



NORTH MARIN WATER DISTRICT

NORTH MARIN WATER DISTRICT AGENDA - REGULAR MEETING September 16, 2014 – 7:30 p.m. District Headquarters 999 Rush Creek Place Novato, California

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Est. Time	Item	Subject
7:30 p.m.		CALL TO ORDER
	1.	APPROVE MINUTES FROM REGULAR MEETING , September 2, 2014
	2.	GENERAL MANAGER'S REPORT
	3.	OPEN TIME: (Please observe a three-minute time limit) 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.	STAFF/DIRECTORS REPORTS
	5.	MONTHLY PROGRESS REPORT
		CONSENT CALENDAR 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.	Consent – Approve: Nomination of David Bentley to Serve as Board Member of ACWA Region 1
	7.	Consent – Approve: CalPERS Resolution to Reduce District Contribution
		ACTION CALENDAR
	8.	Approve: Stone Tree Golf, LLC Assignment Agreement
	9.	Approve: Response To California Pool & Spa Association
	10.	Approve: Authorization To Award Contract For Fire Service Testing
8:00 p.m.		INFORMATION ITEMS
	11.	AEEP Construction Management Report No. 1 (Vali Cooper & Associates)
	12.	Technical Advisory Committee Meeting – September 8, 2014
	13.	MISCELLANEOUS Disbursements FY14 Residential Consumption & Tier-Rate Status Report STP Solar Power Facility – 2 nd Year Status Report City of Napa Letter Letter from Customer

All times are approximate and for reference only.

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

News Articles:

Local cities outpace statewide average for water savings

9:00 p.m. 14. ***ADJOURNMENT***

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DRAFT
NORTH MARIN WATER DISTRICT
MINUTES OF REGULAR MEETING
OF THE BOARD OF DIRECTORS
June 3, 2014

ITEM #1

CALL TO ORDER

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

Ed Nute, Nute Engineering, Novato Boys Scouts Troop 79, District employees Robert Clark (Operations/Maintenance Superintendent), Ryan Grisso (Water Conservation Coordinator) and Pablo Ramudo (Water Quality Supervisor) were in the audience.

MINUTES

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

GENERAL MANAGER'S REPORT

Water Production

Mr. DeGabriele advised the Board that preliminary figures on the August 2014 Novato water production show a reduction of 20.3% compared to one year ago. He stated that in West Marin the water production was only down 7.8%, although the Palace Market leak continued through the first week of August. He informed the Board that Lagunitas Creek is still natural water flowing above that released by Marin Municipal and the District has not had to request more water from Marin Municipal Water District and that the sodium threshold has not been exceeded this summer.

August 24th Earthquake

Mr. DeGabriele stated that he sent the Board an email after the August 24th earthquake and stated that the District was very fortunate to not have any damage to the water system as a result of the earthquake.

Technical Advisory Committee Meeting

Mr. DeGabriele informed the Board that there will be a Technical Advisory Committee Meeting on Monday, September 8th and the agenda was not available for the meeting tonight.

1 New Full-Time Employee

2 Mr. DeGabriele advised the Board that the District hired Jose Ochoa, a young Novato
3 resident and graduate from San Marin High School, to fill the open Construction/Maintenance
4 Laborer position. He stated that he appears to be a hard worker and a good addition to the
5 construction crew.

6 OPEN TIME

7 President Rodoni asked if anyone in the audience wished to bring up an item not on the
8 agenda and there was no response.

9 STAFF / DIRECTORS' REPORTS

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

12 Mr. Bentley welcomed the Novato Boy Scout Troop 79 to the meeting. He advised the Board
13 that the troop is attending to earn their citizenship/community service merit badge. He stated that the
14 Troop members must report on a controversial topic and formulate their own opinion on the
15 controversy.

16 Robert Clark, Maintenance/Operations Superintendent discussed the Emergency
17 Operations Plan with the Board in regards to the 6.1 earthquake that occurred on Sunday, August
18 24th. He advised the Board that there were no problems in the Novato systems, West Marin or
19 Oceana Marin or damage to any of the facilities and that the earthquake was a good lesson on
20 improving the District's Emergency Operations Plan.

21 Mr. DeGabriele advised the Board that the on-call construction employee on the day of the
22 earthquake is a resident of Napa and reported to work in Novato and waited through the morning to
23 make sure there were no problems in the Novato Water System. Mr. DeGabriele informed the Board
24 that the on-call employee and another construction employee volunteered their time after hours
25 working in Napa from 5pm-10pm all of last week to help assist and repair the Napa Water System.

26 Mr. Clark advised the Board that over the 3-day holiday weekend the emergency on-call
27 crew received a call around 11pm on Sunday night about a main break on Ridge Road. He stated
28 that it took all night and into Monday to fix the break and that there was over 145K gallons of water
29 lost. He stated that 13 residents were affected with damage from the mud and silt resulting from the
30 break and that maintenance staff will be going out to clean up the area. Mr. Clark informed the
31 Board of another main break that occurred at 4am Tuesday morning on Arthur and Indian Valley
32 Road, having limited effect on customers or the environment as the water ran down the road into the

1 gutter into the creek. He stated that there was no reportable discharge in respects to the new
2 permitting responsibilities and that over 235K gallons of water was lost as a result of the break.

3 Pablo Ramudo, Water Quality Supervisor, advised the Board that in the Ridge Road break,
4 59 customers were out of water. He stated that laboratory staff collected samples after the line was
5 fixed and provided customers in the area with a flyer that alerted them about the compromised water
6 quality. He stated that there was no indication of contamination and that the line was flushed out. He
7 noted that a sample was collected today and will be read tomorrow and if there are no signs of
8 contamination, laboratory staff will deliver cancellation of the water quality alert to all customers
9 affected. Mr. Ramudo advised the Board that staff notified the California Department of Public
10 Health of the water outage.

11 Director Fraites stated that he was one of the 59 customers without water and informed the
12 Board and staff that the construction crew was exceptional and all the customers were impressed
13 with the crew's politeness and ability to get the job done so quickly. He commended the crew and
14 the District staff for a job well done.

15 President Rodoni asked if the main breaks might have been due to the earthquake. Mr.
16 Clark stated that he believes they are stress fractures and that the District's engineers are still
17 investigating the reasons for the break.

18 **CONSENT CALENDAR**

19 On the motion of Director Schoonover, seconded by Director Petterle and unanimously
20 carried, the following item was approved on the consent calendar:

21 **INN MARIN QUITCLAIM**

22 The District performed cross-connection and meter improvements on existing facilities at the
23 Inn Marin and relocated one fire hydrant. The project necessitated new easements overlapping
24 some existing easements. It was more cost effective to survey all water facilities and post same on a
25 single new document. In order to properly remove a portion of the old easement encumbering said
26 parcel, the District must record a quitclaim. The Board approved quitclaim for APN 160-161-12 and
27 authorized the General Manager to execute the quitclaim.

28 **ACTION CALENDAR**

29 **REQUEST FOR ADDITIONAL BILL ADJUSTMENT – 45 BOGEY LANE**

30 Mr. Bentley advised the Board that Ms. Kientz was invited to attend the meeting tonight via
31 phone message and she is not present. He stated that she had a leak on her property, using 53K
32 gallons of water and had repaired the leak. He stated that Ms. Kientz received a water bill for \$411.

1 Mr. Bentley advised the Board that Ms. Kientz provided receipts for her repair, water bill and pictures
2 of the leak being repaired.

3 Director Schoonover noted that the total bill included a lot of other items that had nothing to
4 do with the leak.

5 Mr. Bentley stated that Ms. Kientz has been a customer since 1962 and has a good payment
6 history. He advised the Board that according to Board policy customers may receive one bill
7 adjustment in a 24-month period and Ms. Kientz received an adjustment last year. He noted that
8 staff gets frequent calls about leaks and have denied other customers who have previously received
9 a bill adjustment in the 24-month period and believes that the Board shouldn't set precedence for
10 future customers. He provided the Board with three options: let the bill stand at \$411, grant another
11 bill adjustment of \$181, or give some sort of an adjustment in the amount of \$0-\$180. Mr. Bentley
12 advised the Board that staff recommends keeping the bill at \$411.

13 Director Pettele asked if Ms. Kientz came to the Board for her first adjustment last year. Mr.
14 Bentley replied no and stated that the adjustment was issued under the Board policy by staff. He
15 stated that it was a high bill and staff performed a water audit but was unable to determine the cause
16 and that it was a larger bill adjustment than now requested.

17 President Rodoni asked if it was a rental. Mr. Bentley stated that the house was in the same
18 last name but he was unsure.

19 President Rodoni stated that he understood the Districts' concern about setting precedence
20 and believes that the Board should adhere to the policy with the one-time adjustment in a 24-month
21 period.

22 On motion of Director Baker, seconded by Director Schoonover and unanimously carried,
23 the Board concurred with the staff recommendation and denied the bill adjustment request, letting
24 the bill stand at \$411.

25 **STP TRANSMISSION LINE EVALUATION CONTRACT – PURE TECHNOLOGIES**

26 Mr. McIntyre advised the Board that the Stafford Treatment Plant (STP) transmission main
27 was installed in 1951 for the purpose of delivering water from STP to the District's Zone 1 water
28 service area. He stated that the purpose of the inspection is to determine the current pipe condition
29 and assess the remaining life. He noted that the pipe is approximately 13,800 feet of 24-inch and
30 18-inch concrete cylinder pipe. Mr. McIntyre informed the Board that a Request for Proposal was
31 mailed out in October 2013 to five companies and two companies returned proposals, Pure
32 Technologies and Echologics.

1 Mr. McIntyre advised the Board that Pure Technologies is proposing their "Sahara" system,
2 which is a cable tethered camera with audio inspection for leak detection. He stated that it will also
3 provide an interior video inspection along with leak finding capabilities. He informed the Board that
4 Pure Technologies has previously worked for Sonoma County Water Agency. Mr. McIntyre
5 requested the Board approve award to Pure Technologies and execute an agreement for \$120K.

6 President Rodoni asked about the table included in Mr. McIntyre's memo showing with the
7 cost of the proposals. Mr. McIntyre explained that Pure Technologies provided a range of proposals
8 for different types of work to be done from \$56K to \$270K. He noted that the District chose the
9 \$120,000 proposal which includes visual and acoustic testing.

10 Director Baker asked how the \$120K compared to Echologics proposal of \$168K. Mr.
11 McIntyre informed the Board that Echologics proposal did not include a visual inspection.

12 Director Baker asked which points of entry the District would be using. Mr. McIntyre
13 explained that staff should be able to monitor the entire pipe line depending on where the turnouts,
14 blow-offs and valves are located.

15 On motion of Director Fraites, seconded by Director Petterle and unanimously carried, the
16 Board approved award of contract to Pure Technologies, Inc. and authorized the General Manager
17 to execute an agreement with Pure Technologies, Inc. for \$120,000 and set aside a contingency
18 reserve of \$30,000 for the work.

19 **INFORMATION ITEMS**

20 **FOURTH QUARTER FY 13/14 - WATER QUALITY REPORT W/ QUARTERLY**
21 **BACTERIOLOGICAL MONITORING REPORT**

22 Pablo Ramudo, Water Quality Supervisor provided the Board with the Fourth Quarter
23 FY13/14 Water Quality Report with the Quarterly Bacteriological Monitoring Report. He stated that in
24 the Novato System, Stafford Lake water was used as a source of drinking water during the 4th
25 quarter of the fiscal year. He advised the Board that algae from the raw water intake were identified
26 and enumerated and the numbers were low for the period. He noted that water clarity was very good
27 during the period and there were no taste or odor problems. Mr. Ramudo stated that of the 254
28 routine samples collected for compliance with the Total Coliform Rule, there were no coliform
29 positive samples, chlorine residual was adequate and disinfection byproducts were moderate this
30 quarter.

31 Mr. Ramudo advised the Board that in the Point Reyes System, the raw water quality was
32 good throughout the quarter. He stated that the salt water intrusion was fairly low and near the
33 historical baseline level. Mr. Ramudo discussed the presence of lead and copper in the water in

1 Point Reyes. He informed the Board that the District is under a tri-annual monitoring system for lead
2 and copper and in 2014 was required to collect 10 samples from customer homes. He noted that
3 there is no lead or copper in the water distributed but leaches from the fixtures and plumbing and
4 can be detected at the tap after the water meter. Mr. Ramudo informed the Board that staff is
5 working with California Department of Public Health Services outlining the responsibilities of the
6 District. He advised the Board that the District has the option to conduct a corrosion control study
7 over the next 2.5 years and would entail collecting 40 samples in 2015 and if the 90th percentile of
8 samples are below the action limit, the District would not be obligated to complete the study. He
9 noted that the District could be required to install a corrosion control system in the Pt. Reyes Water
10 System.

11 Director Baker asked if the District has previously installed a corrosion control system. Mr.
12 Ramudo noted that in the Novato Water System staff is able to control corrosion by raising the pH
13 levels.

14 President Rodoni asked if the houses sampled are older. Mr. Ramudo stated that the
15 houses have been built between 1957 and 1982 as the Environmental Protection Agency (EPA) has
16 indicates is the period of time when the building materials were more likely to have lead and copper
17 constituents. Mr. Ramudo advised the Board that there is a very small amount of lead in the
18 samples.

19 Mr. Ramudo advised the Board that iron and manganese removal was excellent in West
20 Marin and neither of the metals were detected and out of the 23 samples collected for compliance
21 with the Total Coliform Rule, there were no positive coliform samples and chlorine residuals were
22 adequate for the quarter.

23 Mr. Ramudo informed the Board that the Deer Island Recycled Water Facility was operated
24 for several days in April to provide recycled water to the North Novato area while Novato Sanitary
25 District was temporarily unable to produce recycled water. He stated that the water quality was good
26 and there was no samples having coliform bacteria.

27 Mr. Ramudo discussed the incident that occurred in Toledo, Ohio last month regarding the
28 declaration of unsafe drinking water. He stated that declaration was made due to a toxin produced in
29 Lake Erie algae which was found to be above health guidelines. Mr. Ramudo informed the Board
30 that Stafford Lake produces this particular algae, one of the species responsible for taste and odor
31 problems, but does not reach the population sizes observed in Lake Erie. He reassured the Board
32 that Stafford Lake has had blooms of this algae and have tested it and not found the toxin. He noted

1 that the toxin is easily removed by chlorination and granular activated carbon adsorption when the
2 concentration is moderate.

3 Director Baker thanked Mr. Ramudo for the additional information on the water quality report.

4 **FY 14 – OPERATIONS/MAINTENANCE YEAR END REPORT**

5 Robert Clark, Operations/Maintenance Supervisor provided the Board with the FY14 Year
6 End Report. He informed the Board that the Operations/Maintenance staff received a lot of help
7 from the Construction/Maintenance crew with flushing and tank cleaning this year. He stated that all
8 end lines were flushed. Mr. Clark advised the Board that the Treatment Plant completed a project to
9 improve the sand fluidization system and adjustments to the polymer mixture which resulted in a
10 50% reduction of sand use at Stafford Treatment Plant. He noted that the Treatment Plant got a late
11 start in production due to the low volume of water and will be shut down around the week of
12 September 15th. Mr. Clark advised the Board that staff is currently working with a consultant to
13 produce better tasting water and is reviewing preliminary results.

14 Mr. Clark advised the Board that District staff is back in control of all facilities in Oceana
15 Marin and has begun work on varied maintenance items. He stated that the water quality staffing
16 augmentation was completed with a temporary lab assistant while one of the chemists was out on
17 leave.

18 Mr. Clark stated that the maintenance staffing levels have been consistent over the past
19 year and received continued help from the Operations staff on spring clean-up and backflow
20 program activities. He reminded the Board that he has bid proposals coming in regarding the testing
21 of fire services. Mr. Clark informed the Board that the Electrical/Mechanical designed, built, installed
22 and started up a replacement remote telemetry unit for the Oceana Marin facilities and installed tank
23 access security controls for 16 tank locations. He advised the Board that the Buildings and Grounds
24 crew completed annual inspection of the landscape plantings and irrigation for the recycled water
25 south, Leveroni Creek restoration and the Palmer Tank, Center Road Tank, and Amaroli Tank
26 Projects. He praised Joe Cilia for his job well done on keeping the grasses and willows alive on the
27 Leveroni Creek.

28 **WATER CONSERVATION YEAR END REPORT (JULY 2013 THROUGH JUNE 2014)**

29 Ryan Grisso, Water Conservation Coordinator, provided the Board with the Water
30 Conservation Year End Report. He spoke about the positive highlights throughout the year. He
31 stated that the Water Smart Home Survey participation more than doubled, the High-Efficiency
32 Toilet Replacement Program increased by 46%, and the Cash for Grass Program had 52 projects.
33 He noted that as of January 1, 2014, customers can only purchase a high efficiency toilet.

1 Director Baker asked if the number of Cash for Grass rebates are all completed projects. Mr.
2 Grisso stated that they were all completed and paid.

3 Mr. Grisso stated that the toilet giveaway was a big success with over 600 people requesting
4 toilets. He stated that 466 toilets were given away in Novato and 25 more in West Marin.

5 Mr. Grisso advised the Board that the District has sent out three newsletters including the
6 winter *WaterLine* which alerted customer about the drought, held an eco-friendly garden tour,
7 manned a booth at the Tour of Novato, and participated in other workshops. He noted that most of
8 the budget this year with expended bigger rebates and that the District did receive \$47K from grant
9 reimbursement.

10 Mr. Grisso provided the Board with a history of the District's Toilet Replacement Program.
11 Director Baker praised Mr. Grisso and said that the information was very helpful and he had done a
12 great job with the provided information.

13 Director Fraites stated that he was happy to see the Cash for Grass Rebate increase and
14 questioned if Homeowners Associations were having issues with residents wanting to remove grass.
15 Mr. Grisso stated that the District has been having issues with Homeowners Associations but are
16 pretty aggressive about approaching them.

17 **YEAR END PROGRESS REPORT – ENGINEERING DEPARTMENT**

18 Drew McIntyre provided the Board with the Engineering Department FY13/14 Year End
19 Report. He advised the Board that for the majority of last year, engineering staff worked on the plans
20 and specifications for the Atherton Tank Rehabilitation Project, the Gallagher Pipeline Project and
21 the Aqueduct Energy Efficiency Project (AEEP). He informed the Board that at the next meeting in
22 September, the Board will receive a project update from Ken Sinclair of The Covello Group about
23 the AEEP. Mr. McIntyre advised the Board that with respect to the budget, Novato water only spent
24 half of what was budgeted, Recycled Water spent two times what was budgeted and West Marin
25 spent approximately 51%. He informed the Board that the reason for not spending the budget in the
26 Novato system was because expenditures for the AEEP were less than expected. Mr. McIntyre
27 stated that with respects to Recycled Water additional funds were expended for the South Service
28 Area expansion and in West Marin the expenditures were less because of the delays with the Solids
29 Handling Project due to permitting issues. He stated that at the beginning of the fiscal year there
30 were 37 projects and ended the year with 44. Mr. McIntyre advised the Board that staff is waiting to
31 hear about the Coast Guard Housing Facilities with property and if the District can expand the
32 current easements.

1 Director Baker asked if the District has the rights to carry forward the property rights with the
2 new enterprise at the Point Reyes Coast Guard Hosing facility. Mr. McIntyre stated that the District
3 does have easements from the federal government which would be transferred to any new property
4 owner. He noted that the District is trying to improve and expand the easements in the process.

5 President Rodoni asked if government entities get first choice in the property. Mr.
6 DeGabriele stated that he didn't know whether the federal surplus regulations are the same as the
7 state regulations. He stated that the County knows what the District wants but is having a hard time
8 communicating with the Coast Guard as well.

9 President Rodoni suggested that the Board and staff be more proactive in pursuing the
10 transfer of Coast Guard properties. Mr. DeGabriele stated that he would investigate the issue more
11 throughly.

