <small>NORTH MARIN WATER DISTRICT</small>																														
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	56001-01-11	\$100.00																																
<b>TOTAL</b>		<b>\$100.00</b>																																

# NORTH MARIN WATER DISTRICT CHECK REQUEST

PAYEE DENNIS RODONI	DATE <u>11/14/13</u>
P.O. Box 872	(TODAY'S DATE)
Pt. Reyes Station, CA 94956	AMOUNT: \$100.00

I attended the TAC meeting 1st Santa Rosa on 1/6/14  
(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

and wish to be compensated as provided under the Board Compensation Policy.

  
 \_\_\_\_\_  
 SIGNATURE

CHARGE TO: 56001-01-11

**DISPOSITION OF CHECK**

- MAIL TO PAYEE
- HOLD FOR \_\_\_\_\_
- OTHER:
- ACH PAYMENT

APPROVED TO PAY BY \_\_\_\_\_

Prepared By	Accounting Review	POST DATE	Vendor No.
			RODO01



Invoice Number (CK Req ID)	Invoice (CK Req) Date	Invoice (CK Req) Amount
CKRQ		\$100.00 <i>200</i>

NMWD Comment

Job Number	GL Account	Amount
	56001-01-11	\$100.00 <i>200</i>
<b>TOTAL</b>		<b>\$100.00</b> <i>200</i>

T:\FORMS\CHECK REQUEST FOR BOARD.DOC  
REV. 0213



## DISBURSEMENTS - DATED FEBRUARY 13, 2014

Date Prepared: 2/10/14

The following demands made against the District are listed for approval and authorization for payment in accordance with Section 31302 of the California Water Code, being a part of the California Water District Law:

Seq	Payable To	For	Amount
P/R*	Employees	Net Payroll P/E 1/31/14	\$116,515.09
EFT*	US Bank	Federal & FICA Taxes P/E 1/31/14	50,896.45
EFT*	State of California	State Taxes & SDI P/E 1/31/14	9,012.93
EFT*	US Bank	January Credit Card Fees	2,005.05
1	101 Office Products	Replacememt Desks & Hutches (2) (\$3,317) (Manzoni & Pecunia) & Quarterly Toner Supply (\$1,395)	4,711.78
2	Able Tire & Brake	Tires (4) ('07 Trailmax Trailer-\$819 & '08 F250- \$366)	1,184.80
3	Alpha Analytical Labs	Lab Testing (West Marin)	325.00
4	Althuizen, J P	Novato "Toilet Rebate" Program	100.00
5	AT&T	Telephone Charges: Leased & Voice Lines	781.46
6	AWWA CA-NV SEC	Registration - Spring 2014 Conference in Anaheim (3/23-3/27/14) (McIntyre)	465.00
7	Bentley, David L.	Exp Reimb: January Mileage & Replacement Mouse Pad	44.40
8	Boone, Dolores	Novato "Toilet Rebate" Program	100.00
9	Building Supply Center	2" Conduit, Junction Box Covers (4) & Copperwire (20) (\$28)	52.02
10	CalPERS Retirement System	Pension Contribution PPE 1/31/14	48,585.58
11	Christie, Stephen	Novato "Toilet Rebate" Program	100.00
12		Vision Reimbursement	163.50
13	Costco Wholesale	Sugar, Coffee (8 lbs.) (\$44) & Coffeemate	70.81
14	Crinnion, Dennis	Novato "Cash for Grass" Program	400.00
15	DeGabriele, Chris	Exp Reimb: January Mileage	190.40