12 **TEMPORARY URGENCY CHANGE ORDER**

13 Mr. DeGabriele advised the Board that two Temporary Urgency Change Orders were
14 adopted by the State Board on Monday. He stated that the first was issued to the Sonoma County
15 Water Agency on the Russian River and Dry Creek, enabling minimum in stream flows in the upper
16 Russian River to be lowered to 50 cubic feet per second (cfs) and in the lower Russian River down
17 to 60cfs. He informed the Board with the lowered in stream flows there is projected to be an
18 additional 4,000AF of water in Lake Mendocino between now and November 1st. Mr. DeGabriele
19 advised the Board that Term 17 of the Order, outlines additional water conservation requirements,
20 requiring SCWA to develop a water demand reduction plan achieving 20% reduction in the baseline
21 water demand. He informed the Board that he will be meeting with the Ad Hoc Committee after next
22 week's Technical Advisory Committee meeting to discuss if any further water use restrictions will be
23 needed.

24 Mr. DeGabriele informed the Board that the second Temporary Urgency Change Order
25 was issued to Mendocino County Russian River Flood Control and Water Conservation
26 Improvement District. He stated that this order enables SCWA to comply with the minimum in
27 stream flows by requiring the Mendocino District to provide real time forecast of diversions to
28 SCWA. He noted that it also requires a 25% reduction in Mendocino District contract deliveries and
29 requires development of long-term drought contingency plan. Mr. DeGabriele informed the Board
30 that this order also adds the State Water Resources Control Board standard permit Term U
31 requiring a minimum 20% reduction in baseline water demand, including on-farm conservation.

32 Mr. DeGabriele advised the Board that Sonoma County Water Agency did not intend to file
33 another petition but received political pressure to do so and only filed after Mendocino County filed.

1 He noted that with the requirements of Mendocino County, there is estimated to be an additional
2 4,000AF of storage in Lake Mendocino on November 1st. Mr. DeGabriele advised the Board that as
3 of yesterday, Lake Mendocino held 32,000AF. He noted that the flow restrictions will benefit
4 Mendocino and should not affect the fisheries. He stated that Lake Sonoma currently holds
5 156,000AF, 63% capacity.

6 President Rodoni stated that he is happy that Mendocino was asked to do similar things and
7 be a part of the petition.

8 Director Baker asked if Mendocino was reluctant to file a petition. Mr. DeGabriele stated that
9 Mendocino was not reluctant but the state was reluctant to bring them on board and now it puts
10 obligations on Mendocino to perform.

11 **MARIN COUNTY CLUB GOLF COURSE 2014 RECYCLED WATER FEASIBILITY STUDY**
12 **UPDATE – DRAFT REPORT**

13 Mr. McIntyre reminded the Board of the initial Marin Country Club (MCC) Recycled Water
14 Feasibility Study which was approved by the Board in September 2004. He noted that almost ten
15 years has elapsed since the original Feasibility Study and in 2013 MCC requested an update to
16 incorporate recent recycled water expansion in the Novato North and South Service Areas and
17 develop new updated costs associated with potential expansion of recycled water to MCC Golf
18 Course. Mr. McIntyre stated that in early January the Board authorized staff to update the 2004 MCC
19 Feasibility Study. He advised the Board that in May 2014 the draft Feasibility Study was completed
20 by Ed Nute from Nute Engineering and has subsequently been undergoing review by both MCC and
21 District staff. Mr. McIntyre asked Ed Nute to give an overview of the report to the Board and stated
22 that MCC has expressed initial interest in joint participation in the Recycled Water Central Service
23 Area expansion project with the intent to construct an Ignacio Area Extension. He informed the
24 Board that he and Mr. DeGabriele will have more meetings with MCC in the upcoming weeks and
25 could potentially have a draft Memorandum of Understanding for the Board at the first meeting in
26 October.

27 Ed Nute from Nute Engineering provided the Board a slideshow presentation on the Draft
28 Report of the Marin County Club Golf Course 2014 Recycled Water Feasibility Study.

29 **NBWA MEETING – SEPTEMBER 5, 2014**

30 Director Fraites advised the Board that he will be attending the North Bay Watershed
31 Association meeting on Friday, September 5th.

1 **MISCELLANEOUS**

2 The Board received the following miscellaneous information: Disbursements and Marin
3 County Fish and Wildlife Commission Newsletter.

4 The Board received the following news articles: Suggestions for drought tolerant plants,
5 Drought prompts Marin water districts to clamp down on irrigation systems and State extends review
6 of \$25B delta plan.

7 **ADJOURNMENT**

8 President Rodoni adjourned the meeting at 9:26 p.m.

9 Submitted by

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Katie Young
District Secretary

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NORTH MARIN WATER DISTRICT
MONTHLY PROGRESS REPORT FOR August 2014
September 16, 2014

ITEM #5

1.

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

Month	FY14/15	FY13/14	FY12/13	FY11/12	FY10/11	15 vs 14 %
July	319	385	389	371	379	-17%
August	300	360	396	373	368	-16%
FYTD Total	619	745	785	744	747	-17%

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

Month	FY14/15	FY13/14	FY12/13	FY11/12	FY10/11	15 vs 14 %
July	8.6	9.3	9.8	9.2	9.9	-7%
August	8.5	9.3	9.7	9.4	9.9	-8%
FYTD Total	17.1	18.6	19.5	18.7	19.8	-8%

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

Month	FY14/15	FY13/14	FY12/13	FY11/12	FY10/11	15 vs 14 %
July	83	98	49	115	109	-15%
August	61	83	83	126	108	-26%
FYTD Total	144	181	131	241	217	-20%

Recycled Water Production - in Million Gallons - FY to Date

Month	FY14/15	FY13/14	FY12/13	FY11/12	FY10/11	15 vs 14 %
July	21.8	27.6	11.2	11.0	11.9	-21%
August	26.0	26.2	10.5	12.2	11.2	-1%
FYTD Total*	47.9	53.8	21.7	23.2	23.2	-11%

*Excludes potable water input into the RW system: FY15=4.5MG; FY14=1.6MG.

t:\w\excel\wtr use\production.xls\mo rpt

2. Stafford Lake Data

	August Average	August 2013	August 2014
Rainfall this month	0.05 Inches	0.00 Inches	0.00 Inches
Rainfall this FY to date	0.06 Inches	0.00 Inches	0.00 Inches
Lake elevation*	185.1 Feet	183.5 Feet	178.7 Feet
Lake storage**	696 MG	614 MG	417 MG

* Spillway elevation is 196.0 feet

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

Temperature (in degrees)

	Minimum	Maximum	Average
August 2013 (Novato)	50	112	75
August 2014 (Novato)	54	103	77

3. Number of Services

August 31	Novato Water			Recycled Water			West Marin Water			Oceana Marin Swr		
	FY15	FY14	Incr %	FY15	FY14	Incr %	FY15	FY14	Incr %	FY15	FY14	Incr %
Total meters	20,751	20,707	0.2%	48	45	7%	821	819	0.2%	-	-	-
Total meters active	20,506	20,479	0.1%	44	42	5%	777	776	0.1%	-	-	-
Active dwelling units	23,950	23,940	0.0%	0	0	-	823	811	0.2%	229	227	0.9%

4. Oceana Marin Monthly Status Report (August)

Description	August 2013	August 2014
Effluent Flow Volume (MG)	0.567	0.532
Irrigation Field Discharge (MG)	0.359	0.459
Treatment Pond Freeboard (ft)	5.7	5.1
Storage Pond Freeboard (ft)	5.1	6.0

5. Developer Projects Status Report (August)

Job No.	Project	% Complete	% This month
1.2768.00	OMA Village Water Facilities	60	10

District Projects Status Report - Const Dept (August)

Job No.	Project	% Complete	% This month
6112.24	Lynwood P.S. Motor Control	10	10
7087.03	Gallagher Well Pipeline Inter-Connection	10	10

Employee Hours to Date, FY 14/15

As of Pay Period Ending August 31, 2014
Percent of Fiscal Year Passed = 17 %

Developer Projects	Actual	Budget	% YTD Budget	District Projects	Actual	Budget	% YTD Budget
Construction	301	1,400	22	Construction	794	4,979	16
Engineering	39	1,480	3	Engineering	939	3,546	26

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 August 14	43	21,672	1	0	1	1704
FY through August 13	21	8736	1	0	1	231

Days without a lost time accident through August 31, 2014= 93 day

7. Energy Cost

FYE		August			Fiscal Year-to-Date thru August		
		Kwh	¢/Kwh	Cost/Day	Kwh	¢/Kwh	Cost/Day
2015	Stafford TP	70,145	17.5¢	\$397	149,444	12.8¢	\$308
	Pumping	164,462	16.6¢	\$855	326,497	16.8¢	\$886
	Other*	46,816	22.8¢	\$334	92,564	23.2¢	\$346
		281,422	17.9¢	\$1,573	568,505	16.8¢	\$1,540
2014	Stafford TP	76,691	17.0¢	\$422	154,873	17.0¢	\$426
	Pumping	176,601	15.9¢	\$967	367,831	16.2¢	\$1,009
	Other*	48,286	21.8¢	\$363	96,516	22.0¢	\$360
		301,578	17.1¢	\$1,721	619,220	17.3¢	\$1,787
2013	Stafford TP	85,275	16.2¢	\$476	156,817	13.7¢	\$287
	Pumping	102,855	22.5¢	\$724	310,446	15.1¢	\$719
	Other*	51,648	28.4¢	\$458	100,576	24.6¢	\$392
		239,779	21.5¢	\$1,666	567,839	16.4¢	\$1,453

*Other includes West Marin Facilities

8. Water Conservation Update

	Month of August 2014	Fiscal Year to Date	Program Total to Date
High Efficiency Toilet (HET) Rebate (\$100 each)	31	50	3,003
Retrofit Certificates Filed	26	59	5,088
Cash for Grass Rebates Paid Out	15	28	589
Washing Machine Rebates	18	33	6,477
Water Smart Home Survey	25	49	1,805

9. Utility Performance Metric

<u>SERVICE DISRUPTIONS</u>	August No. of Customers Impacted
PLANNED	
Duration Between 0.5 and 4 hours	22
Duration Between 4 and 12 hours	9
Duration Greater than 12 hours	
UNPLANNED	
Duration Between 0.5 and 4 hours	26
Duration Between 4 and 12 hours	43
Duration Greater than 12 hours	55

<u>SERVICE LINES REPLACED</u>	August
Polybutylene	27
Copper (Replaced or Repaired)	4

NORTH MARIN WATER DISTRICT

Summary of Complaints & Service Orders August 2014

9/9/2014

Type	Aug-14	Aug-13	Action Taken August 2014
<u>Consumers' System Problems</u>			
Service Line Leaks	29	16	Notified Consumer
Meter Leak Consumer's Side	0	0	~
House Plumbing	0	0	~
Noisy Plumbing	0	0	~
Seepage or Other	0	0	~
House Valve / Meter Off	7	7	Turned Back On
Nothing Found	5	8	Notified Consumer
Low Pressure	1	0	Pressure @ 68 PSI. Faucets clogged.
High Pressure	0	1	~
Water Waster Complaints	0	0	~
Total	42	32	
<u>Service Repair Reports</u>			
Register Replacements	0	0	~
Meter Replacement	2	2	Replaced
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	6	5	Notified Consumer
Misc. Field Investigation	5	4	Notified Consumer
Total	14	11	
<u>Leak NMWD Facilities</u>			
Main-Leak	1	0	Repaired
Mains-Nothing Found	0	0	~
Mains-Damage	0	0	~
Service- Leak	17	6	Repaired
Services-Nothing Found	7	1	Notified Consumer
Service-Damaged	0	0	~
Fire Hydrant-Leak	2	2	Repaired
Fire Hydrants-Nothing Found	0	0	~
Fire Hydrants-Damaged	0	2	~
Meter Replacement	0	0	~
Meters-Leak	0	0	~
Meters-Nothing Found	0	0	~
Meters Damaged	0	0	~
Washer Leaks	11	4	Replaced
Total	38	15	
<u>High Bill Complaints</u>			
Consumer Leaks	4	12	Notified Consumer
Meter Testing	0	0	~
Meter Misread	8	7	Notified Consumer
Nothing Found	14	34	Notified Consumer
Projected Consumption	0	0	~
Excessive Irrigation	0	6	~
Total	26	59	

NORTH MARIN WATER DISTRICT

Summary of Complaints & Service Orders August 2014

9/9/2014

<u>Type</u>	<u>Aug-14</u>	<u>Aug-13</u>	<u>Action Taken August 2014</u>
<u>Low Bill Reports</u>			
Meter Misread	0	0	~
Stuck Meter	1	0	Replaced
Nothing Found	1	0	Notified Consumer
Projected Consumption	0	0	~
Minimum Charge Only	0	0	~
Total	2	0	
<u>Water Quality Complaints</u>			
Algal Bloom/GAC	~	35	
Taste and Odor	1	2	Customer reported odor in water. (Fig Tree Ln) All results normal for NMWD water. Customer was advised of results.
Color	1	2	Customer reported discolored water. (Monte Vista) When lab staff arrived, water was clear. Advised customer to call back if it happened again. Customer reported water was still clear.
Turbidity	0	0	~
Suspended Solids	0	0	~
Other	2	0	Customer wanted water tested for lead. (Shields Ln) All results normal for NMWD water. Customer notified of results.
Total	4	39	
TOTAL FOR MONTH:	126	156	-19%

Fiscal YTD Summary

Consumer's System Problems	73	62	18%	Increase In Consumer Srvc Line/Lks
Service Repair Report	22	30	-27%	Decrease In Misc Field Investigation
Leak Complaints	84	64	31%	Increase Service Leaks
High Bill Complaints	61	89	-31%	Decrease In Nothing Found
Low Bills	3	0	0%	~
Water Quality Complaints	12	42	-71%	Decrease In Taste & Odor
Total	255	287	-11%	

Change Primarily Due To

NORTH MARIN WATER DISTRICT

Summary of Complaints & Service Orders August 2014

9/9/2014

<u>Type</u>	<u>Aug-14</u>	<u>Aug-13</u>	<u>Action Taken August 2014</u>
<u>"In House" Generated and Completed Work Orders</u>			
<u>Check Meter:</u> possible consumer/District leak, high bill, flooded, need read, etc.	279	172	
<u>Change Meter:</u> leaks, hard to read	8	0	
<u>Possible Stuck Meter</u>	0	0	
<u>Repair Meter:</u> registers, shut offs	0	0	
<u>Replace Boxes/Lids</u>	0	0	
<u>Hydrant Leaks</u>	0	0	
<u>Trims</u>	11	13	
<u>Dig Outs</u>	53	72	
<u>Letters to Consumer:</u> meter obstruction, trims, bees, gate access, etc.	0	0	
<u>Misc:</u> locate meter, get meter number, cross connection follow ups, kill service, etc.	0	0	
	<u>351</u>	<u>257</u>	

Bill Adjustments Under Board Policy:

August 14 vs. August 13

Aug-14	19	\$6,063
Aug-13	41	\$9,299

Fiscal Year to Date vs. Prior FYTD

14/15 FYTD	37	\$11,467
13/14 FYTD	72	\$16,756

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MEMORANDUM

To: Board of Directors

September 12, 2014

From: David L. Bentley, Auditor-Controller 

Subj: Auditor-Controller's Monthly Report of Investments for August 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 \$13,369,085 and a market value of \$13,377,980. During August the cash balance decreased by \$1,638,685, due primarily to expenditure of \$1.8M on the Aqueduct Energy Efficiency Project. The market value of securities held increased by \$2,474 during the month. The ratio of total cash to budgeted annual operating expense, excluding the \$3,332,395 unexpended balance of the Bank of Marin loan, stood at 73%, up 1% from the prior month.

At August 31, 2014, 37% of the District's Portfolio was invested in California's Local Agency Investment Fund (LAIF), 28% in Time Certificate of Deposits, 16% in Corporate Medium Term Notes, and 15% in US Treasury Notes. The weighted average maturity of the portfolio was 278 days, compared to 198 days at the end of July. The LAIF interest rate for the month was 0.26%, compared to 0.24% the previous month. The weighted average Portfolio rate was 0.47%, compared to 0.39% the previous month. Including interest paid by Black Point Partners on the StoneTree Golf Club Recycled Water Facilities Loan, the District earned \$8,821 in interest revenue during August, with 47% earned by Novato Water, 48% earned by Recycled Water (by virtue of the Black Point Partners loan) and the balance distributed to the other improvement districts.

Given that 37% of the District's Investment Portfolio is invested in LAIF, it is important to monitor the financial health of the State Treasury. State Controller John Chiang's August report on California's financial position stated:

"If not for a one-time transfer of sales tax revenues to local governments (an audit revealed that the State had underpaid local governments for Public Safety & Local Revenue Realignment), August revenues closely tracked budget projections. As Californians enjoy this period of economic stability, we can actively work to sustain it by continuing to pay down debt accumulated during the Great Recession, undo the accounting gimmicks sprinkled throughout past budgets, and get serious about addressing the State's unfunded retiree health care liability."

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

Type	Description	S&P Rating	Purchase Date	Maturity Date	Cost Basis ¹	8/31/2014 Market Value	Yield ²	% of Portfolio ³
LAIF	State of CA Treasury	A	Various	Open	\$4,957,283	\$4,958,764	0.26%	37%
Time Certificate of Deposit								
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%
TCD	Key Bank	n/a	3/19/14	3/21/16	248,000	248,000	0.45%	2%
TCD	Barclays Bank	n/a	4/15/14	4/15/16	248,000	248,000	0.55%	2%
TCD	Americanwest Bank	n/a	5/30/14	5/31/16	249,000	249,000	0.50%	2%
TCD	Enerbank	n/a	6/30/14	6/30/16	249,000	249,000	0.65%	2%
TCD	Investors Bank	n/a	7/21/14	7/21/16	249,000	249,000	0.70%	2%
TCD	Comenity Capital Bank	n/a	8/18/14	8/18/16	249,000	249,000	0.80%	2%
					\$3,724,000	\$3,724,000	0.65%	28%
US Treasury Notes								
Treas	1,000 - 3.13%	n/a	3/26/14	6/15/16	\$999,090	\$998,870	0.55%	7%
Treas	1,000 - 3.13%	n/a	8/4/14	9/30/16	\$1,007,427	\$1,007,690	0.64%	8%
					\$2,006,516	\$2,006,560	0.60%	15%
Corporate Medium Term Notes								
MTN	General Electric	AA+	1/29/13	10/9/15	\$1,001,640	\$1,003,990	0.70%	7%
MTN	Toyota Motor Credit	AA-	5/14/13	7/17/15	1,003,264	1,008,100	0.51%	8%
					\$2,004,904	\$2,012,090	0.60%	15%
Other								
Agency	Marin Co Treasury	AA+	Various	Open	\$528,095	\$528,095	0.22%	4%
Bond	Olema G.O. Bond	A+	5/31/91	1/1/15	3,918	4,103	5.00%	0%
Other	Various	n/a	Various	Open	144,369	144,369	0.00%	1%
TOTAL IN PORTFOLIO					\$13,369,085	\$13,377,980	0.47%	100%

Weighted Average Maturity = 278 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 August 31, 2014.

Interest Bearing Loans	Loan Date	Maturity Date	Original Loan Amount	Principal Outstanding	Interest Rate
Black Point Partners-BPGL	6/30/06	2/28/24	\$3,612,640	\$2,104,260	2.40%
Employee Housing Loans (7)	Various	Various	1,249,200	1,249,200	Contingent
Employee Computer Loans (2)	Various	Various	4,464	339	1.46% (avg)
TOTAL INTEREST BEARING LOANS			\$4,866,304	\$3,353,799	

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

6

MEMORANDUM

To: Board of Directors

September 12, 2014

From: Chris DeGabriele, General Manager *CD*

Subj: Nomination of David Bentley to Serve as Board Member of ACWA Region 1

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

Auditor-Controller David Bentley is an active member of ACWA Region 1. The Region 1 Board is seeking candidates to fill a Board Member vacancy for the remainder of the 2014-2015 term. The Region 1 Board meets four times per year, two of which meetings occur at the ACWA semi-annual general conference. David is willing to serve as a Board member, and as he already attends the meetings, there would be no additional cost to the District.