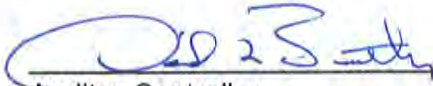
Seq	Payable To	For	Amount
16	Dell Computers	Server for MAS 90 Accounting Software (\$2,995) & Replacement PC (\$668) (Ramudo)	3,663.34
17	Emed	Poly Bags (STP)	21.29
18	Enos, Gail	Novato "Washer Rebate" Program	50.00
19	Fisher Scientific	Bromide Standard, Dust Masks (20) (\$42), Lithium, Calcium & Potassium Standards (\$68) (Lab)	121.43
20	GHD	Engineering Services: Aqueduct Relocation (Bal Remaining on Contract \$58,191)	3,042.00
21		Cafeteria Plan: Uninsured Medical Reimbursement	1,220.18
22	Grainger	Float & Intrusion Switches (18) (\$906) & 3" x 3" x 48" Angle Stock	948.71
23	Greene, Linda	Novato "Toilet Rebate" Program	300.00
24	Griffin, Robert & Gail	Novato "Cash for Grass" Program	400.00
25	Hrdlicka, Eric	Novato "Cash for Grass" Program	159.00
26	ITRON Service Center	Meter Reading Device Maintenance (3/1-12/31/14)	1,175.70
27	Jackson, David	Exp Reimb: Professional Engineer License Renewal (3/14-2/16) (Budget \$130)	116.00
28	Journey Ford/Lincoln	Motor Oil (14 qts) (\$68), Spark Plugs (8), Air Filters (2) & Oil Filters (2) ('10 F150 & '12 F250)	113.42
29	Kane, Shawn	Exp Reimb: Safety Boots	200.00
30		Cafeteria Plan: Uninsured Medical Reimbursement	56.65
31	King, David A	Novato "Washer Rebate" Program	50.00
32	Koonce, Beth	Novato "Cash for Grass" Program	203.50
33	Larsengines	Replacement Cut-Off Saw	1,044.61
34	Leale, Barbara	Novato "Washer Rebate" Program	50.00
35	Lemos, Kerry	Exp Reimb: Snack for Backflow Training	31.40

Seq	Payable To	For	Amount
36	Maltby Electric	Electrical Supplies for Generator Connections, Mounting Channel (\$55) & 3/8" Thread Stud (\$49)	148.65
37	Marin Trophies & Treasures	Generator Transfer Switch Tags (15)	122.63
38	McPhail Fuel	New Propane Tank (\$1,935), Piping & Materials (\$298) (For Back-up Generator)	2,233.50
39	Meyer, Janet	Novato "Toilet Rebate" Program	100.00
40	Morse, Therese	Novato "Washer Rebate" Program	50.00
41	Neopost Northwest	Ink Cartridge for Postage Meter	365.15
42	North Marin Auto Parts	Primer, Oil Filters (5) (\$31), Motor Oil (30 qts) (\$133), Washers, Screws, Diesel Exhaust Fluid, Paint (4-12 oz cans), Gasket Sealer, Wiper Blades (3) (\$51), Light Switch, Masking Tape, Grease Filter, Automotive Wire (100'), Wire (2-100' Roll) (\$63) (Shop), Distributor Cap, Rotor, Spark Plug Wires, Plugs (8) (\$86) ('99 Dodge Ram), Brake Drum, Shoe Kit (\$106) ('99 Dodge Ram), Automotive Wire (25') (\$170), Brake Wheel Cylinder & Brake Fluid	879.48
43	North Bay Gas	January Cylinder Rental (2)	116.50
44	NMWD Employee Assoc	Employee Dues (PPE 10/31-1/31/14)	1,590.00
45	Novato Chevrolet	Speed Sensor (\$102) ('06 Chevy Colorado) & Irrigation Lock Sensor & Installation (\$682) ('07 Chevy Colorado)	785.44
46	Office Depot	Mousepad, Wrist Rest, Stapler, Tape Dispenser, Pencil Holder, File Folders (\$77), Pens (16), Post-it Notes, Hole Punch, CD's, CD Sleeves, Dry Erase Board (\$39) (Billing), Bulletin Board, Drawer Organizers (2), Monthly Planner, Post-it Notes, File Folders (60) (\$115), 3-Hole Punch, Binders (12) (\$106) & Cover Stock (100)	562.28
47	O'Reilly Auto Parts	Car Cleaning Supplies	92.64
48	Perez, Robert	Novato "Water Smart Landscape Efficiency" Program-Residential & "Cash for Grass" Program (\$315)	342.50