A resolution and ACWA nomination form accompanies this memorandum.

Recommendation:

Approve Resolution 14-XX placing in nomination David Bentley as a member of the ACWA Region 1 Board.

Approved by GM *CD*Date *9/12/2014*

RESOLUTION NO. 14-XX

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE NORTH MARIN WATER DISTRICT PLACING IN NOMINATION DAVID BENTLEY AS A MEMBER OF THE ASSOCIATION OF CALIFORNIA WATER AGENCIES REGION 1 BOARD

WHEREAS, The Board of Directors of the North Marin Water District (Board) does encourage and support the participation of its members in the affairs of the Association of California Water Agencies (ACWA);

WHEREAS, David Bentley has indicated a desire to serve as a Board member of ACWA Region 1.

NOW, THEREFORE, BE IT RESOLVED THAT THE BOARD:

Does place its full and unreserved support in the nomination of David Bentley for the Board of ACWA Region 1.

Does hereby determine that the expenses attendant with the service of David Bentley in ACWA Region 1 shall be borne by the North Marin Water District.

* * * * *

I hereby certify that the foregoing is a true and complete copy of a resolution duly and regularly adopted by the Board of Directors of NORTH MARIN WATER DISTRICT at a regular meeting of said Board held on the sixteenth day of September 2014, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

Katie Young, District Secretary
North Marin Water District


(SEAL)

7

MEMORANDUM

To: Board of Directors

September 12, 2014

From: Dianne Landeros, Accounting/HR Supervisor Subj: CalPERS Resolution to Reduce District Contribution
t:\finance\memos\bod pers employee contribution 2014.docx**RECOMMENDED ACTION:** Approve CalPERS Resolution**FINANCIAL IMPACT:** Reduce the District paid Retirement contribution by 1.6%, approximately \$65,000¹ annual savings

On December 28, 2012, the NMWD Employee Association approved a labor agreement (Memorandum of Understanding) with the District. Section 12 (Retirement) of the MOU provides that effective October 1, 2013 and on each subsequent October 1 through October 1, 2016, employees will contribute an additional 1.6% of salary toward the cost of CalPERS retirement benefits, until employees are paying a total of 8% toward the cost of CalPERS retirement benefits.

Attached is CalPERS required Resolution for Employer Paid Member Contributions to reduce the District paid employee contribution to 3.2% (from 4.8% currently) effective October 1, 2014.

Recommendation

Approve the attached resolution reducing the District's CalPERS contribution to 3.2% effective October 1, 2014.

¹ Calculated: Per overhauled spreadsheet (PPE 9/15/14) PERS cost = \$852,335 at 4.8% less \$787,726 at 3.2%

Approved by GM LDDate 9/12/2014

RESOLUTION 14-XX

**RESOLUTION OF THE BOARD OF DIRECTORS OF
NORTH MARIN WATER DISTRICT
FOR EMPLOYER PAID MEMBER CONTRIBUTIONS**

WHEREAS: The Board of Directors of the North Marin Water District has the authority to implement Government Code Section 20691;

WHEREAS: The Board of Directors of the North Marin Water District has a written labor agreement which specifically provides for the normal member contributions to be paid by the employer;

WHEREAS: One of the steps in the procedure to implement Section 20691 is the addition by the Board of Directors of the North Marin Water District of a Resolution to commence said Employer Paid Member/Contributions (EPMC);

WHEREAS: The Board of Directors of the North Marin Water District has identified the following conditions for the purpose of its election to pay EPMC:

- This benefit shall apply to all employees of North Marin Water District.
- This benefit shall consist of paying 3.2% of the normal member contributions as EPMC.
- The effective date of this Resolution shall be October 1, 2014.

NOW, THEREFORE, BE IT RESOLVED:

That the Board of Directors of the North Marin Water District elects to pay EPMC, as set forth above.

Dated at Novato, California
September 16, 2014

Dennis Rodoni President
North Marin Water District

* * * * *

I hereby certify that the foregoing is a true and complete copy of a resolution duly and regularly adopted by the Board of Directors of NORTH MARIN WATER DISTRICT at a regular meeting of said Board held on the 16th day of September 2014 by the following vote:

AYES:
NOES:
ABSENT:
ABSTAINED:

Katie Young, District Secretary
North Marin Water District

(SEAL)

8

MEMORANDUM

To: Board of Directors
 From: Drew McIntyre, Chief Engineer
 Subject: StoneTree Golf, LLC Assignment Agreement

September 12, 2014

Z:\Engineering\Folders by Job No\2400 jobs\2493\Assignment 2014\2493 Assignment BOD Memo 9-2014.docx

RECOMMENDED ACTION: That the Board authorize the General Manager to execute the Assignment Agreement subject to payment of District costs associated with processing this request and confirmation from District legal counsel that the assignee has legal capacity to execute the Assignment Agreement.

FINANCIAL IMPACT: None.

Black Point Partnership LP was the original signatory to the 2005 Recycled Water Service Agreement and Amendment for Black Point Golf Links (aka StoneTree Golf Course). Black Point executed a Deed of Trust on the Golf Course in favor of the District to secure its obligations under the Water Service Agreement (the "Deed of Trust"). In June 2011, the Board approved an assignment agreement wherein Black Point Partnership assigned all of its rights and obligations under the Recycled Water Service Agreement and Deed of Trust to a new entity called StoneTree Golf, LLC. StoneTree has consistently met their financial obligations by always paying the water bills and loan repayment on time.

Ms. Ann Mulroy has informed NMWD staff that StoneTree Golf Course, LCC (Assignor) is transferring its interest in the Golf Course to a new entity affiliated with The Bay Club Company (see letter in Attachment 1). The Assignment Agreement is provided as Attachment 2. District legal counsel has reviewed all pertinent documentation and prepared the Assignment Agreement.

All of the obligations under the existing Recycled Water Service Agreement and Deed of Trust run with the property and will be binding on the assignee. It appears a new entity is being formed by The Bay Club to be the assignee. District Legal Counsel has advised that proper documentation will need to be reviewed to ensure the new entity has the legal capacity to execute the Assignment Agreement.

RECOMMENDATION

That the Board authorize the General Manager to execute the Assignment Agreement subject to payment of District costs associated with processing this request and confirmation from legal counsel that the assignee has legal capacity to execute the Assignment Agreement.



STONE TREE
GOLF CLUB

September 3, 2014

Mr. Chris DeGabriele
North Marin Water District
999 Rush Creek Place
Novato, CA 94948

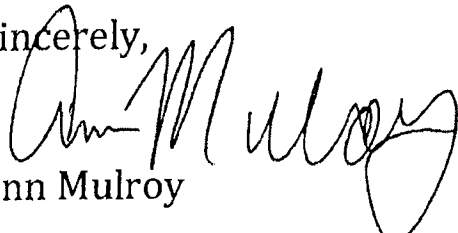
Dear Chris,

Please be advised that StoneTree Golf, LLC (StoneTree Golf Club) is being transferred to BC Equity Ventures, LLC (Bay Club). The Bay Club was founded in 1977 and is the owner and operator of eleven locations across six active lifestyle campuses throughout California.

Pursuant to the Agreement for Recycled Water Service for StoneTree Golf, LLC the purpose of this letter is to formally request the assignment of the above reference Agreement from StoneTree Golf, LLC to BC Equity Ventures, LLC.

Please contact me with any questions.

Sincerely,



Ann Mulroy

ASSIGNMENT
OF
RECYCLED WATER SERVICE AGREEMENT, WATER SERVICE AGREEMENT
AND DEED OF TRUST FOR STONETREE GOLF CLUB

THIS ASSIGNMENT is made and entered into as of September ____, 2014, among NORTH MARIN WATER DISTRICT ("District"), STONETREE GOLF, LLC, a California limited liability company ("Assignor"), and The Bay Club Company, a Delaware limited liability company ("Assignee"), an affiliate of BC EQUITY VENTURES, LLC, a Delaware limited liability company ("BC Equity").

WHEREAS, District and non-party Blackpoint Property Partners L.P., a California limited partnership aka Black Point Partnership, L.P. ("Blackpoint") entered into that certain Agreement for Recycled Water Service To Black Point Golf Links dated October 4, 2005 (the "Recycled Water Service Agreement"), providing for construction of water facilities to serve that certain project known as Black Point Golf Links (also known as StoneTree Golf Course), Marin County Assessor's Parcel Numbers 157-470-20 and 157-470-22 (the "Golf Course"); and

WHEREAS, as security for its obligations under the Recycled Water Service Agreement, Blackpoint executed that certain Deed of Trust dated November 8, 2005 with Blackpoint as Trustor, in favor of District, as Beneficiary ("Deed of Trust"). The Deed of Trust was recorded as Document Number 2005-0087455 in the Official Records of the County of Marin.

WHEREAS, Blackpoint, Assignor and District entered into that certain Assignment of Water Service Facilities Construction Agreement for Black Point Golf Links dated June 22, 2011 whereby Blackpoint transferred all of its right, title and interest in and to the Golf Course to Assignor, and assigned all of its rights and obligations under the Recycled Water Services Agreement, Deed of Trust and the Water Service Application (as defined below) to Assignor.

WHEREAS, Assignor now desires to transfer all of its right, title and interest in and to the Golf Course to Assignee; and

WHEREAS, pursuant to Section 14 of the Recycled Water Service Agreement, Assignor desires to assign all of its rights and obligations thereunder to Assignee, together with all rights and obligations under that certain application for water service dated November 30, 1998, on file with the District (the "Water Service Application"), and together with all obligations under the Deed of Trust;

WHEREAS, Assignee accepts the assignment of the Recycled Water Service Agreement, the Water Service Application, and the Deed of Trust, and agrees to assume all obligations of Assignor under such documents. District consents to these assignments, subject to the terms and conditions set forth herein.

NOW THEREFORE, the parties hereto agree as follows:

1. Assignor assigns to Assignee all of its rights and obligations under the Recycled Water Service Agreement, the Water Service Application, and the Deed of Trust, and Assignee accepts such assignment and assumes all obligations of such documents as though the original signator thereto. District consents to such assignments, subject to full execution of this Assignment.

2. Effective upon full execution of this Assignment, Assignor transfers to the fullest extent possible, all interest and entitlement to funds advanced to the District by Blackpoint and thereafter assigned to Assignor under the Recycled Water Service Agreement and Water Service Application to the credit of Assignee.

3. This Assignment shall inure to the benefit of, and be binding on, the successors and assigns of the parties.

4. This Assignment may be executed in any number of counterparts, each of which shall be deemed an original. The counterparts shall together constitute but one agreement

IN WITNESS WHEREOF, upon the date and year first hereinabove written, the respective parties hereto have executed this Assignment.

NORTH MARIN WATER DISTRICT
"District"

By: _____

Dennis Rodoni, President

ATTEST:

Katie Young, Secretary

(SEAL)

STONETREE GOLF, LLC

A California limited liability corporation
"Assignor"

By: _____

Ann Mulroy, Manager

(SEAL)

THE BAY CLUB COMPANY

A Delaware limited liability corporation
"Assignee"

By: _____

Victor Woo, EVP, Operations

(SEAL)

NOTES

If the Assignor executing this assignment is a corporation, a certified copy of the bylaws or resolutions of the Board of Directors of said corporation authorizing designated officers to execute this agreement shall be provided. If the Assignee executing this assignment is a limited liability company, a certified copy of the operating agreement or resolutions of the Board of Directors, if applicable, of said limited liability company authorizing designated managers or other persons to execute this agreement shall be provided.

This agreement must be executed by the Assignor and delivered to the District within thirty (30) days after it is authorized by the District's Board of Directors. If this agreement is not signed and returned within thirty days, it shall automatically be withdrawn and void. If thereafter a new agreement is requested, it shall incorporate the Initial Charges (connection fees) and cost estimates then in effect.

ALL SIGNATURES MUST BE ACKNOWLEDGED BEFORE A NOTARY PUBLIC.

9

MEMORANDUM

To: Board of Directors
From: Ryan Grisso, Water Conservation Coordinator *RG*
Subject: California Pool and Spa Association (CPSA) Response
\\Nmwd\sr\1\water conservation\Memos to Board\CPSA Response.doc

September 12, 2014

RECOMMENDED ACTION: Approve Letter Response

FINANCIAL IMPACT: None

On September 10, 2014, NMWD received a letter from the CPSA requesting NMWD reconsider prohibitions on pool refilling imposed in NMWD Emergency Conservation Ordinance No 28 and 29 (Attachment 1). NMWD staff and legal counsel have reviewed the request from the CPSA and have determined that no substantive changes to the current water use restrictions are needed, including prohibitions on filling new or existing swimming pools.

A letter response has been drafted (Attachment 2), stating NMWD's position, including a discussion of the variance procedure in the Ordinances, reference to the pool cover rebate, and basis for imposing prohibitions on pool refilling consistent with NMWD's Water Shortage Contingency Plans and a series of State Orders in 2014.

RECOMMENDATION

Board authorize General Manager to send response letter to the CPSA.



CPSA

California Pool & Spa Association

September 9, 2014

Chris DeGabriele
General Manager
North Marin Water District
PO Box 146
Novato, CA 94948-0146

RECEIVED
SEP 10 2014
North Marin Water District

Dear General Manager DeGabriele:

On behalf of the California Pool & Spa Association (CPSA) and a number of its members who do business in Novato and Marin County, I am writing to request the North Marin Water District amend the recently enacted drought restrictions to make them consistent with those passed by the State Water Resources Control Board on July 15, 2014.

On April 1, 2014, the North Marin Water District voted to adopt Emergency Water Conservation Ordinance Numbers 28 & 29 (see attachment, Exhibit A & B) in response to the need to conserve precious water resources during California's historic ongoing drought. Included in the list of water restrictions was the following prohibition: "[West Marin Service Area] prohibits refilling a swimming pool drained after July 1, 2014, and initial filling of a swimming pool after April 1, 2014... [Novato Service Area] prohibits refilling a swimming pool drained after July 1, 2014."

The District's enactment of mandatory water use restrictions specifically reflects the mounting wave of pressure that engulfed California after media reports of a depleted water supply. Although the CPSA can support and endorse much of what is contained in the restrictions above, we must take issue with the item in those restrictions relating to the prohibition of district water for filling and refilling new and existing swimming pools.

The North Marin Water District pool filling and refilling prohibition is contrary to any of the restrictions contained in the Governor's Emergency Proclamation of January 17th and the Governor's subsequent executive order aimed primarily at outdoor water use issued on April 25, 2014. Additionally, this restriction goes substantially beyond the emergency regulations approved by the State Water Resources Control Board (SWRCB), which voted on July 15 to enact emergency regulations that prohibit certain outdoor water use and requires urban water districts to implement mandatory outdoor water restrictions. The SWRCB restrictions relative to pools are limited in item (4) in the text of the emergency regulations (see attachment, Exhibit C) to only prohibit: "(4) the use of potable water in a fountain or other decorative water feature, except where the water is part of a recirculating system."

There are select circumstances when filling or refilling a swimming pool is necessary for health, safety, or maintenance purposes. For example, to forbid a swimming pool owner from filling a new or existing empty swimming pool imposes significant safety hazards that can result in severe injury or even death. To make matters worse, such a restriction exposes pool owners to serious and costly lawsuits. In addition, a swimming pool left empty can result in a warped shell and cause significant or irreparable damage. From a health perspective, there are also circumstances that merit the refilling of a pool. While the CPSA does not stand behind waste or dump-and-fill practices, it can on seldom occasions be necessary to drain a swimming pool infested with mosquitos or bacteria.

Protect • Educate • Promote

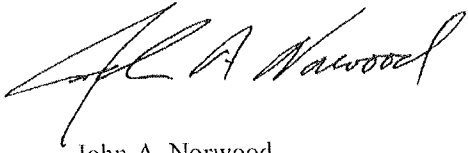
Moreover, CPSA opposes and would caution against water restrictions that discriminate against individual businesses, rather than adopting restrictions that encourage water saving by all businesses and individuals across the board. Once the District begins to go down the road of business specific water-use restrictions, it puts itself in the position of deciding which businesses or industries might be forced to close their doors. For example, prohibiting the use of district water for maintaining a nursery, operating a sod farm, or washing vehicles on a car sales lot all become public policy options with extreme social and economic implications. The swimming pool and spa business has a significant financial impact on the economy in Marin County, not including the multiplier affect relative to the cost of weekly pool service, backyard furniture, equipment and repairs. In addition, the economic impact for newly constructed pools is estimated at \$1 million dollars per acre foot of water. With the exclusion of high-tech, no other industry can claim such a return on the minimal use of water and the significant economic impact. Furthermore, materials and supplies are mostly produced locally and construction derives through many local small businesses.

Additionally, the District's actions are not supported by the facts. It is undisputed that swimming pools use very little water. This is not only the case with existing swimming pools but also applies to newly constructed pools. An average swimming pool saves over 30,000 gallons of water annually as compared to the same area covered by a traditional lawn landscaping. This number can be greatly increased by use of a simple bubble cover, which has been scientifically proven to eliminate up to 90 percent of evaporative water loss. Even newly constructed pools save well over 10,000 gallons of water in the year it is constructed and filled, as well as 30,000 gallons each year thereafter. Customers of our members that decide to install a pool in their backyard are making a conscious decision to install a water efficient backyard. The average deck area surrounding a swimming pool is 1.5 to 3 times the surface area of the pool which replaces areas otherwise planted by water guzzling lawns. Therefore, the District's prohibition of filling swimming pools will not only have a devastating impact on local small and large business but also prevent some consumers who willingly wish to transform their backyard into a water efficient landscape by installing a swimming pool. At the same time, the District's only restriction on water guzzling lawns is limited to an automatic shut-off nozzle attached to a hose in order to prevent run-off. By comparison, swimming pools are much more water efficient.

The CPSA and its members are trying to be a part of the solution in this year's drought. Despite the fact that swimming pools use substantially less water than the lawns they typically replace, there is still more that swimming pool and spa owners can do to contribute to conservation efforts. That is why the CPSA has launched a statewide campaign – dubbed “Let's Pool Together” – to provide pool and spa owners with additional steps they can take to save water during this severe drought. In fact, our campaign has been referenced by hundreds of pool businesses across the state and has provided consumers with additional conservation tips that allow them to be part of the solution. These efforts have proven successful and resulted in a campaign partnership with the state's Save Our Water campaign – a statewide program headed by the Association of California Water Agencies and the California Department of Water Resources aimed at helping Californians reduce their everyday water use.

The swimming pool industry harbors a myriad of regional jobs, generates substantial revenue for local governments, and allows thousands of Californians to save water by replacing a water-intensive landscape with a water efficient pool. For all the aforementioned reasons, we are requesting that the North Marin Water District reconsiders its prohibition on filling new swimming pools and/or provide CPSA and some of its local members an opportunity to meet with the District and staff to discuss this issue. Thank you for consideration of this request.

Sincerely,

A handwritten signature in black ink, appearing to read "John A. Norwood". The signature is fluid and cursive, with the first name "John" being the most prominent.

John A. Norwood
President, CPSA

cc: Dennis Rodoni, President, North Marin Water District
Jack Baker, Vice-President/Director, North Marin Water District
Rick Fraites, Director, North Marin Water District
Stephen Petterle, Director, North Marin Water District
John C. Schoonover, Director, North Marin Water District
Mike Geremia, President, Geremia Pools

EMERGENCY WATER CONSERVATION ORDINANCE No. 28

EXHIBIT A

- (c) failure to put to reasonable beneficial use any water withdrawn from the District's system.

Section 6. Prohibition of Non-Essential Use of Water

(a) No water furnished by the District shall be used for any purpose declared to be non-essential by this ordinance for the following stages of action as determined by the Board of Directors after considering specific triggers consistent with the Water Shortage Contingency Plan for the Greater Novato Service Area.

Stage 1 - Voluntary Stage (up to 20% reduction). Achieve up to 20% reduction in water usage compared to the corresponding billing period in 2013 by encouraging voluntary rationing, enforcement of water wasting regulations and water conservation Regulation 15, requesting customers to make conscious efforts to conserve water, request restaurants to serve water only upon request, encourage private sector to use alternate source and encourage night irrigation.

- (b) The following uses are declared to be non-essential from and after April 1, 2014:

- (1) washing sidewalks, driveways, parking areas, tennis courts, patios or other exterior paved areas except by the Novato Fire Protection District or other public agency for the purpose of public safety;
- (2) refilling a swimming pool drained after July 1, 2014;
- (3) non-commercial washing of privately-owned motor vehicles, trailers and boats except from a bucket and except that a hose equipped with a shut-off nozzle may be used for a quick rinse.

Stage 2 - Moderate Mandatory Rationing (up to 30% reduction)

(c) From and after the date that the Board of Directors, by resolution, determines that the following additional uses are declared to be non-essential:

- (1) any use of water from a fire hydrant except for fighting fires, human consumption, essential construction needs or use in connection with animals;
- (2) watering of any lawn, garden, landscaped area, tree, shrub or other plant except from a handheld hose equipped with an automatic shut-off nozzle, container or drip irrigation system except overhead sprinkler irrigation can be used if customer maintains an overall 30% reduction in water use compared to the corresponding billing period in 2013 (Customers using less than 300 gallons per day are permitted to water their landscapes without a required 30% reduction), and properly operates the irrigation system in a non-wasteful manner between the hours of 7:00 p.m. and 9:00 a.m. the next day. If sprinkler water is used in a wasteful manner, the General Manager may prohibit sprinkling by that customer.
- (3) watering any portion of a golf course except the tees and greens except as provided in Section 10 hereof or where private well or recycled water supply is used;
- (4) use of water for dust control at construction sites;
- (5) initial filling of any swimming pool for which application for a building permit was made after April 1, 2014;
- (6) use by a vehicle washing facility in excess of up to 30% less than the amount used by it during the corresponding billing period in 2013. If the facility was not operating in 2013, an assumed amount shall be computed by the District from its records. This subsection shall not apply to any facility that recycles water in a manner satisfactory to the District.

EMERGENCY WATER CONSERVATION ORDINANCE No 29

EXHIBIT B

after considering specific triggers consistent with the Water Shortage Contingency Plan for the West Marin Service Area.

Stage 1 - Voluntary Stage (15% reduction). Achieve 15% reduction in water usage compared to the corresponding billing period in 2013 by encouraging voluntary rationing, enforcement of water wasting regulations and water conservation Regulation 17, requesting customers to make conscious efforts to conserve water, request restaurants to serve water only upon request, encourage private sector to use alternate source and encourage night irrigation.

Stage 2 - Mandatory Stage (25% reduction)

(b) The following uses are declared to be non-essential from and after July 1, 2014:

- (1) washing sidewalks, driveways, parking areas, tennis courts, patios or other exterior paved areas except by the Marin County Fire Department or other public agency for the purpose of public safety;
- (2) refilling a swimming pool drained after July 1, 2014;
- (3) non-commercial washing of privately-owned motor vehicles, trailers and boats except from a bucket and except that a hose equipped with a shut-off nozzle may be used for a quick rinse.
- (4) Request restaurants to serve water only upon request.

(c) The following additional uses are declared to be non-essential from and after July 1, 2014:

- (1) any use of water from a fire hydrant except for fighting fires, human consumption, essential construction needs or use in connection with animals;
- (2) watering of any lawn, garden, landscaped area, tree, shrub or other plant except from a handheld hose equipped with an automatic shut-off nozzle, container or drip irrigation system except overhead sprinkler irrigation can be used if customer maintains an overall 25% reduction in water use compared to the corresponding billing period in 2013, (customers using less than 200 gallons per day are permitted to water their landscape without a 25% reduction) and properly operates the irrigation system in a non-wasteful manner between the hours of 7:00 p.m. and 9:00 a.m. the next day. If sprinkler water is used in a wasteful manner, the General Manager may prohibit sprinkling by that customer.
- (3) use of water for dust control at construction sites;
- (4) initial filling of any swimming pool for which application for a building permit was made after April 1, 2014;
- (5) use by a vehicle washing facility in excess of 25% less than the amount used by it during the corresponding billing period in 2013. If the facility was not operating in 2013, an assumed amount shall be computed by the District from its records.
- (6) any non-residential use in excess of 25% less than the amount used by the customer during the corresponding billing period in 2013. If connection to the District system was not in existence or use in 2013, an assumed amount will be computed from the District's records.
- (7) Intertie deliveries to Inverness Public Utilities District (IPUD), except for critical needs as determined by the General Manager
- (8) Deliveries to customers outside the service area except as needed for human

EXHIBIT C

PROPOSED TEXT OF EMERGENCY REGULATIONS

Article 22.5. Drought Emergency Water Conservation

Sec. 863 Findings of Drought Emergency

(a) The State Water Resources Control Board finds as follows:

(1) On January 17, 2014, the Governor issued a proclamation of a state of emergency under the California Emergency Services Act based on drought conditions;

(2) On April 25, 2014, the Governor issued a proclamation of a continued state of emergency under the California Emergency Services Act based on continued drought conditions;

(3) The drought conditions that formed the basis of the Governor's emergency proclamations continue to exist;

(4) The present year is critically dry and has been immediately preceded by two or more consecutive below normal, dry, or critically dry years; and

(5) The drought conditions will likely continue for the foreseeable future and additional action by both the State Water Resources Control Board and local water suppliers will likely be necessary to further promote conservation.

Authority: Wat. Code, § 1058.5.

References: Wat. Code, §§ 102, 104, 105.

Sec. 864 Prohibited Activities in Promotion of Water Conservation

(a) To promote water conservation, each of the following actions is prohibited, except where necessary to address an immediate health and safety need or to comply with a term or condition in a permit issued by a state or federal agency:

(1) The application of potable water to outdoor landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures;

(2) The use of a hose that dispenses potable water to wash a motor vehicle, except where the hose is fitted with a shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use;

(3) The application of potable water to driveways and sidewalks; and

(4) The use of potable water in a fountain or other decorative water feature, except where the water is part of a recirculating system;

(b) The taking of any action prohibited in subdivision (a) of this section, in addition to any other applicable civil or criminal penalties, is an infraction, punishable by a fine of up to five hundred dollars (\$500) for each day in which the violation occurs.

Authority: Wat. Code, § 1058.5.

References: Wat. Code, §§ 102, 104, 105.

PROPOSED TEXT OF EMERGENCY REGULATIONS

Sec. 865 Mandatory Actions by Water Suppliers

(a) The term "urban water supplier," when used in this section, refers to a supplier that meets the definition set forth in Water Code section 10617, except it does not refer to suppliers when they are functioning solely in a wholesale capacity, but does apply to suppliers when they are functioning in a retail capacity.

(b)(1) To promote water conservation, each urban water supplier shall implement all requirements and actions of the stage of its water shortage contingency plan that imposes mandatory restrictions on outdoor irrigation of ornamental landscapes or turf with potable water.

(2) As an alternative to subdivision (b)(1), an urban water supplier may submit a request to the Executive Director for approval of an alternate plan that includes allocation-based rate structures that satisfies the requirements of chapter 3.4 (commencing with section 370) of division 1 of the Water Code, and the Executive Director may approve such an alternate plan upon determining that the rate structure, in conjunction with other measures, achieves a level of conservation that would be superior to that achieved by implementing limitations on outdoor irrigation of ornamental landscapes or turf with potable water by the persons it serves to no more than two days per week.

(c) To promote water conservation, each urban water supplier that does not have a water shortage contingency plan or has been notified by the Department of Water Resources that its water shortage contingency plan does not meet the requirements of Water Code section 10632 shall, within thirty (30) days, limit outdoor irrigation of ornamental landscapes or turf with potable water by the persons it serves to no more than two days per week or shall implement another mandatory conservation measure or measures intended to achieve a comparable reduction in water consumption by the persons it serves relative to the amount consumed in 2013.

(d) In furtherance of the promotion of water conservation each urban water supplier shall prepare and submit to the State Water Resources Control Board by the 15th of each month a monitoring report on forms provided by the Board. The monitoring report shall include the amount of potable water the urban water supplier produced, including water provided by a wholesaler, in the preceding calendar month and shall compare that amount to the amount produced in the same calendar month in 2013. Beginning October 15, 2014, the monitoring report shall also estimate the gallons of water per person per day used by the residential customers it serves. In its initial monitoring report, each urban water supplier shall state the number of persons it serves.

(e) To promote water conservation, each distributor of a public water supply, as defined in Water Code section 350, that is not an urban water supplier shall, within thirty (30) days, take one or more of the following actions:

(1) Limit outdoor irrigation of ornamental landscapes or turf with potable water by the persons it serves to no more than two days per week; or

(2) Implement another mandatory conservation measure or measures intended to achieve a comparable reduction in water consumption by the persons it serves relative to the amount consumed in 2013.

Authority: Wat. Code, § 1058.5.

References: Wat. Code, §§ 102, 104, 105; 350; 10617; 10632.



California is now in the fourth year of a drought! Here are simple tips for pools, spa and hot tub owners to save water and money! As a residential swimming pool, spa or hot tub owner, you are already conserving water compared to what a conventional residential backyard uses. That's right! Swimming pools, spas and hot tubs use less water than the same square footage of a lawn ... by half! And if you add in the pool deck area that would otherwise be grass, the water saved is multiplied.

But there is even more you can do to conserve water simply by following these easy tips.

If you own a pool or in-ground spa:

1. Install a pool cover to reduce water evaporation by as much as 90%.
2. Shut off waterfalls, fountains, and other water features to reduce water loss and evaporation.
3. Check the pool for leaks. Contact your pool service professional for guidance.
4. Minimize splashing or lower the pool's water level to reduce "splashout."
5. Plug the overflow line when the pool is in use.
6. Replace sand and DE filters with cartridge filters that do not require backwashing.
7. Keep your pool clean to reduce frequency of backwashing.
8. If your pool is heated, reduce the water temperature to reduce evaporation.

If you own a hot tub or spa:

1. Keep it covered.
2. Maintain the chemicals to extend water life.
3. Check the equipment for leaks.
4. Drain only when absolutely necessary.
5. Check with your pool service professional for new technology that helps keep the water clean and reduce the need to drain the spa.
6. If you drain your spa, reuse the water to irrigate plants and landscaping.



For more info, visit www.theCPSA.org

LET'S POOL TOGETHER

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HOME

BE WATER WISE!

GET THE FACTS

PRESS

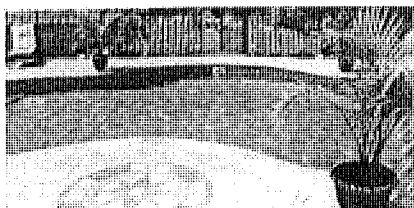
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OTHER RESOURCES

CONTACT

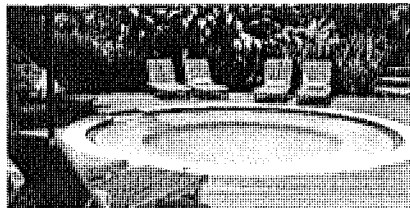


California is facing an unprecedented drought! Pool owners are already saving water. But we can all do more!



TIPS FOR POOL OWNERS

Did you know that pools use less than half the water than an irrigated lawn? But there's more we can do!



TIPS FOR SPA OWNERS

Did you know a bath uses 70 gallons of water? Spas and hot tubs are just as relaxing and save water!



FEATURED PARTNER: SAVE OUR WATER

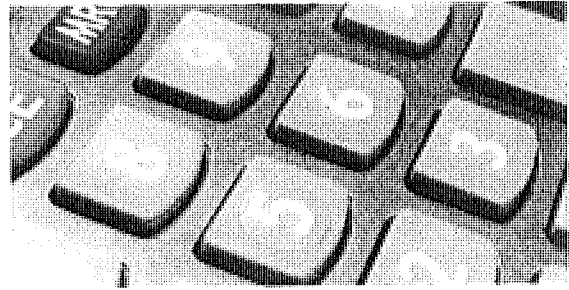
We are pleased to be partnering with the Save Our Water campaign.

Calculate Your Savings

Be Water Wiser!



Save Our WAT



CALCULATE YOUR SAVINGS

Pools and spas use less water than a traditional lawn—even in the year they are first filled! Use this calculator to determine your first-year and annual water savings.

[Learn More](#)



Get the Facts:

Pools, Spas and Hot Tubs Help Conserve Water in Drought

California is facing unprecedented drought conditions. Pool and spa owners and industry representatives are doing their part to conserve.

The pool and spa industry is an important part of our state's economy. From the tens of thousands of small business owners and employees to the millions of dollars in economic output, the pool and spa industry helps keep California solvent.

- Pool construction alone employs hundreds of local residents, requires permit fees and employee payroll taxes be paid, which all help to stimulate local economies.
- In fact, recent studies suggest the local economy receives \$1 million per acre foot of water used to fill a pool.

Districts should not pass restrictions that affect just one industry. When water districts propose regulations affecting just pool and spa owners, they are promoting a policy that will adversely impact just one industry. From builders to suppliers to maintenance workers, the pool and spa industry is composed of local small, often minority-owned, businesses. Imposing such industry-specific regulations will put hundreds of local workers out of business and mean less money for local governments that rely on money from building permits.

Focus on education, not restrictions. The California Pool and Spa Association will provide information that can be shared with customers to ensure they are responsible pool and spa owners. Like many in the industry, CPSA's members are offering incentives for customers to use pool covers and provide leak checks at a discounted rate. CPSA has developed educational materials on reducing water splashing, adjusting equipment settings and other tips for responsible pool and spa ownership. The pool and spa industry is part of the solution, not part of the problem.

Pool and spas are not water wasters. In fact, a well-maintained pool or spa uses less water per day than an irrigated lawn. Most pool designs include more than just the pool itself; wooden or concrete decks also replace traditional landscaping and the need for water.

- Filling pools takes up only a tiny fraction of a region's one-day water usage. A recent study in the Sacramento region showed filling all new pools would result in less than **five percent** of one day's water use for the region.
- Independent studies show that a well-maintained pool uses roughly **half the amount of water** a lawn uses in the same period. Adding in decking and other "hardscaping" around the pool, spa or hot tub increases water savings even more!
- Even building and filling a new pool requires less water than a lawn. On average, water use, including filling, in the first year a pool is installed is 26,250 gallons. An 800 square-foot lawn uses approximately 30,000 gallons per year.
- Average water savings for first year (including filling the pool): **3,750 gallons**
- Average water savings for subsequent years: **18,000 gallons**

(more on reverse side)



For more info, visit www.theCPSA.org

The California Pool and Spa Association Wants To Help

We are all in this drought together and CPSA wants to help your water district spread the word about responsible pool and spa management and conserve water.

Bill Inserts. We can provide you with information for your water district customers on additional water-saving tips, and pool and spa maintenance guides to ensure that, together, we are reaching all water users.

Newsletter Articles. Similarly, we can craft electronic or print newsletter articles for you to include in your next publication to your water district customers about easy-to-do water saving tips for pools and spas.



For more info, visit www.theCPSA.org

DRAFT

September 17, 2014

John A. Norwood
President, California Pool & Spa Association
915L Street, Suite 1110
Sacramento, CA 95814-3705

Re: North Marin Water District Emergency Water Conservation Ordinance
Swimming Pool Restrictions

Dear Mr. Norwood:

Thank you for your letter of September 9, 2014 requesting NMWD reconsider prohibitions on filling swimming pools. The NMWD Board of Directors considered your request at their meeting on September 16th and have determined to make no substantive changes to the current water use restrictions now in place, including the prohibitions on filling new or existing swimming pools with potable water obtained from NMWD.

Section 7 of the NMWD Emergency Water Conservation Ordinances referenced in your letter enables the NMWD General Manager to grant a variance from the water use prohibitions, including filling a swimming pool. Any decision by the General Manager may be appealed to the Board of Directors. To-date, no requests for a variance to fill a swimming pool have been presented to NMWD.

NMWD does appreciate your mention of "bubble covers" to reduce evaporation from swimming pools and offers eligible customers a swimming pool cover rebate.

Actions taken by the NMWD Board of Directors on April 1, 2014 to adopt Emergency Water Conservation Ordinance(s) for the Novato and West Marin Service Area also included declaring a water shortage emergency and enacting the NMWD Water Shortage Contingency Plans for these service areas. Those actions were taken at a noticed public hearing and no objections to the prohibitions on filling swimming pools were raised at that time.

This is a severe drought year. In Novato, only water years 1975/76 and 1976/77 were drier. Stafford Lake in Novato is currently at 29% of total capacity. In West Marin, NMWD water supply is diverted from Lagunitas Creek, a fully appropriated, flow regulated stream, flowing 25% less than normal in this dry year.

The State Water Resources Control Board Emergency Water Conservation Regulations adopted on July 15th specifically direct each urban water supplier to implement all requirements and actions of the stage of its Water Shortage Contingency Plan that imposes mandatory restrictions on outdoor irrigation, but do not limit the authority of the NMWD Board of Directors to enact water use restrictions and prohibitions determined to be necessary to preserve water supply now available, including those set forth in NMWD's Water Shortage Contingency Plans.

Sincerely,

Chris DeGabriele
General Manager

Cc: Carl P.A. Nelson, Bold Polisner Maddow Nelson and Judson
Mike Geremia, President Geremia Pools

CD/kly

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10

MEMORANDUM

To: Board of Directors

September 12, 2014

From: Robert Clark, Operations / Maintenance Superintendent 

Subj: Authorization to Award Contract for Fire Service Testing

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RECOMMENDED ACTION: Authorize General Manager to enter into an agreement with ASTI for test and inspection services for 220 fire service backflow devices

FINANCIAL IMPACT: Not to exceed \$25,000

At the August 16, 2014 Board of Directors meeting, the Board authorized staff to solicit bids from outside testing services to perform backflow testing for 220 District-owned fire services. The bidders were requested to submit their proposals based on a list of specifications to provide test and inspection services for five different device types. In the request, as a reference, staff asked for contractor labor costs to perform repair of failed devices. As a result of reviewing those costs, any repairs identified in the inspection and tests performed by the contractor will be done by NMWD staff.

Of the fourteen companies solicited for testing services, only two responded to our request for proposal with the minimum requirements, and staff has contacted references to establish experience and reliability. Automatic Sprinkler Testing & Inspection Services, Inc. (ASTI), in Vallejo, has provided the more cost-effective proposal, with better project team work history, and a C16 Fire Protection Contractors' License. ASTI has positive reference feedback from their customers. The comparison of testing companies (Attachment A) identifies the criteria used for evaluation. Having both certified backflow testers and a fire protection contractor's license affords ASTI the ability to perform these tests without impacting the operation of the fire service. The original, preliminary estimate of \$20,000 was based on actual contracted labor costs performed by Inspection Services & Fire Protection in FY 2013-14. ASTI's proposal is \$24,745, which is still below that required for District staff to perform the same work.

During the FY 2014/15 budget development process, staff reduced the hours allocated for the backflow program with the intent of including maintenance expenses for the contracted fire service work. However, the budget mistakenly excluded additional funding for the contracted work. Therefore, \$10,000 originally identified for materials when the work was planned to be performed by District staff will not cover the \$25,000 contract fee. Staff will monitor the

Transition and Distribution portion of the Maintenance budget and if necessary will provide an augmentation request at the mid-year budget review.