Seq	Payable To	For	Amount
49	Peterson Trucks	Key Switch & Lock Set (\$147) ('07 International)	190.65
50	PG&E	Power: Bldgs/Yard (\$2,812), Rectifier/Controls (\$370), Pumping (\$17,333), Treatment (\$163) & Other (\$95)	20,773.87
51	Pini Hardware	Hardware, Mailbox (Security Apt), Bolts, Fittings, PVC Saw, Cement, Pipe, Electric Supplies (\$100), Screws, Dryer Lint Brush, Spray Paint, Trash Can & Photo Battery	211.18
52	Pollard Water	Chlorine Tablet Screen	69.57
53	Prorok, Florence	Novato "Washer Rebate" Program	50.00
54	Red Wing Shoe Store	Safety Boots (Kurfirfirst)	200.00
55	Sanz, Eloy	Novato "Toilet Rebate" Program	100.00
56	Schatz, Mark	Novato "Washer Rebate" Program	50.00
57	Scheunert, Simone	Novato "Washer Rebate" Program	50.00
58	Scott Technology Group	Quarterly Maintenance on Engineering Copier (10/16/13-1/15/14)	572.29
59	Sequoia Safety Supply	Brief Relief Urine Bags (100) (\$231) & Faceshields (10)	252.77
60	Shirrell Consulting Services	Feb Dental Insurance Admin Fee	282.50
61	Shirrell Consulting Services	Jan Dental Expense	10,783.60
62	Spinetta, Dominic	Novato "Toilet Rebate" Program	200.00
63	Strahm Communications	Printing & Processing of 2014 Spring Waterline (18,400)	3,841.79
64	Studen, Anita	Novato "Toilet Rebate" Program	200.00
65	Terracon Pipelines	Refund Security Deposit on Hydrant Meter Less Final Bill	490.84
66	Thomas Scientific	Potassium Chloride (Lab)	54.05
67	Township Building Services	House Cleaning (10/21/13) (15 Gustafson Ct)	300.00
68	Under Ground Construction	Refund Security Deposit on Hydrant Meter Less Final Bill	260.30

Seq	Payable To	For	Amount
69	United Parcel Service	Delivery Service: Sent AEEP Reaches A-D/MSN B3 Addendum, Gallagher Well Pipeline Funding Documents, Media for STP Chlorine Scrubber, Part for Chlorine Generator, RW South Phs 1B, Phs 2 Final Disbursement Request, Gas Monitor for Repair, AEEP Reaches A-3/MSN B3 Plans, Specs (\$103) & RW North SRF Performance Report	291.29
70	Van Bebber Bros	8" 'C' Channel Iron	66.24
71	Verizon California	Telephone Charges: Leased Line	800.72
72	Verizon Wireless	Cellular Charges: Data (\$117) & Airtime (\$118) (19)	235.00
73	Water Opcert School	Water Distribution Operator 2-Day Exam (Reed) (3/3-3/4/14) (D3)	200.00
<b>TOTAL DISBURSEMENTS</b>			<b><u>\$296,586.93</u></b>

The foregoing payroll and accounts payable vouchers totaling \$296,586.93 are hereby approved and authorized for payment.

 \_\_\_\_\_  
 Auditor-Controller Date 2/10/14

 \_\_\_\_\_  
 General Manager Date 2/10/2014

## MEMORANDUM

To: Board of Directors  
From: Robert Clark, Operations / Maintenance Superintendent  
Subject: 2014 Flushing Program Update  
x:\maint sup\2014\bod\2014 flushing.doc

February 14, 2014



**RECOMMENDED ACTION:** Information  
**FINANCIAL IMPACT:** None

The West Marin system was flushed during the last week of December 2013. Staff skipped the flush at the Point Reyes treatment plant since the Marin County Fire crew flowed water at the end of Commodore Webster during a training exercise in late October. One line at the end of Pine Crest Road had unusually dirty water this year.