RECOMMENDATION

Authorize General Manager to enter into an agreement with ASTI for testing and inspection services for 220 fire service backflow devices.

FIRE SERVICE TESTING RESPONDENTS COMPARISON (Final)

Company Name	Automatic Sprinkler Testing & Inspection	Atazz Technical Services
Entry Submitted?	Yes	Yes
Relevant Experience, Expertise & Certifications?	23 yrs as backflow tester; member of USC; all testers are AWWA-certified; licensed C16 Fire Protection Contractor	5 yrs; AWWA backflow tester; no fire
Project Team?	Mike Deschler - 23 yrs; Michelle Deschler - 2.5 years; Matthew Medeiros - 2 yrs	Self
Quality Assurance & Control; Conflicts?	Test kit calibrations; all materials USC-approved	Instrument calibration report
Client References?	Yes	Yes
Contract and Insurance Requirements?	Yes	No
TESTING COSTS		
RPDAs		
4" (x1)	100	120
8" (x1)	125	130
DCDAs		
1" (x1)	60	90
2" (x4)	65	100
2-1/2" (x10)	75	120
4" (x88)	75	120
6" (x118)	105	120
8" (x40)	105	130
10" (x2)	130	130
TOTAL	\$24,745	\$52,010
REPAIR COSTS		
RPDAs		
4" (x1)	\$220/hr	\$85/hr
8" (x1)		
DCDAs		
1" (x1)		
2" (x4)		
2-1/2" (x10)		
4" (x88)		
6" (x118)		
8" (x40)		
10" (x2)		

Note: The following contractors were sent an RFP package, but did not respond: Inspection Services & Fire Protection, Inc.; McCoy Fire Protection, Inc.; Sinclair Plumbing & Fire Protection; Dreier Fire Protection, Inc.; 13-D Fire Systems, Inc.; Alto Fire Protection; Fire King Fire Protection; Fire Technologies; Northern California Fire Protection Services, Inc.; Alpha Fire Suppression; Station 1 Fire Protection; and International Fire Equipment.

11

MEMORANDUM

To: Board of Directors

Date: September 12, 2014

From: Drew McIntyre, Chief Engineer



Subject: Aqueduct Energy Efficiency Project (Reach A-D) – Progress Report No. 1
(Vali Cooper & Associates)

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BOD Memo 9-14.doc

RECOMMENDED ACTION: Information only

FINANCIAL IMPACT: None, information only

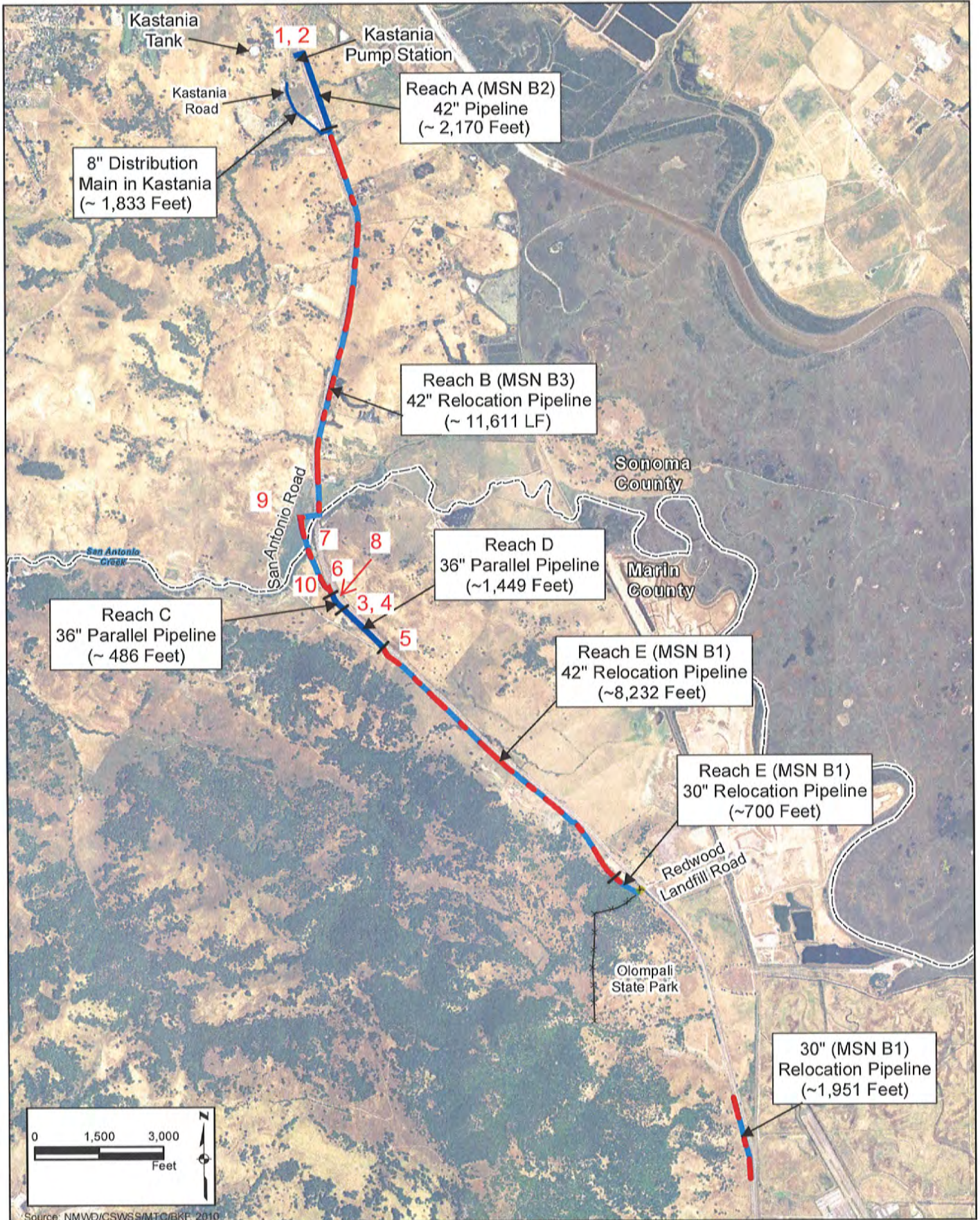
An oral presentation will be provided by Mr. Ken Sinclair, Construction Manager, with Vali Cooper & Associates, regarding current pipeline installation as part of NMWD's progress on the Aqueduct Energy Efficiency Project (Reach A-D). Attached is the first Construction Manager's Progress Report for Board review in preparation of the presentation provided by Vali Cooper & Associates.

**NORTH MARIN WATER DISTRICT
AQUEDUCT ENERGY EFFICIENCY
PROJECT
REACHES A – D / MSN B3**



**NORTH MARIN
WATER DISTRICT**

**CONSTRUCTION MANAGEMENT
NMWD BOARD PROGRESS REPORT NO. 1
THROUGH AUGUST 31, 2014**



Legend

- Relocation Pipeline
- Distribution Pipeline
- Parallel Pipeline
- x-x-x- Olompali State Park Property Line

Photo location

Project Location

North Marin Water District
 Aqueduct Energy
 Efficiency Project

SUMMARY OF CONSTRUCTION STATUS

• **Contractor: Ghilotti Construction Company**

Base Contract Amount.....	\$ 12,275,517.00
Change Orders Executed.....	\$ 293,626.75
Total Contract Cost.....	\$ 12,569,143.75
Contract Amount Earned.....	\$ 3,844,316.45
Retention Withheld (total).....	\$ 192,215.82
Payments to Ghilotti Construction (total excludes retention).....	\$ 3,652,100.63
Estimated Percent Complete.....	31 %

Schedule

Notice to Proceed.....	March 17, 2014
Base Contract Duration.....	490 consecutive days
Original Completion Date.....	July 19, 2015
Time Extension Authorized.....	0 days
Revised Duration	490 consecutive days
Revised Completion Date	July 19, 2015
Weather Days (included in base duration).....	15 days
Weather Days Expended (included in time expended).....	0 days
Time Expended.....	167 Days
Percent Time Expended	34.1 %

Construction Manager's Summary

1. Schedule

The revised schedule has been prepared and submitted showing changes in sequencing and constraints and other coordination issues. The submitted schedule also includes actual start and finish dates as appropriate for activities. The latest schedule update shows completion about 2 months ahead of schedule.

2. Work Progress

Pipe installation been completed in Reaches C and D from the southern tie-in near San Antonio Road, over the hill behind the Korean Church toward the north to the crossing of San Antonio Creek. Pipe installation activities will now move to Reach A in September.

Both crossings for the main line of Highway 101 have been completed. This work includes the installation of the casing and carrier pipe at each crossing. Work was started on the installation of the casing pipe for the crossing of San Antonio Creek.

3. Testing

During the month, testing of the tape wrap, welding and compaction testing have continued. Prior to installation, the tape wrap coating on the pipeline is tested for any damage that may have resulted during shipping. All damage is repaired prior to installation. Once the pipe is installed, testing of each weld is completed. Backfill is also tested to determine if the required levels of compaction are being met.

4. Anticipated Work for Next Month

The jack and bore operation will be completed at the crossing of San Antonio Creek. The carrier pipe will be pushed into the casing. Dewatering wells will be abandoned.

Work will begin on the installation of the 42 inch pipe in Reach A. Once this work is done, the contractor will install appurtenances in that Reach. If the work in Reach A is completed, the pipe between the creek crossing and the crossing of Hwy. 101 will be installed.

The deep well anodes should be drilled, one at the exit from northbound Hwy 101 at the Redwood Landfill and the other at the driveway for the Corda property.

PROJECT ADMINISTRATION

SUBMITTAL STATUS

	Received			Pending
	To Date	August	Returned	
First Time Shop Drawing Submittals	61	3	61	0
Request for Information	47	9	47	0

FIELD ORDERS

	Total	August	Active	Total Cost of
				Active Orders
Field Orders Issued	7	2	7	\$190,000.00

CHANGE ORDER SUMMARY

	Total	August	
	Value of Change Orders Executed in August	6	
Value of Change Orders Executed to Date	6		\$293,626.75
Percent to Date of Original Contract			2.6%

WEATHER RELATED DELAYS

	Days
Base Contract Allowance	15
Weather Related Days in August	0
Weather Related Days to Date	0

Estimated Labor Hours vs. Actual Hours
for
Construction Management Services
for the
North Marin Water District - AEEP Reaches A-D/MSN B3 Project
Through July 30, 2014

Estimated Hours/Costs																								
2014-2015																								
TASK	STAFF	ROLE	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total Hours	Hourly Rate	Cost	
CM	Ken Sinclair, PE	Resident Engineer	40	88	132	168	184	168	176	80	80	80	80	80	80	80	168	176	184	80	2124	\$ 173.48	\$ 368,471.52	
CM	Tom Silva	Senior Inspector	0	0	80	168	184	168	176	184	160	184	176	160	176	176	168	176	184	0	2520	\$ 145.57	\$ 366,836.40	
CM	Bob Klein	Office Engineer	0	0	88	84	92	84	88	92	80	82	88	80	88	88	84	88	92	80	1388	\$ 106.92	\$ 148,404.96	
Biological Monitoring	CH2MHill		\$ 2,531	\$ 20,350	\$ 20,350	\$ 20,350	\$ 20,350	\$ 20,350	\$ 20,350	\$ 20,350	\$ 20,350	\$ 20,350	\$ 20,350	\$ 20,350	\$ 20,350	\$ 18,870	\$ 18,870	\$ 18,870	\$ 18,870	\$ 18,870			\$ 341,081.00	
QA/Welding Inspection	Miller Pacific				\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633	\$ 1,633			\$ 24,500.00	
Vehicles				\$ 600	\$ 2,400	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 2,400	\$ 2,400	\$ 2,400	\$ 2,400	\$ 2,400	\$ 2,400	\$ 2,400	\$ 3,000	\$ 3,000	\$ 3,000	\$ 2,400			\$ 43,200.00	
Office Supplies					\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100			\$ 1,600.00	
Copier						\$ 267	\$ 267	\$ 267	\$ 267	\$ 267	\$ 267	\$ 267	\$ 267	\$ 267	\$ 267	\$ 267	\$ 267	\$ 267	\$ 267	\$ 262			\$ 4,000.00	
																					TOTAL		\$	1,298,093.88
*Scheduling Support	GC Preston					\$ 2,000	\$ 1,720	\$ 1,720	\$ 1,720	\$ 1,720	\$ 1,720	\$ 1,720	\$ 1,720	\$ 1,720	\$ 1,440								\$ 17,200.00	
																					Total with added Scheduling Support		\$	1,315,293.88

Actual Hours/Costs Through July 31, 2014																								
2014-2015																								
TASK	STAFF	ROLE	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total Hours	Hourly Rate	Cost	
CM	Ken Sinclair, PE	Resident Engineer	0	61	94.5	106	80														352	\$ 173.48	\$ 60,978.22	
CM	Justin Seufert, PE	Back up Resident Engineer					54														54	\$ 151.42	\$ 8,176.68	
CM	Tom Silva	Senior Inspector	0	24	76.5	159	181.5														441	\$ 145.57	\$ 64,196.37	
CM	Bob Klein	Senior Inspector					65.5														66	\$ 155.92	\$ 10,212.76	
CM	Bob Klein	Office Engineer	0	0	26.5	64.5	12.5														104	\$ 106.92	\$ 11,066.22	
CM	Steve Matrangola	Back up Office Engineer					40														40	\$ 106.92	\$ 4,276.80	
Biological Monitoring	CH2MHill		\$ -	\$ -	\$ 3,311	\$ 9,267	\$ 15,088																\$ 27,665.86	
QA/Welding Inspection	Miller Pacific			\$ -	\$ -	\$ -	\$ 3,548																\$ 3,547.90	
Scheduling Support	GC Preston						\$ 3,386																\$ -	
Vehicles				\$ 607	\$ 1,166	\$ 1,957	\$ 2,775																\$ 6,505.01	
Office Supplies					\$ -	\$ -																	\$ -	
Copier						\$ -																	\$ -	
																					TOTAL		\$	196,625.82

*Scheduling Support was added after contract was executed. Will track budget and determine if additional budget needs to be added in future.



Field Order Log

Contract No.: 14006

NMWD - AEEP Reaches A-D / MSN B3

Field Order No.	Subject	Date Sent	Not to Exceed Amount	Actual cost
1	Field Order 01 - Excavating in areas of possible hydrocarbon contamination - Kastania Road, Sta 8+00 - 10+00, W-8 Line.	05/27/2014		
2	Field Order 02 - Potholing AT&T conduit between Station 6575+00 and Station 6576+00 Reach "B"	06/02/2014		\$672.26
3	Field Order 03 - Relocation of 10" water main at Station 6537+40	06/05/2014		
5	Tree Removal for Receiving Pit	07/18/2014	\$5,000.00	
7	Relocate K-Rail & Gawk Screen; Driveways & PG&E Access	08/12/2014		
999	Roblar Drive casing extension at SMART Railroad Crossing	08/29/2014		

Contract Change Order Log

Job Stamp
 NMWD - AEEP Reaches A-D / MSN B3
 CIP 1.7118.09
 VCA # 14006
 GC # 5543

CCO No.	Suppl. No.	Title	Date Approved	Amount	Time Extension	No Time Adjustment	Deferred
1		Buy American Requirement	04/11/2014	\$112,731.00	0 C.D.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2		ARVC Assembly @ Pump Sta. Flex pipe on motorized trailer	07/18/2014	\$153,945.00	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3		ARV at Gunn Dr Pump Sta		\$782.25	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4		Buy American for Pump Station		\$2,431.00	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5		10" water line drop at Sta 6537+40		\$18,900.00	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6		Reach C-D Telemetry Conduit & PB		\$4,837.50	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7		Telemetry Fiber Optic #19/6P		\$12,736.30	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8		Reach C-D Additional Stump Grinding		\$84.00	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9		Reach "B" Alignment Change Sta 6561+23 to 6565+81		\$3,806.50	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10		Reach "A" Alignment Change at Station 6662+16		\$11,639.15	0 C.D.	<input type="checkbox"/>	<input type="checkbox"/>
11		Control System Changes at Booster Pump Station per Submittal S-014		\$7,777.37	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12		Realignment of 42" WSP Aqueduct at 3/4" HP Gas Line.		\$22,600.00	0 C.D.	<input type="checkbox"/>	<input type="checkbox"/>
999		Casing Extensions on Roblar Drive & SMART Crossing to Existing Water Main		\$26,575.74	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Total: \$396,573.23 0 C.D.

CCO No.	Suppl. No.	Title	Date Approved	Amount	Time Extension	No Time Adjustment	Deferred
13		Pothole for AT&T Conduit		\$672.26	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14		Drain Line Rem SCWA - Response to RFI #28		\$802.38	0 C.D.	<input type="checkbox"/>	<input type="checkbox"/>
15		Potholing for Utilities Not Shown on Plans		\$2,645.72	0 C.D.	<input type="checkbox"/>	<input type="checkbox"/>
16		Replace Crash Cushion		\$4,146.24	0 C.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17		Repair to subgrade located in median between Station 6630+00 to 6632+50		\$512.85	0 C.D.	<input type="checkbox"/>	<input type="checkbox"/>
18		Additional Median Grinding in Response to RFI #31		\$8,947.97	0 C.D.	<input type="checkbox"/>	<input type="checkbox"/>
Total:				\$396,573.23	0 C.D.		



Jacking Pit for North Highway 101 Crossing (1)



Installing Carrier Pipe in casing at North Highway 101 Crossing (2)



Testing of Tape Wrap Prior to Pipe Installation (3)



Work on 10 inch Drop (4)



Pipe Installation in Reach D (5)



Installation of wye for connection point north of Korean Church property (6)



Connection for flexible hose by-pass system south of Creek (7)



Pipe installation looking north from hill behind the Korean Church (8)



Pipe installation out of jacking pit crossing Hwy 101 on Tognalda Property (9)




Jacking pit on Tognalda Property for crossing of San Antonio Creek (10)

12

MEMORANDUM

To: Board of Directors

Sept 12, 2014

From: Chris DeGabriele, General Manager 

Subject: Technical Advisory Committee Meeting – September 8, 2014

\\nmwdsrv1\administration\gms\scwa\tac minutes and agenda\2014\tac cd notes 090814.docx**RECOMMENDED ACTION:** Information Only**FINANCIAL IMPACT:** None

Agenda Attached with September 2014 Biological Opinion Update

3. Water Supply Conditions and Summer Water Conservation

Parties were reminded that the first reports to the SWRCB in response to Emergency Drought Regulations were submitted by individual water contractors on August 15th and the next report is due September 15th. The table prepared by Brenda Adelman and distributed to the TAC showed FY2012/13 vs. FY2013/14 SCWA deliveries and did not include local supply. Public members asked how to access the information submitted to the SWARCB and that the submitted information be compiled for all the Water Contractors. Santa Rosa advised their "DIY Drought Solutions" event was held at Coddington Mall on August 23rd and over 800 people attended. The event materials are available for other Water Contractors to use upon request. Carrie Pollard reported on the continuing water conservation outreach.

4. Temporary Urgency Change Order

Pam Jeane advised that Lake Mendocino is approximately 28% full and Lake Sonoma is 62% full. On August 25th the SWRCB approved a TUCO enabling the minimum in stream flows to be reduced to 50cfs in the Upper Russian River and 60cfs in the Lower Russian River. Currently flows register 60cfs at the Healdsburg gage (Upper RR) and 75cfs at the Hacienda gage (Lower RR). The order added significant consultation requirements with fishery agencies, water quality and fish monitoring, reporting and a new Dry Creek fish monitoring station. The order also added a Term 17, water demand reduction plan, which the Water Contractors will need to assist SCWA in compliance. Pam also reported that the SWRCB issued a TUCO to the Mendocino County Flood Control and Water Conservation Improvement District requiring demand forecasting to assist SCWA in meeting the in stream flow requirements.