The Novato system flushing program kicked off January 10<sup>th</sup> and was completed by the 31<sup>st</sup>. Zones 2 and 3 were the primary focus, along with the Zone 1 single-end lines this year. The program was executed through a cooperative effort between the Operations / Maintenance and Construction / Maintenance Departments. Zone 1 ends were flushed at a low velocity (100 gpm), the goal being to bring in higher chlorine residual water but not stir up sediments in the lines. All other lines were flushed with high velocity water (1,200 gpm). Measurements of the free chlorine levels in the discharge water were taken to ensure no chlorine had entered the storm drains. The water was a bit dirtier this year; however, alternating between Zone 1 and Zones 2 & 3 annually seems to be the appropriate plan for now.

The Novato flushing program used just over 3 million gallons (MG) of water with Zone 2, at 1.8 MG, Zone 3 at 0.9 MG, and Zone 1 ends at 0.3 MG, using 642 staff hours. In Point Reyes 270,000 gallons were used during the 80 hours of staff time. Also during the program, it was determined that additional maintenance work was needed with 25 blow-off repairs and 1 hydrant replacement in Novato and 3 broken blow-offs in Point Reyes.

There were two dirty water complaints reported in the field along with two calls into the office about flushing during the drought conditions. Each staff member in the field dealt with multiple consumers daily, with more than a few expressing concerns about the drought.



## MEMORANDUM

To: Board of Directors  
From: David L. Bentley, Auditor-Controller  
Subj: Service Charge Analysis  
t:\acl\word\memo\14\bimonthly service charge analysis 14.docx



February 14, 2014

### **RECOMMENDED ACTION: Information**

### **FINANCIAL IMPACT: None**

The Service Charge covers fixed costs for debt service, billing and accounting, meter reading, and a portion of the cost to maintain and replace the service line to the customer water meter. Debt service pays for infrastructure which enables water delivery on-demand 24 hours per day, 7 days per week - such as Stafford Water Treatment Plant, pump stations, storage tanks and distribution pipelines. Annually the District updates its analysis of the costs that comprise the charge, which is \$30 bimonthly for 73% of District customers who are served with a 5/8" meter.

The Novato 5/8" bimonthly service charge was increased from \$25 to \$30 last June 1. The District's bimonthly cost of a 5/8" service last fiscal year (FY13) was \$32.13, as shown on the attached analysis. Thus, the \$30 charge falls just shy of the amount required to fully recover the fixed cost associated with the Service Charge.

**North Marin Water District**  
**Novato Service Charge Analysis**  
**Annual Cost of Providing a Meter and Rendering a Bill**

2/11/14

\\nmwdsrv1\administration\excel\rate analysis\2014\novato service charge analysis.xlsx\minchg 123113

as of 12/31/13

Active Meters 12/31/13 = 20,480

	5/8-Inch Service	1-Inch Fire Sprinkler Service	1-Inch Service
<b>Capital Cost</b>			
Installation Labor & Vehicle Charges <sup>1</sup>	\$2,584.40	\$2,584.40	\$2,584.40
Backfill, Blacktop & Sand <sup>1</sup>	800.77	800.77	800.77
Copper Pipe (30') <sup>2</sup>	143.46	143.46	143.46
Water Meter	70.00	180.60	180.60
Angle Meter Stop <sup>2</sup>	56.48	56.48	56.48
Corporation Stop <sup>2</sup>	51.55	51.55	51.55
Anode (12lb)	51.49	51.49	51.49
Service Saddle (6") <sup>2</sup>	50.98	50.98	50.98
Fiberlite Meter Box Lid	27.07	48.79	48.79
Meter Box	23.56	30.82	30.82
Corporation Stop Adapter <sup>2</sup>	21.07	21.07	21.07
Meter Spud	9.39	14.63	14.63
Grounding Clamp <sup>2</sup>	3.81	3.81	3.81
<b>Total Capital Cost</b> <sup>3</sup>	<b>\$3,894.04</b>	<b>\$4,038.84</b>	<b>\$4,038.84</b>