5. SCWA Rate Study

Lynne Rosselli from SCWA updated the TAC on the Wholesale Water Rate Study being conducted by HF&H consultants. Two technical memo's have been prepared and are being reviewed by SCWA. The results are to be considered using the Long Range Financial Plan model to determine effect on operating revenue. She advised that a TAC Ad Hoc committee will review the information at a meeting not yet scheduled but likely to be held in October. The TAC requested to see the consultant work product as soon as possible.

6. FY2015/16 LRT2 Program Funding

The parties were advised that a letter was sent to Santa Rosa last week requesting input on LRT2 projects so that funding can be included in next year's SCWA budget. Santa Rosa is the only Water Contractor who has not yet received their full share of the original \$13M LRT2 program funding which program originated with the 2000 Temporary Impairment MOU between SCWA, the Water Contractors and MMWD. It is hoped the LRT2 funding can be approved at the November 3 WAC meeting.

7. August 24 Napa Earthquake Emergency Response

The parties individually recapped response to the August 24th earthquake. Of note was power loss to the Sonoma Valley WWTP and some private water facility damage (customer side) in Sonoma. All Water Contractor and SCWA facilities were not impacted.

8. Biological Opinion Status Update

Pam Jeane reviewed the status report for September 2014, included herein.

9. Water Bond Update

The elements of the Water Bond, Proposition 1, to be on the November ballot were briefly reviewed.

Next Meeting:

The next meeting is a combination TAC meeting on October 6, 2014.

FOR ACCESSIBLE
MEETING INFORMATION
CALL: (707) 543-3350
ADD: (707) 543-3031



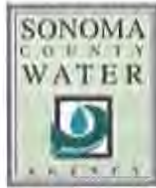
TECHNICAL ADVISORY COMMITTEE

MONDAY, SEPTEMBER 8, 2014

9:00AM

Utilities Field Operations Training Center
35 Stony Point Road, Santa Rosa, CA

1. Check In
2. Public Comment
3. Water Supply Conditions and Summer Water Conservation
4. Temporary Urgency Change Order
5. SCWA Rate Study
6. FY2015/16 LRT2 Program Funding
7. August 24 Napa Earthquake Emergency Response
8. Biological Opinion Status Update
9. Water Bond Update
10. Items for next agenda
11. Check Out



Russian River Biological Opinion Update – September 2014

The Sonoma County Water Agency is continually planning and implementing the Russian River Biological Opinion requirements. The following project updates provide a brief synopsis of current work. For more detailed information about these activities, please visit www.sonomacountywater.org.

Dry Creek Habitat Enhancement and Demonstration Project

- Construction of the remainder of the one-mile demonstration project continues this summer, with construction underway on June 16. Hanford Applied Restoration & Conservation, out of Sonoma, is constructing the project.
- Site identification, outreach to landowners, preliminary environmental studies and topographic surveys are underway for the second and third miles of habitat enhancement. Two firms, Interfluve and ESA PWA, are designing the second and third miles of habitat enhancement. Draft 10% conceptual designs are complete, and discussions with landowners are underway.
- Water Agency staff is working closely with the US Army Corps of Engineers on a Continuing Authorities Program (CAP) project that should allow the Corps to contribute funding for a portion of the mile 2-3 phase of Dry Creek Habitat enhancement.

Fish Monitoring

Monitoring is underway for juvenile fish, with downstream migrant traps installed at Dry Creek and the Russian River at Mirabel. Traps are checked daily. Water Agency staff are regularly consulting with National Marine Fisheries Service and California Department of Fish and Wildlife regarding the status of the migration and plans for reservoir releases.

Mirabel Screen and Fish Ladder Replacement

Construction of the Mirabel Fish Passage Improvement Project fish is underway, with the installation of two coffer dams (upstream of Wohler Bridge to create a water supply pool and at the Mirabel site for construction purposes). The seismic upgrade project (not required by the Biological Opinion) has been completed.

Russian River Estuary Management Project

- All permits for the Lagoon Management Project have been received. The 2014 Lagoon Management Period began on May 15. To date, the estuary has remained open. Downstream migrant fish sampling is underway at Austin Creek and with an antenna at Duncans Mills that can read passive integrated transponders (PIT) tags. Biological and water quality monitoring, including fisheries and invertebrate sampling are ongoing. Monthly baseline monitoring of seals and other pinnipeds is ongoing.
- Field investigations of the jetty have begun. Work was conducted in early March, including the installation of monitoring wells, and will resume this summer. The purpose of the studies is to determine if and how the jetty impacts the formation of the barrier beach and lagoon water surface elevation.

Fish Flow Project

Work is occurring internally on the preparation of the draft Environmental Impact Report for the Fish Habitat Flows and Water Rights Project. The EIR is being prepared by Water Agency staff, with assistance from consultants on some areas of impact analysis (on June 24 the Board of Directors approved a contract with M. Cubed, Inc. for the socioeconomic analysis). A draft EIR is anticipated to be released in the winter.

Interim Flow Changes

On August 25, the State Water Resources Control Board issued a new order, allowing minimum flows to be reduced to 50 cfs in the upper river and 60 cfs in the lower river (minimum flows are based on a five day running average). The Water Agency and the Mendocino County Russian River Flood Control and Water Conservation Improvement District requested these changes to preserve water in Lake Mendocino for water supply and for the fall Chinook run. Due to the drought, this is the third TUC issued since December 2013. The Water Agency staff consult regularly with resource agencies and upper river users regarding Lake Mendocino conditions.

Public Outreach, Reporting & Legislation

- The Water Agency is working with contractors through the Sonoma-Marín Saving Water Partnership on an ad campaign messaging: There's a Drought on. Turn the Water Off.
- Outreach on Dry Creek construction activities is occurring through direct mail, website, enews, signs and partnerships with the Dry Creek Valley Association and the Winegrape Growers of Dry Creek Valley.



Dry Creek Habitat Enhancement, August, 2014

13

DISBURSEMENTS - DATED SEPTEMBER 4, 2014

Date Prepared: 9/2/14

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
1	Allen, Ken	Novato "Cash for Grass" Program	400.00
2	Alliquip Universal	Vac Hose Couplings (16)	808.90
3	Athens Administrators	Sept Workers Comp Admin Fee	1,000.00
4	AT&T	August Internet Service @ PRTP	70.00
5	AT&T	Telephone Charges: Leased Lines	603.21
6	Augusto, Carl	Novato "Toilet Rebate" Program	200.00
7	Baker, Jack	Aug Director's Fee (\$400) & NBWRA Meeting on 7/28/14 (\$200)	600.00
8		Vision Reimbursement	100.00
9	Bethge, Herbert	Novato "Cash for Grass" Program	400.00
10	BioVir Laboratories	Lab Testing	850.00
11	Blustein, Parke	Novato "Toilet Rebate" Program	100.00
12	Borgman, Andre	Novato "Cash for Grass" Program	95.00
13	CA Dept of Public Health	Renewal Fee for D2 Certification (Latanyszyn) (Budget \$80) (2/15-1/18)	80.00
14	California Pavement	Micro Surfacing of NMWD Parking Lot	4,824.63
15	California State Disbursement	Wage Assignment Order	1,018.50
16	CalPERS	Health Insurance Premium (Employees \$52,683, Retires \$9,786 & Employee Contrib \$9,927)	72,395.60
17	Canziani, Carlo	Novato "Washer Rebate" Program	50.00
18	Durkin Signs & Graphics	NMWD Logos & Truck #'s (8 Sets)	353.77
19	Equipco	Diagnostic Labor Performed on YSI Sonde probe (STP)	671.66
20	FedEx Freight West	Shipping Cost for Vacuum Hose	113.16


Seq	Payable To	For	Amount
21	Fraites, Rick	Aug Director's Fee	400.00
22	Golden Gate Petroleum	Gasoline (\$3.66/gal) & Diesel (\$3.84/gal)	5,576.70
23	Goodpaster, Stacie	Exp Reimb: Lab Vellum for Bacteria Bottles	130.07
24		Cafeteria Plan: Uninsured Medical Reimbursement	213.41
25	Grainger	Pressure Transducer (\$211), Cordless Impact Gun for Backflow Meters (\$435), Label Maker, Tape (\$144), Tubing Cutters (10) (\$98), Hose Clamps (16) (\$93), Painters Tool (3), Lumber Crayon (2) (\$33) & Tie Down Strap (\$39)	1,069.51
26	Greg's Locksmithing	Front Door Lock Assembly Repair (15 Gustafson Ct)	250.27
27	Hardy Diagnostics	Growth Media for Bacteria (Lab)	214.30
28	Helfond, Lisa	Novato "Cash for Grass" Program	400.00
29	Hickey, Kevin	Refund Excess Advance for Construction Over Actual Job Cost: 78 La Costa Ct-Kill Service to Relocate	746.36
30	Jimenez, Maria	Novato "Washer Rebate" Program	50.00
31	Kay, Jeanette	Novato "Cash for Grass" Program	200.00
32	Keegan, Tom	Novato "Toilet Rebate" Program	100.00
33	Kemira Water Solutions	Ferric Chloride (10 dry tons) (STP)	5,416.20
34	Kiteas, Karen	Novato "Washer Rebate" Program	50.00
35	Lincoln Life	Deferred Compensation PPE 8/31/14	12,920.87
36	Lopes, Michael	Novato "Washer Rebate" Program	50.00
37	Machado, John	Novato "Cash for Grass" Program	130.00
38	Maltby Electric	Electrical Conduit (\$202) & Fitting	401.20
39	Mani, Cassandra	Novato "Pool Cover Rebate" Program	40.59
40	Marin Reprographics	Bond Paper (36" x 150) (\$83) (4) & (36" x 500) (\$85) (2)	167.63


Seq	Payable To	For	Amount
41	McLellan, WK	Misc Paving (314 S.F.)	2,418.16
42	Ed Mestre	Novato "Rainwater Harvesting" Program (\$150) & Novato "Cash for Grass" Program (\$200)	350.00
43	Moore, Barbara	Novato "Toilet Rebate" Program	100.00
44	Moretti, Clark	Exp Reimb: Safety Boots	200.00
45	Nationwide Retirement Solution	Deferred Compensation PPE 8/31/14	1,025.00
46	New Pig	Disposable Safety Gloves (40) (Industrial Grade)	421.82
47	North Bay Korean American	Compensation for New Easement (7,072 S.F.) (\$9,357) & 15 Trees Removed on Church Property (\$9,750) (AEEP)	19,107.00
48	Northern Safety	Lab Coat (Lucchesi)	63.50
49	Novato, City of	Street Excavating Moratorium Fee (800 McClay)	500.00
50	Office Depot	Binders (20) (\$58), Monitor Stand & Pens (48) (\$54)	128.72
51	Pace Supply	Meter Boxes (60) (\$1,426), Meter Box Lids (40) (\$1,474), Bolts (110) (\$229), Hymax (3) (\$4,112), 6" PVC Pipe (100') (\$557), Meter Stops (8) (\$1,701), Couplings (25) (\$373) & Valves (5) (\$2,477)	12,350.00
52	Partridge Knolls Condominiums	Novato "Toilet Rebate" UHET Program	300.00
53	Perry, Coley	Novato "Washer Rebate" Program	50.00
54	Petterle, Stephen	Aug Director's Fee	400.00
55	Point Reyes Light	8/17/14 Display Ad Regarding Drought Info	95.00
56	Reed, Corey	Exp Reimb: Snack for Safety Meeting	30.52
57		Cafeteria Plan: Childcare Reimbursement	208.33
58	Riccio, Judy	Novato "Cash for Grass" Program	400.00
59	Ridley, Kristie Ann & Matthew	Novato "Washer Rebate" Program	50.00
60	Robinson, Hiroko	Novato "Pool Cover Rebate" Program	50.00

Seq	Payable To	For	Amount
61	Rodoni, Dennis	Aug Director's Fee (\$400), Water Supply Coordinating Council Meeting on 7/25/14 (\$200) & WAC/TAC Meeting on 8/4/14 (\$200)	800.00
62	Schoonover, John	Aug Director's Fee Less Deferred (\$350) & NBWRA Meeting on 7/28/14 (\$200)	550.00
63	Schubeck, Gretchen	Novato "Washer Rebate" Program	50.00
64	Sefl, Albert	Novato "Pool Cover Rebate" Program	25.80
65	Sheehan, Robert	Novato "Cash for Grass" Program	400.00
66	Silverado Avionics	Radios for New Trucks (3)	4,646.45
67		Cafeteria Plan: Uninsured Medical Reimbursement	847.29
68	Syar Industries	Asphalt (7 tons)	795.09
69	TEE VAX	Replacement Dishwasher (Security Apartment)	512.25
70	Univar	Sodium Hydroxide (25,000 lbs) (STP)	5,555.19
71	U.S. Bank Credit Card	Portable External Drive (2) (\$280), 5-Drawer Flat File Cabinet (\$694) (Eng), Wasp & Hornet Killer Spray (36-13 oz) (\$173), Printer (\$313) (Consumer Accounting), Canopy for Outreach Events (Water Cons) (\$87), Food & Supplies for Patio Picnic (\$58), Target Gift Cards for Safety Bravos (15-\$10), Hotel for ACWA Conference in Eureka (\$305) (DeGabriele & Bentley), Business Lunch (\$49) & Parking (\$17) for SWRCB	2,126.38
72	Verizon California	Telephone Charges: DSL Line & Leased Lines	92.80
73	Verizon Wireless	July CIMIS Station Data Transfer Fee	28.95
74	Wahlberg, Richard	Novato "Washer Rebate" Program	50.00
75	Walline, Paul	Novato "Toilet Rebate" Program	100.00
76	West Marin Citizen	Drought Ads (7/31 & 8/7/14)	150.00

Seq	Payable To	For	Amount
77		Cafeteria Plan: Childcare Reimbursement	2,941.61
		TOTAL DISBURSEMENTS	<u>\$171,181.40</u>

The foregoing payroll and accounts payable vouchers totaling \$171,181.40 are hereby approved and authorized for payment.

 9/2/14
 Auditor-Controller Date

 9/2/2014
 General Manager Date

NORTH MARIN WATER DISTRICT CHECK REQUEST

PAYEE JACK BAKER	DATE <u>7/28/14</u> (TODAY'S DATE)
425 Corte Norte	AMOUNT: \$200.00
Novato, CA 94949	

I attended the Novato City Council Chambers on 7/28/14
(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

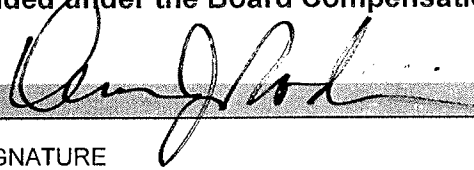
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Prepared By <u>C.J.</u>	Accounting Review																				
POST-DATE <u>8/14</u>	Vendor No. BAKE01																				
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	56001-01-11	\$200.00																			
TOTAL		\$200.00																			

NORTH MARIN WATER DISTRICT CHECK REQUEST



PAYEE DENNIS RODONI	DATE <u>8 4 14</u> <small>(TODAY'S DATE)</small>
P.O. Box 872	AMOUNT: \$200.00
Pt. Reyes Station, CA 94956	

I attended the WAC Tac Meeting in Santa Rosa 8 4 14 on 8 4 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>DISPOSITION OF CHECK</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 style="text-align: center;"></p> <hr/> <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> <th style="font-size: small;">Prepared By</th> <th style="font-size: small;">Accounting Review</th> </tr> <tr> <td style="text-align: center;"><u>C.F.</u></td> <td></td> </tr> </table>	Prepared By	Accounting Review	<u>C.F.</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="font-size: small;">POST DATE</th> <th style="font-size: small;">Vendor No.</th> </tr> <tr> <td style="text-align: center;"><u>8/14</u></td> <td style="text-align: center;">RODO01</td> </tr> </table>	POST DATE	Vendor No.	<u>8/14</u>	RODO01														
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Job Number	GL Account	Amount																						
	56001-01-11	\$200.00																						
TOTAL		\$200.00																						

NORTH MARIN WATER DISTRICT CHECK REQUEST




PAYEE JOHN SCHOONOVER	DATE <u>8/7/14</u> (TODAY'S DATE)
1160 Rosalia Drive	
Novato, CA 94947	AMOUNT: \$200.00

I attended the Novato City Council Chambers on 7/28/14
(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

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

[Redacted Signature]
SIGNATURE

CHARGE TO: 56001-01-11

<p>DISPOSITION OF CHECK</p> <p><input checked="" type="checkbox"/> MAIL TO PAYEE</p> <p><input type="checkbox"/> HOLD FOR _____</p> <p><input type="checkbox"/> OTHER _____</p> <p style="text-align: center;"><u>[Signature]</u> 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%; padding: 2px;">Prepared By <u>C.J.</u></td> <td style="width: 20%; padding: 2px;">Accounting Review</td> <td style="width: 20%; padding: 2px;">POST DATE <u>8/14</u></td> <td style="width: 20%; padding: 2px;">Vendor No. SCHO01</td> <td style="width: 20%; padding: 2px; text-align: center;"></td> </tr> <tr> <td colspan="2" style="padding: 2px;">Invoice Number (CK Req ID) <u>CKRQ 080714</u></td> <td style="padding: 2px;">Invoice (CK Req) Date <u>8/7/14</u></td> <td colspan="2" style="padding: 2px;">Invoice (CK Req) Amount \$200.00</td> </tr> <tr> <td colspan="5" style="padding: 2px;">NMWD Comment</td> </tr> <tr> <td colspan="5" style="height: 40px;"></td> </tr> <tr> <td colspan="3" style="padding: 2px;">Job Number</td> <td style="padding: 2px;">GL Account 56001-01-11</td> <td style="padding: 2px;">Amount \$200.00</td> </tr> <tr> <td colspan="3" style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td colspan="3" style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td colspan="3" style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td colspan="3" style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td colspan="3" style="padding: 2px;"></td> <td style="padding: 2px; text-align: right;">TOTAL</td> <td style="padding: 2px; text-align: right;">\$200.00</td> </tr> </table>	Prepared By <u>C.J.</u>	Accounting Review	POST DATE <u>8/14</u>	Vendor No. SCHO01		Invoice Number (CK Req ID) <u>CKRQ 080714</u>		Invoice (CK Req) Date <u>8/7/14</u>	Invoice (CK Req) Amount \$200.00		NMWD Comment										Job Number			GL Account 56001-01-11	Amount \$200.00																								TOTAL	\$200.00
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Connie Filippi

From: David Bentley
Sent: Thursday, August 07, 2014 10:31 AM
To: Connie Filippi
Cc: Jack Baker; 'Schoonover7@aol.com'; Chris DeGabriele
Subject: FW: 9/28/14 Mtg. - North Bay Water Reuse Program

Connie

Please compensate Directors' Baker and Schoonover for their attendance at the 7/28/14 meeting accordingly....David

From: jack baker [mailto:jckbaker@gmail.com]
Sent: August 07, 2014 9:39 AM
To: David Bentley
Subject: 9/28/14 Mtg. - North Bay Water Reuse Program

David,

I attended the referenced mtg. (at Novato City Council Chambers) with Director Schoonover...Pls initiate compensation for my participation in said mtg.

Thank you
Jack Baker

MEMORANDUM

To: Board of Directors
From: David L. Bentley, Auditor-Controller
Subj: FY14 Residential Consumption & Tier-Rate Status Report
t:\actword\memo\14\sf fy14 residential consumption.docx

September 12, 2014

RECOMMENDED ACTION: Information

FINANCIAL IMPACT: Increase in Water Rates Required to Offset Reduced Water Demand

Total Residential Consumption

FY14 residential consumption was 2.263 BG, unchanged from FY13. The total is down 16% from the peak year (FY04), and up 8% from the FY11 trough, which saw the lowest consumption since 1992. Attachment A shows a history of Novato residential consumption.

Median Residential Consumption

Novato median single-family home consumption fell to 107,000 gallons last fiscal year, down 1,500 gallons from FY13. The average over the past 20 years is 121,000 gallons, with a high of 137,000 gallons registered in FY97, and a low of 100,000 registered in both FY11 and FY12. Of interest, the spread between mean and median consumption is trending downward about 2% per year, down from 22,000 gallons in FY03 (the year before the first tier rate was enacted) to 15,000 gallons last fiscal year (Attachment B). The decrease between the mean and median reflects the success of the District's tier-rate structure and water conservation programs in reining-in high-demand residential customers. FY14 median single-family home demand is down 22% from its FY97 peak.

Staff uses the median consumption volume to calculate total annual water cost used in the annual Urban Area Water Cost Comparison. The volume is used for both North Marin and the comparison agencies. For smoothing purposes, the exponential moving average¹ of the past five years median consumption is used to calculate "typical" single-family residential consumption. For Novato, "typical" consumption is now 107,700 gallons, up 100 gallons from one year ago. The increase in water use effectively increases the annual water cost, as calculated in the Water Cost Comparison for the typical Novato customer, by \$0.47 per year.

Conservation Incentive Rate

The Conservation Incentive Rate (CIR) is the surcharge applicable to residential water use that first appeared on bills rendered in June 2004. The surcharge adds \$7.61/1,000 gallons

¹ An exponential moving average is similar to a simple moving average, except that more weight is given to the latest data to reduce the lag. The exponential moving average is also known as "exponentially weighted moving average".

(177% to the Zone A base rate) to use exceeding 1,845 gallons per day (gpd). In FY04, 625 customers used more than 1,845 gpd in at least one billing period. In FY14 250 customers exceeded the CIR threshold – a 60% reduction. As shown graphically on Attachment C, total water use subject to the CIR fell from 60 MG in FY03 (the year before the CIR implementation) to 15 MG in FY14 – a 75% reduction.

To adjust for the reduction in overall water use and variations in weather, use above 1,845 gpd is also measured as a percentage of total residential water demand. Attachment D shows that FY14 use subject to the CIR has fallen 70% (to 0.7%) since implementation. The CIR has clearly been an effective tool in reducing water demand among very high-use residential customers.

Conservation Incentive Tier Rate

The Conservation Incentive Tier Rate (CITR) first appeared on water bills rendered in March 2007. The CIR adds \$2.55/1,000 gallons (59% to the Zone A base rate) for use between 615 and 1,845 gpd. Note that the CITR price signal (\$2.55) is one third of the CIR price signal (\$7.61), therefore we anticipate a lesser response, and that is what we see. In FY07, 6,693 customers (36% of residential customers) used water within the CITR range in at least one billing period. Last fiscal year (FY14), 4,632 customers (23% of residential customers) were subject to the CITR surcharge – a 31% reduction. Shown graphically on Attachment E, total water use subject to the CITR fell from 278 MG in FY06 (the year before implementation) to 198 MG in FY14 – a 29% reduction.

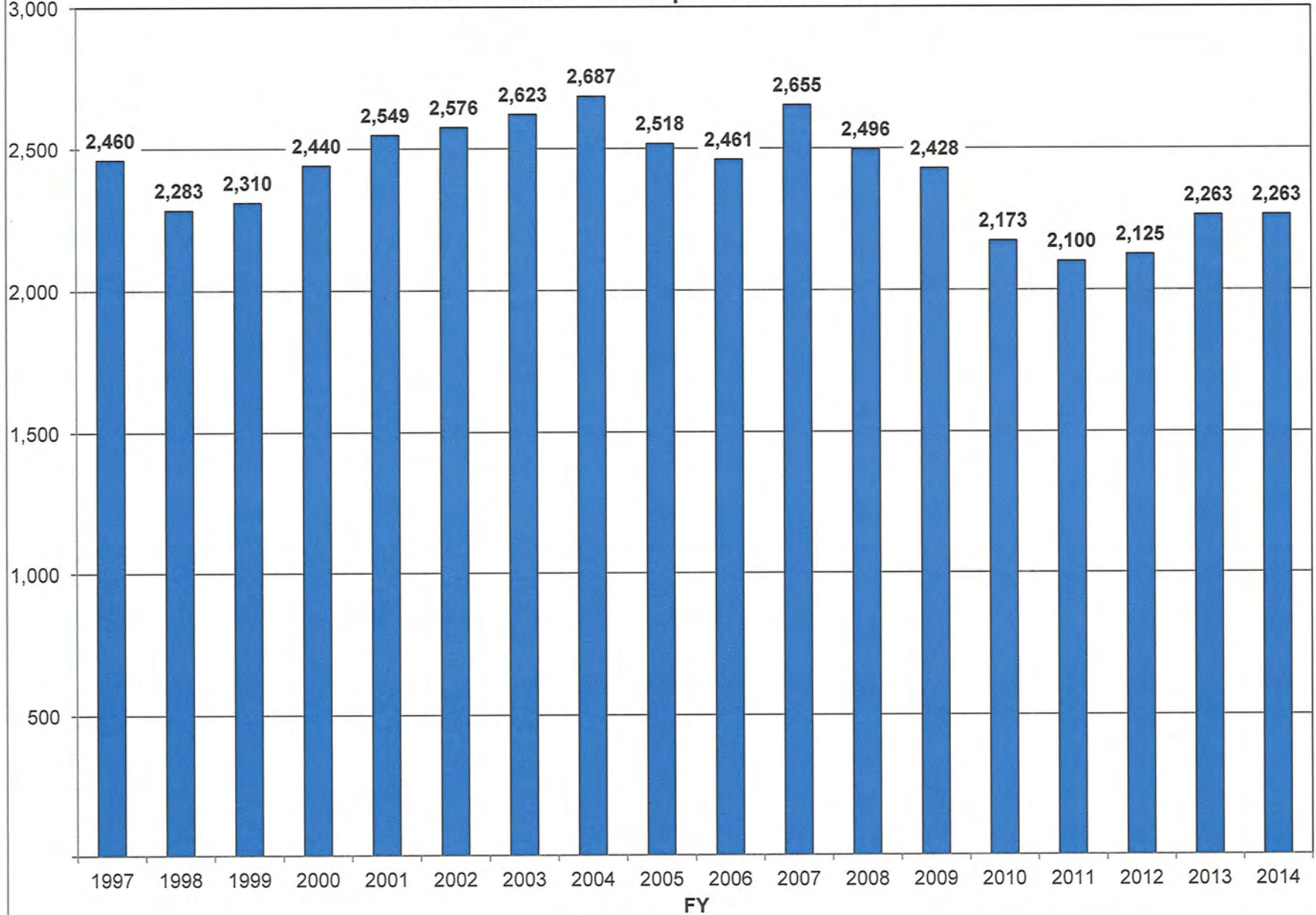
FY14 water use between 615 and 1,845 gpd as a percentage of total residential water demand has fallen 23% (to 8.8%) since implementation of the CITR (Attachment F). The CITR has also proven to be an effective tool in reducing water demand among high-use residential customers.

Demand Distribution

Finally, how has peak summer demand changed over the past decade? Attachment G shows that the District's conservation efforts have pushed the FY14 peak residential demand down appreciably. In FY04, 38% of customers peaked between 616 and 1845 gpd. In FY14, that number fell to 23%. Similarly, in FY04 3% of customers peaked at over 1,845 gpd. Today, only 1% of customers peak at over 1,845 gpd. While some of the recent consumption data is likely weather-related, the trend is clearly in the right direction.

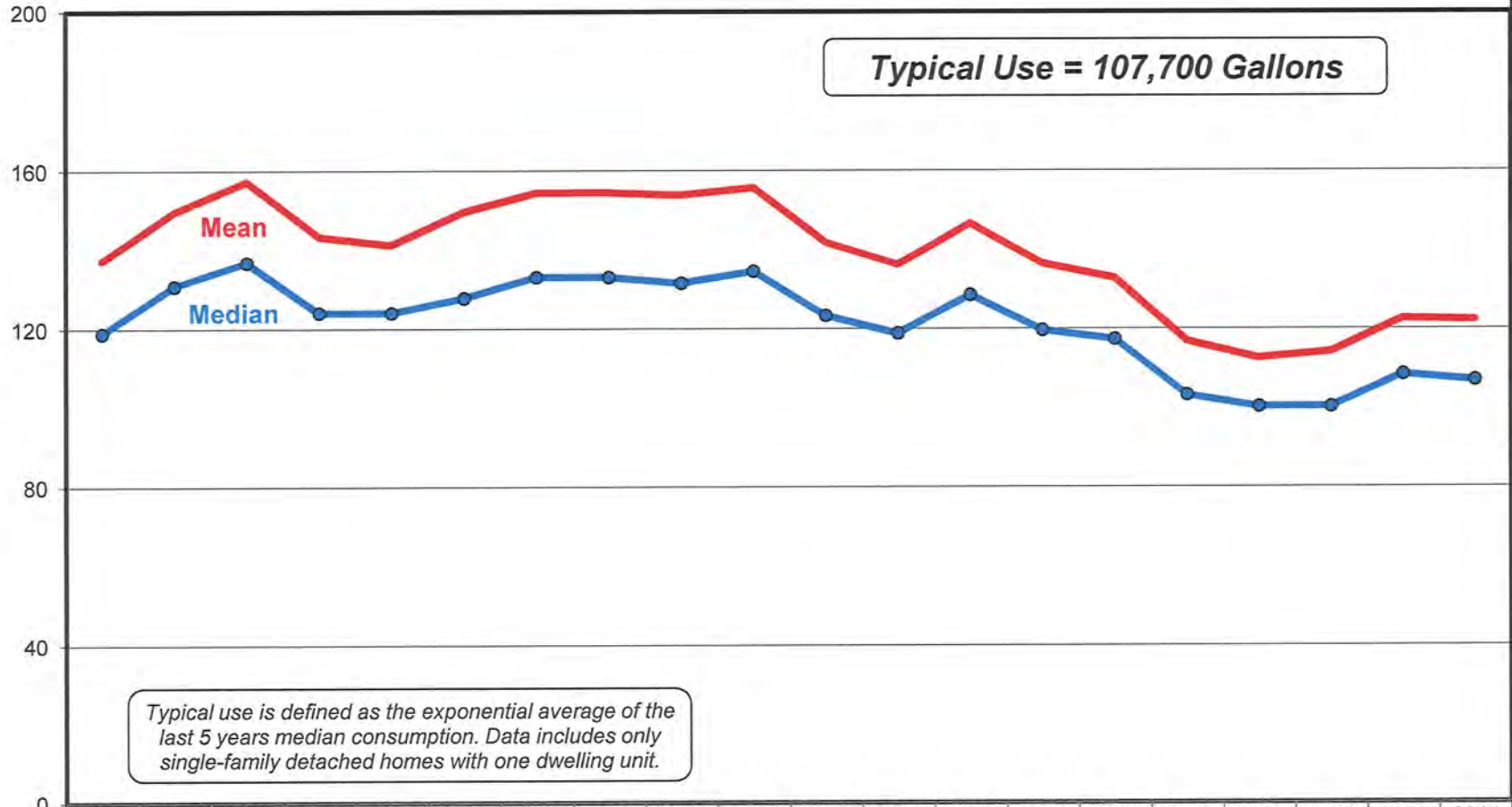
Total Novato Residential Use Based on Billed Consumption within the Fiscal Year

MG
3,000



Novato Residential Consumption Mean & Median Annual Water Use 20-Year History

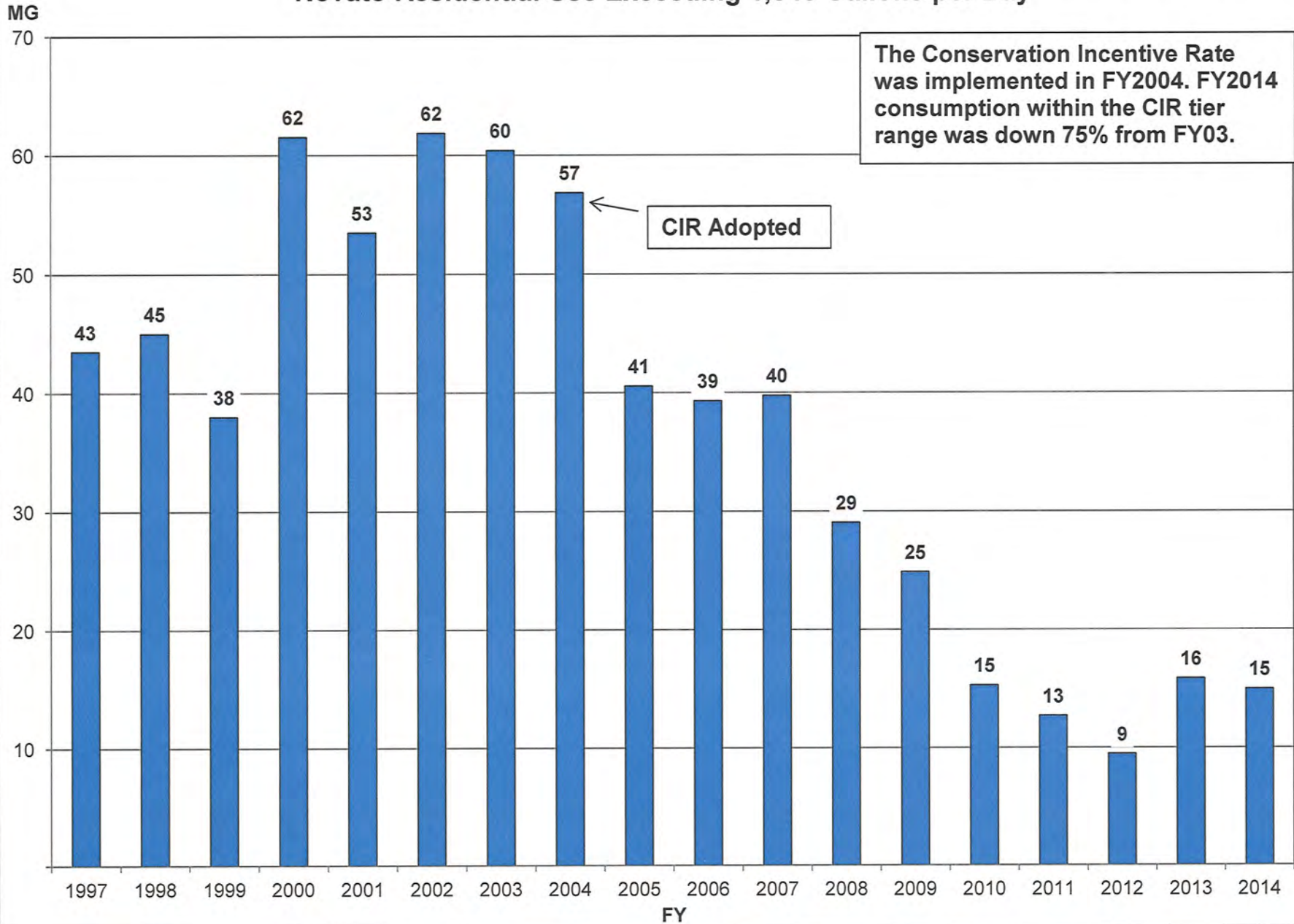
1,000
Gallons



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
—●— Mean	137	150	157	143	141	150	155	155	154	156	142	136	147	137	133	117	113	114	123	122
—●— Median	119	131	137	124	124	128	133	133	132	135	123	119	129	120	117	103	100	100	108	107

Fiscal Year Ending

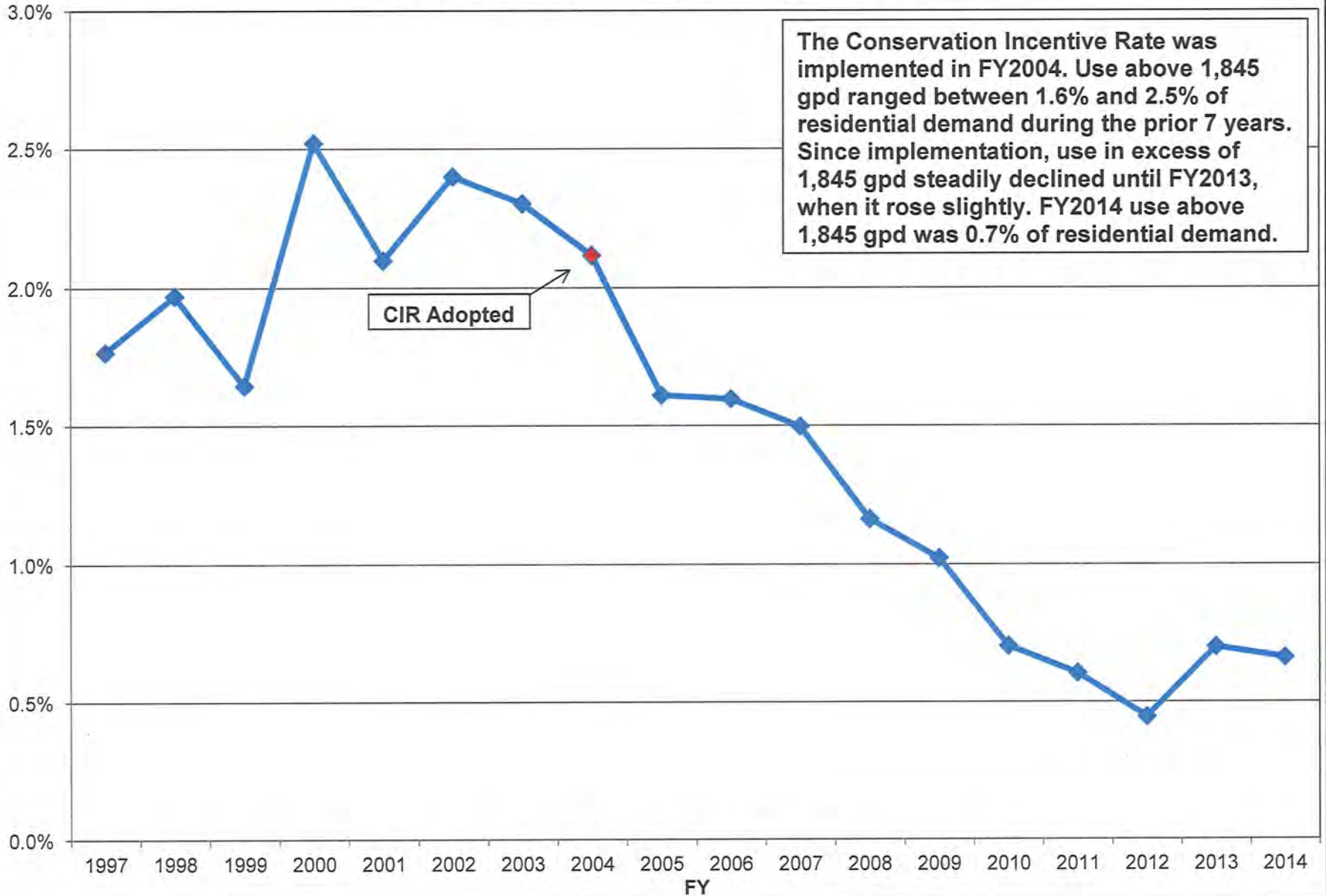
Novato Residential Use Exceeding 1,845 Gallons per Day



The Conservation Incentive Rate was implemented in FY2004. FY2014 consumption within the CIR tier range was down 75% from FY03.