**Capital Cost Amortization** <sup>4</sup>      \$73.06      \$79.26      \$79.26

**Annual Expenses** <sup>5</sup>

Debt Service <sup>6</sup>	\$1,541,754			
Billing and Accounting (net) <sup>7</sup>	239,042			
General & Administrative <sup>8</sup>	222,133			
Customer Service Expense	167,565			
Meter Reading	149,455			
Meter Maintenance	93,360			
Stationary & Supplies	64,497			
Uncollectible Accounts	23,230			
Office Equipment Expense	8,290			
Collection Agency Fees	2,229			
Distributed to West Marin <sup>9</sup>	(13,961)			
Field Collection Expense (net) <sup>10</sup>	(45,233)			
<b>Total Annual Expense</b>	<b>\$2,452,361</b>	<b>/ 20,480 =</b>	<b>\$119.74</b>	<b>\$119.74</b> <b>\$119.74</b>

**Total Annual Cost per Meter**      \$192.81      \$199.01      \$199.01

**Bimonthly Cost (Annual Cost / 6)**      **\$32.13**      \$33.17      \$33.17

**Current Bimonthly Charge**      **\$30.00**      \$34.00      \$60.00

**Bimonthly Contribution to System Repair and Replacement**      **(\$2.13)**      \$0.83      \$26.83

1 Average cost of last 5 years' installations.

2 Same 1" size is used for all three services shown.

3 Includes 9.0% sales tax & 15% material handling charge.

4 Annual capital cost amortization (capital recovery) is based upon estimated materials life of 50 years (except the meter which is amortized over 20 years) and assumes, in accordance with the Federal government's directive on discount rates specified in OMB Circular No. A-94 (revised December 2013), a nominal interest rate of 3.9% and an inflation rate of 1.9%.

5 Based on costs reported in the Audited FY2013 financial statement.

6 Debt service includes Principal & Interest for the STP SRF Loan, EDA Drought Loan and AEEP Bank of Marin Loan.

7 Billing and Accounting amount shown is net of new account charge revenue.

8 G&A is 37% of labor expense.

9 Billing & Accounting expense is allocated to Recycled Water and West Marin customers based on the number of active accounts.

10 Field Collection Expense amount shown is net of account turn-on charge revenue.





**NORTH MARIN  
WATER DISTRICT**

February 14, 2014

999 Rush Creek Place  
P.O. Box 146  
Novato, CA 94948

**PHONE**  
415.897.4133

**FAX**  
415.892.8043

**EMAIL**  
info@nmwd.com

**WEB**  
www.nmwd.com

Beverly James, General Manager/Engineer  
Novato Sanitary District  
500 Davidson Street  
Novato, CA 94945

Re: North Marin Water District Recycled Water Commitment

Dear Ms. James: *Beverly*

Pursuant to our recent discussions, this letter serves as a commitment by North Marin Water District (NMWD) to continue utilization of Recycled Water in our Novato service area and to expand the existing system as appropriate and planned pursuant to the North Bay Water Reuse Authority (NBWRA) Phase 1 Project.

NMWD's Novato Recycled Water Expansion in the central service area is currently anticipated to begin in fiscal year 2015/16. The cost of the central area expansion is projected to be \$6M, to be funded 25% by grants through the NBWRA program and 75% by loan funds. The central area expansion is anticipated to be completed by fiscal year 2018. Once the central area expansion is completed, debt service on the north, south and central expansion loans is projected to be at just under \$1M annually. This debt service will be funded from connection fees, collected for connection to the potable system, as the Recycled Water frees up potable water for new connections in Novato. Once the central service area projects are completed, NMWD will continue as an associate member in NBWRA Phase 2.

Additionally, the NMWD Board of Directors has authorized an agreement with Nute Engineering for preparation of the Marin County Club Golf Course Recycled Water Feasibility Study Update. A copy of that information reviewed by the Board of Directors at their January 7<sup>th</sup> meeting, including the draft scope of work is attached to this letter for your information. We expect the update by Nute will be completed this calendar year and will share the study findings with Novato Sanitary District (NSD) when available.

The NMWD Board of Directors recommends that the Recycled Water Subcommittee of NMWD and NSD continue to meet periodically. Should you have further questions in regard to NMWD's commitment to Recycled Water service in Novato, please contact me.

Sincerely,

*Chris DeGabriele*  
Chris DeGabriele  
General Manager

Enclosures

CD/kly

t:\gm\msd\letter to james re central service area.doc

IJ - 382-7209, [localnews@marinij.com](mailto:localnews@marinij.com)  
Novato Advance: [scope@marinscope.com](mailto:scope@marinscope.com)  
Pt Reyes Light: [editor@ptreyeslight.com](mailto:editor@ptreyeslight.com) (fax 663-8458)  
West Marin Citizen: [editor@westmarincitizen.com](mailto:editor@westmarincitizen.com)

February 13, 2014

Contact: Chris DeGabriele, General Manager, (415) 897-4133

## **PRESS RELEASE**

### **North Marin Water District Awarded \$1.486M Grant for West Marin Pipeline**

North Marin Water District (NMWD) has been awarded a grant of \$1,486,000 for the Gallagher Pipeline Project to improve water quality for West Marin customers. NMWD currently serves its West Marin water service area from wells adjacent to Lagunitas Creek in Point Reyes Station. Those wells supply drinking water to the communities of Point Reyes Station, Olema, Bear Valley, Inverness Park, and Paradise Ranch Estates, and are subject to periodic salinity intrusion from the adjacent Tomales Bay. NMWD developed an additional well, upstream of any tidal influence and potential salinity intrusion from Tomales Bay on the Gallagher Ranch, also adjacent to Lagunitas Creek. The Gallagher Pipeline Project is approximately 1-mile in length and will connect the Gallagher Well to the existing Point Reyes water treatment plant. The project is expected to be completed in the fall of 2014.

NMWD Board President Dennis Rodoni stated "This is a big deal in assuring water quality for the future. The NMWD staff and Board have been proactive over the past decade to seek grant funding for this project and those efforts will now benefit NMWD's 775 West Marin customers."

The grant is made available by the California Department of Public Health under the Proposition 50, Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 to assist the NMWD's West Marin service area in meeting safe drinking water standards for its domestic water supply.

For further information, please contact Drew McIntyre, NMWD Chief Engineer at (415) 897-4133 ext. 8510.

can DAR genealogical resources and make them searchable online.  
 For further information, email elmarinerodar@gmail.com or call Shirley Graves at (415) 883-5590.

Novato Spirit Executive Director Marian Schinske at (415) 892-5118, marian-schinske@gmail.com or visit Novato-spirit.org.

# MARINSCOPE

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## LETTERS TO THE EDITOR

All letters submitted to Marinscope Newspapers for publication must include a return address and telephone number. Names may be withheld at all or parts of letters submitted, and to edit letters as we do in print or digital form in any publication or service offered by Marinscope. The deadline is Friday, 5 p.m., for the next week's edition. You can also fax letters to 415-897-4642. Letters can also be submitted via email to editor@marinscope.com.

### Emphatically no!

Last week's Novato Advance's letter to the editor under this heading (including a photo of the North Marin Water District flushing program) is an example of the competing interests that NMWD is attempting to balance in this extremely dry year.

Each day NMWD employees strive to carry out their work mindful of four basic principles: Good Water, Good Service, Good Value and a Safe Place to Work. Good Water (Water Quality) is NMWD's top priority. This year, due to drought conditions, NMWD has limited its annual water quality flushing program. In a normal year, NMWD strives to flush all Novato water distribution pipelines and this typically uses about 10 million gallons of water. This year, the limited flushing used just over 4 million gallons of water. This amount is less than one day's typical water use for all customers in Novato during the winter.

Currently all Novato's water is being delivered from the Russian River and NMWD has avoided any restrictions on water use. Nevertheless, this is a drought and customers are asked to voluntarily conserve water: turn off all unnecessary outside irrigation, fix leaks promptly, and participate in NMWD Water Conservation programs.

Chris DeGabriele  
 General Manager NMWD

### Happy New Year, now pay up

(The following letter was mailed to the 382 members of Novato's Downtown Business Improvement District on Jan. 1, 2014. It is a notice of support for the...

*Novato Advance*  
 02/04/14

✓ DOD  
 MISE

## **Novato to store water for the rest of Marin to maximize supplies in dry year**

*Posted:*

marinij.com

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A Novato reservoir will store millions of gallons of water for its neighbors to the south under an agreement approved this week by two Marin utilities.

The agreement to "bank" water at Stafford Lake in Novato will improve water supplies in Marin as the county deals with a lack of rainfall over the last 13 months that is "without precedent," according to the Marin Municipal Water District.

Despite this week's rains, the Marin Municipal Water District is still far behind its normal rainfall and reservoir storage levels. At the beginning of the week, reservoirs were at 53 percent of capacity. Normally they are 82 percent full this time of year. The water district serves customers between Sausalito and San Rafael.

The North Marin Water District — which serves Novato and West Marin — has seen its Stafford Lake reservoir dip to 30 percent of capacity. With so little water, North Marin will be heavily reliant this summer on supplies it gets from the Sonoma County Water Agency.

The problem is Marin Municipal also gets water from Sonoma County and it shares a pipeline with North Marin.

With North Marin relying heavily on the Sonoma water this summer, there is concern there would not be enough capacity in the pipe to get enough of the supply to Marin Municipal.

To remedy the issue, the Marin water agencies have agreed to divert and "bank" water now to Stafford Lake. Marin Municipal would pay the cost of the water and for treatment, then North Marin would send it south beginning in June when it is needed. Marin Municipal does not have the capability to store the water.

The process, known as "backfeeding," is not new. The water districts have used the practice before in 1988, 1989, 1991 and 2009. It comes at a price for Marin Municipal, which will pay North Marin \$227,000. But the move could provide up to 500 acre-feet of water to Marin Municipal — almost 163 million gallons.

The plan can be terminated by either party if they deem existing water supplies are sufficient to meet needs. While the Sonoma County Water Agency provides water to other districts in the region, they do not have the ability to store and treat water like North Marin.

While the backfeeding process makes the water more expensive for Marin Municipal, its general manager said it is an important source.

"We want to be able to get the maximum amount of water during this time when it has been so dry," said Krishna Kumar.

Chris DeGabriele, general manager of North Marin, said the agreement underscores the cooperation between the districts and just makes sense.

"It's a cooperative effort to maximize the water delivery system," he said. "And you have to do it now."

Contact Mark Prado via email at [mprado@marinij.com](mailto:mprado@marinij.com)

## Marin Voice: Time for Marin to reconsider desal?

Posted:

marinij.com

IN A COLUMN I wrote in August 2009 when we were experiencing the onset of a mini-drought, I quoted the late Supervisor Hal Brown who warned, "The price of a reliable supply of water is minimal compared to the price of a drought."

Truer words were never spoken.

Then, we were spared the worst consequences, but not before the county's water agencies were forced to invoke voluntary water rationing and modest rate hikes at a time when Marin Municipal Water District still had sufficient water in its seven reservoirs.

However this was before the county experienced its driest year on records dating back to 1929 and the governor needed to declare a state of emergency statewide.

The year 2013 now ranks as the driest year in California history going back to 1850.

This drought is deemed severe enough to require turning off the spigots to the state Water Project for the first time in 54 years. This system transports northern drinking water for 23 million people from Silicon Valley to the Los Angeles basin that irrigates 750,000 acres of farmland.

MMWD's reservoirs, normally at 77 percent capacity this time of year are at 55 percent and the North Marin Water District is reporting only 2 inches of rain during this "rainy" season. The average is 27.2 inches.

The recent downpours were only a temporary reprieve.

Not surprisingly we are once again hearing the cry for more conservation. However you cannot conserve something you do not have. If water runs out completely, greater recycling, the best groundwater management, parched lawns, shorter showers, less flushing and the latest proposal — water "banking" will get you only so far.

Marin had a chance to take out an insurance policy years ago by adopting desalination, which was met with hyperventilation from critics over high start-up and energy costs, exaggerated ecological dangers and fears about rampant population growth.

What we may get if the drought intensifies is mandatory rationing, withered crops, and angry customers already practicing maximum conservation.

As Rep. Jared Huffman comments, "Desal was never meant to be a permanently producing part of the supply, only a back-up guarantee during a serious drought."

If desal were to be adopted, Huffman advocates "starting with the smallest (5mgd or 5,000 acre feet) annual capacity. That would take care of about one-sixth of the demand when it was running — not enough to replace lake supplies but enabling them to last much longer."

Given the strong prospect, if the drought continues, of significant flow reductions to Lagunitas Creek which could threaten salmon and steelhead populations, Huffman and other environmentalists see desal as a preferred alternative.

The MMWD flirted with the mostly proven technology going so far as to endorse installation of a scaled-down desal plant nearly a decade ago. It was shelved despite voter support. This was after extensive testing showing it capable of producing eminently drinkable water judged safe as well for marine life.

If crops are ruined in the drought, sending food prices skyward, the down payment and user charges for desal may seem paltry in comparison, not to mention the constant threat of wild fires.

Opponents seem willing to ignore a preponderant body of evidence that climate change and global warming are hardly fantasies and could have potentially devastating impacts.

Dramatic weather changes and the future of water is the most critical issue of the day. Elected officials at all levels should be devising comprehensive long-term solutions that feature equitable sharing of costs and benefits including the possibility of regional compacts to finance desal and other innovations.

Putting off tough decisions until the next emergency is not an option and the price of neglect grows each day.

Richard Rubin of Strawberry writes about political issues and is president of a public affairs management firm. His email is [richardrubinassociates@gmail.com](mailto:richardrubinassociates@gmail.com). His blog is at [www.thepoliticalstage.com](http://www.thepoliticalstage.com)

## Novato residents asked to cut water use by 20 percent

Posted:

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The agency that provides much of the water to Novato is asking that community for a voluntary 20 percent reduction in use.

The Sonoma County Water Agency announced this week it is calling on residents of the cities and water districts it serves to cut back water use. The North Marin Water District — which serves 60,000 people in Novato and West Marin — gets 80 percent of its water from the agency.

While the North Marin Water District has urged its customers to turn off all unnecessary outside irrigation, fix leaks and to participate in conservation programs, it has not officially asked for a specific percentage of water reduction.

The action by the Sonoma County Water Agency mirrors what Gov. Jerry Brown called for last month.

"The water agency supports the governor's emergency drought declaration, and that's why I am asking everyone who receives water from our Russian River water supply system to immediately reduce their water use by 20 percent," said Grant Davis, general manager of the water agency, in a statement.

In Sonoma County, it's Lake Sonoma from which Marin County gets its supplies. Water from the reservoir flows into Dry Creek, then into the Russian River, where it is gathered in ponds. Groundwater is then tapped and supplies are sent south to Marin via a series of pipelines.

North Marin Water District General Manager Chris DeGabriele supports the call for the reduction, but is still hopeful more rain will come.

"There is still time yet in the rainy season," he said. "And there still is Russian River water available."

The Marin Municipal Water District — which serves 190,000 customers between Sausalito and San Rafael — gets about 25 percent of its water from the Sonoma agency via the Russian River. Marin Municipal has asked that its customers cut water use voluntarily by 25 percent.

Last month the Marin Municipal, North Marin and Sonoma County water agencies and seven other municipal and regional water systems that use the Russian River for supplies launched their first wintertime conservation campaign dubbed: "The Drought is On; Turn the Water Off."

In addition to the Marin districts, the Sonoma water agency provides water to Santa Rosa, Petaluma, Rohnert Park, Sonoma, Cotati, Windsor and the Valley of the Moon. All the water agencies are part of what is known as the Sonoma-Marin Saving Water Partnership.



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