CIR Adopted

Novato Residential Use in Excess of 1,845 Gallons per Day as a Percentage of Total Residential Use



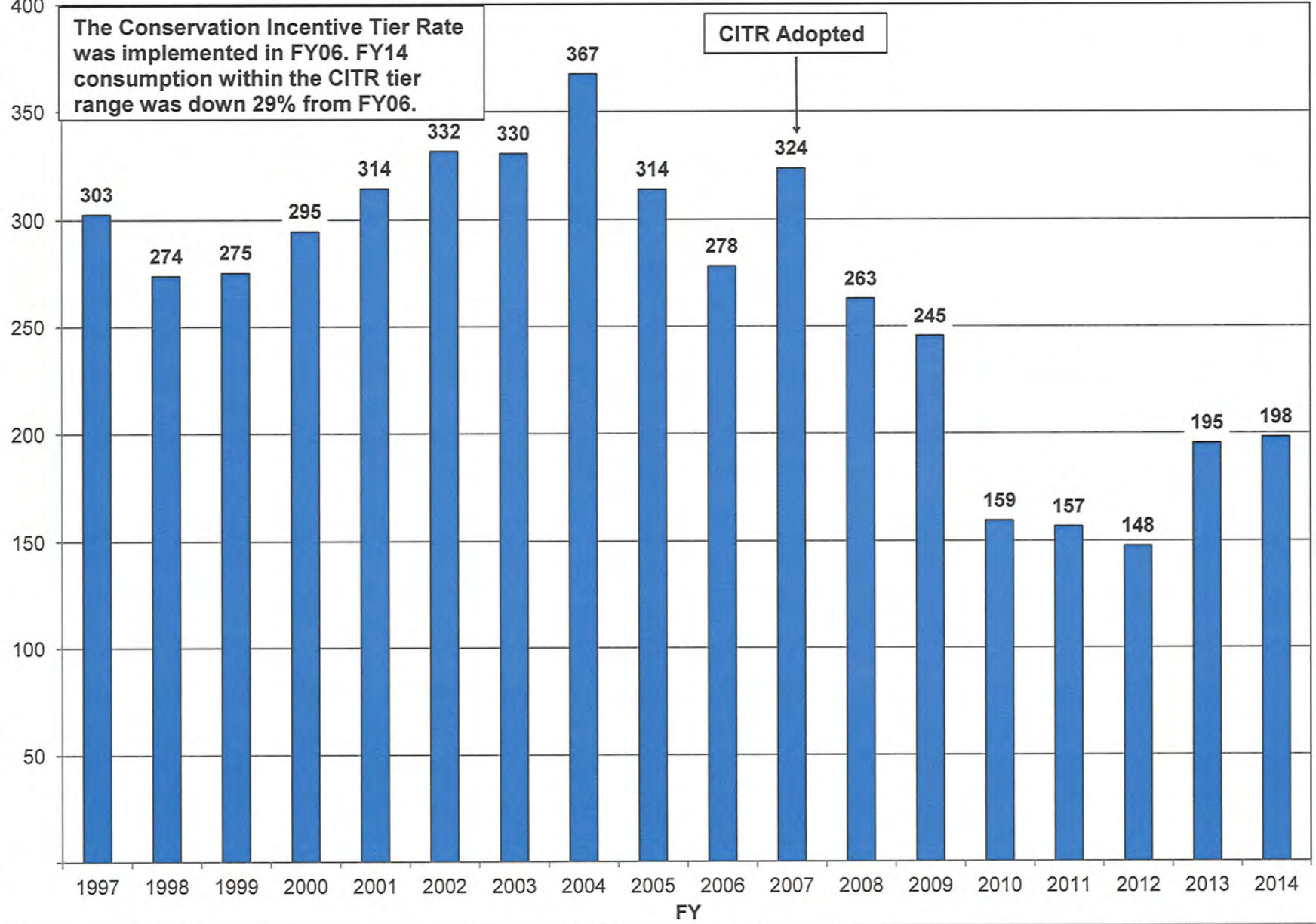
Novato Residential Use Between 615 and 1,845 Gallons per Day

MG

400

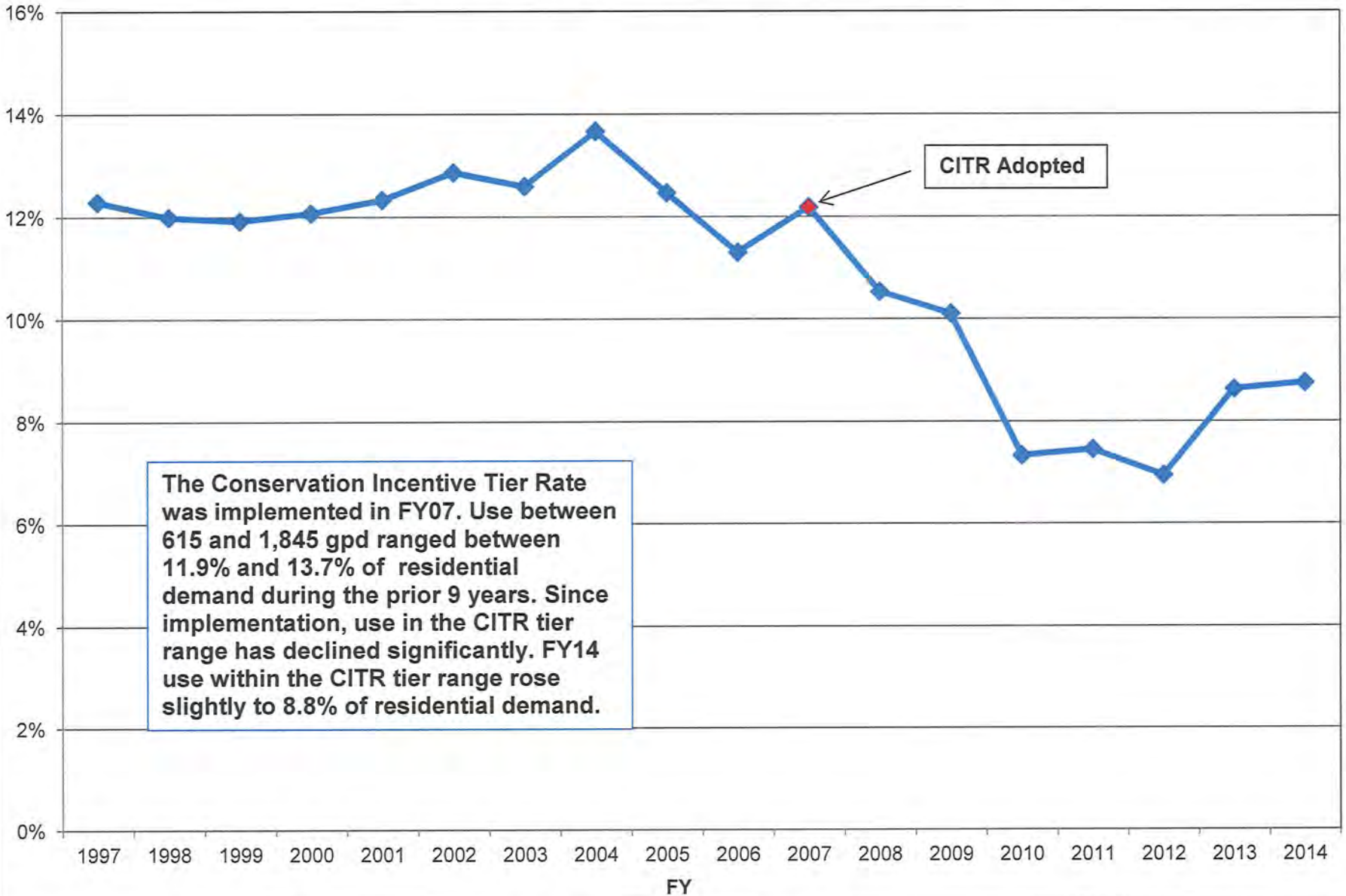
The Conservation Incentive Tier Rate was implemented in FY06. FY14 consumption within the CITR tier range was down 29% from FY06.

CITR Adopted

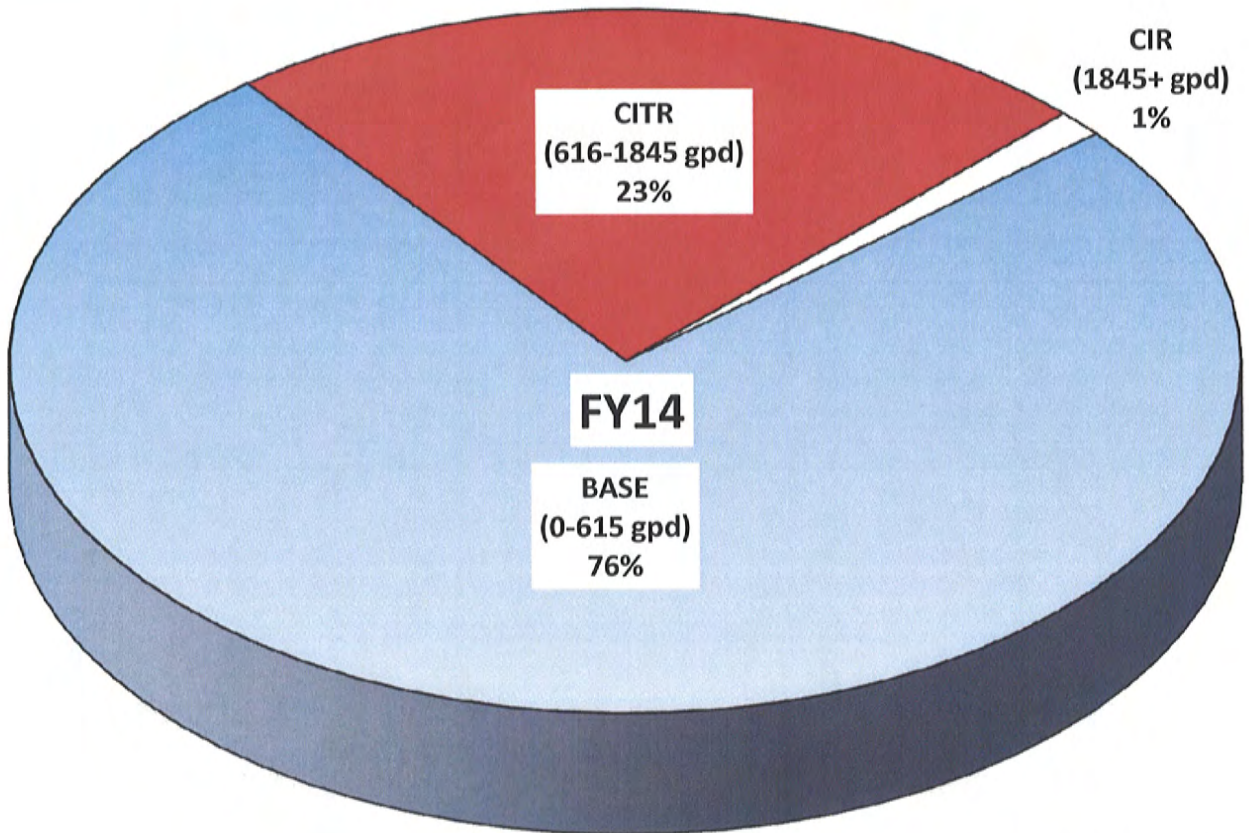
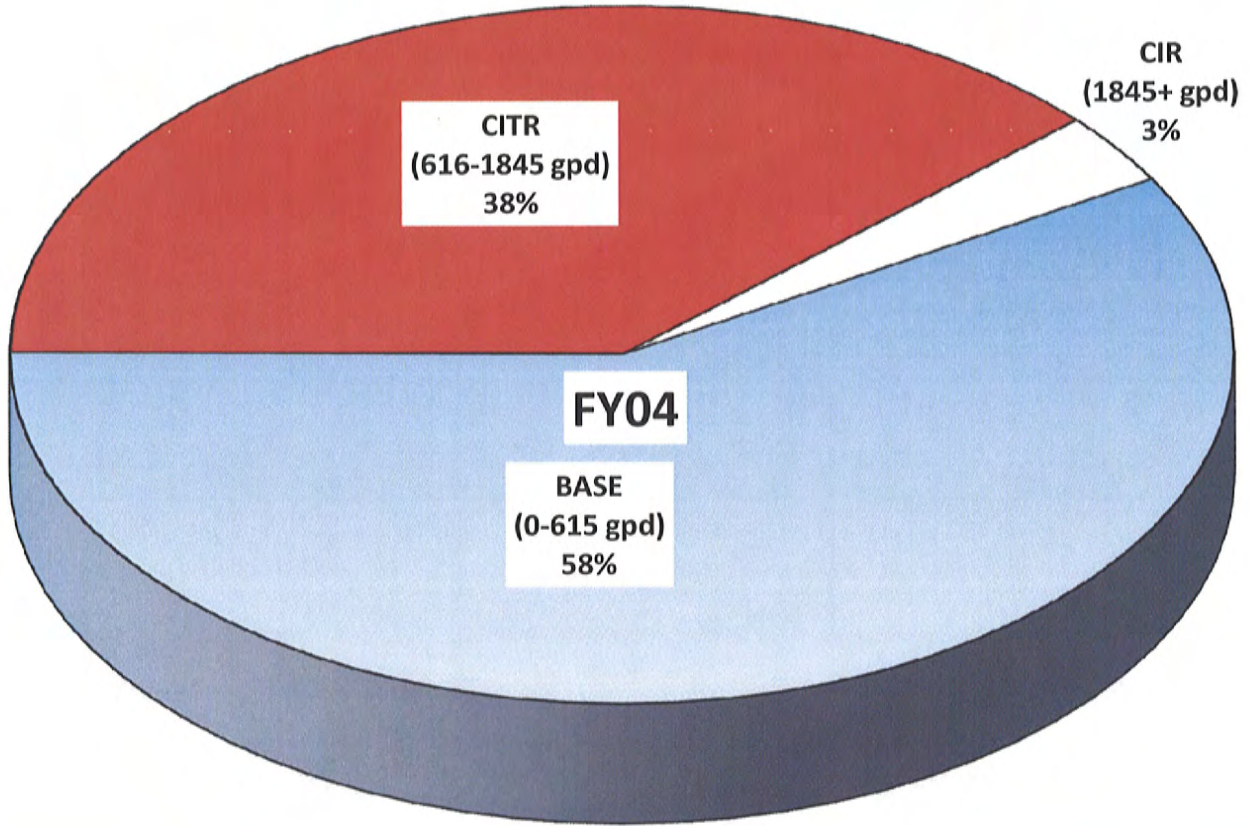


ATTACHMENT E

Novato Residential Use Between 615 and 1,845 Gallons per Day as a Percentage of Total Residential Use




% of Residential Customer Demand by Tier FY04 vs FY14



MEMORANDUM

To: Board of Directors

From: David L. Bentley, Auditor-Controller 
Robert Clark, Operations/Maintenance Superintendent

Subj: STP Solar Power Facility - 2nd Year Status Report
t:\aci\word\stp solar proj\status rpt - 2nd year.docx

September 12, 2014

RECOMMENDED ACTION: None

FINANCIAL IMPACT: Approximately \$17,000 Additional Power Cost

The Stafford Treatment Plant Solar Power Facility commenced operation on August 9, 2012. During FY14, the first full fiscal year of operation, the facility produced 740,000 kWh of electricity, significantly exceeding the 607,000 kWh design capacity. Under the terms of the Power Purchase Agreement, the District paid 17.51¢/kWh produced. Unfortunately, inadequate rainfall limited STP production to 479 MG, or about 63% of budgeted production, which required only 606,000 kWh to produce. Consequently, the District paid for 134,000 kWh of electricity that was unneeded for water production, and therefore sold to PG&E at 4.79¢ kWh, generating a \$17,000 loss¹. As shown on the attached chart, the power cost per MG of water produced, at \$253/MG, was up over 60% from normal.

SPG Solar washed the panels and mowed the grass within the field enclosure once during the year. The system was 99% operational with only 3 days of zero production (a circuit board failed on the inverter) and another 26 days of reduced production due to cloudy skies. For the remaining 11 months, clear skies allowed production to exceed the prior year. In a typical rainfall year we would expect to have four times the number of reduced production days.

The rate per kWh increases 3% annually, to 18.04¢/kWh for FY15. Cost effective operation of the solar facility is premised upon the ability of STP to produce the budgeted 750 MG of water.

¹ 134,000 kWh X (\$0.1751 - \$0.0479) = \$17,045.

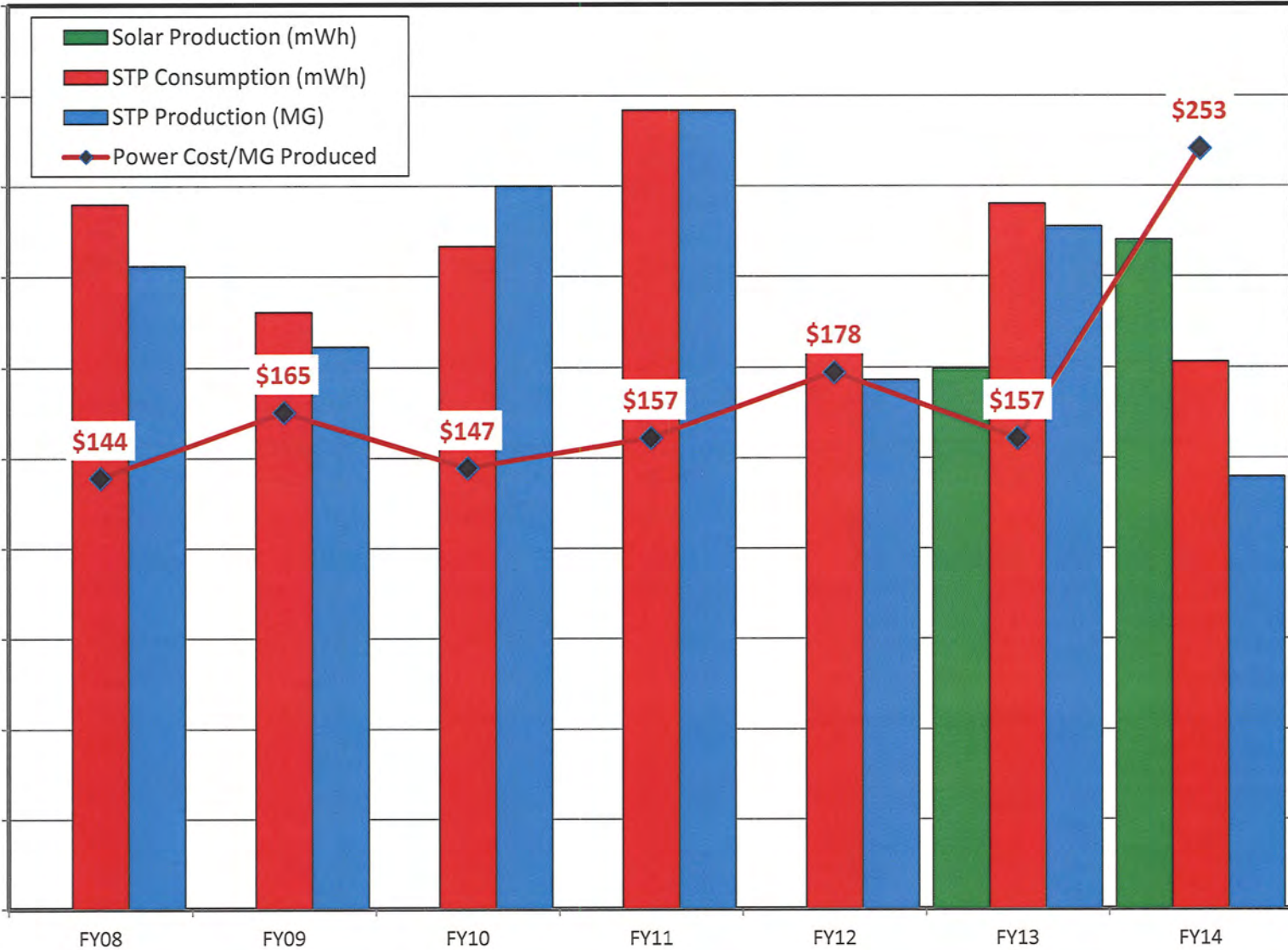
9/5/14

t:\ac\excel\stp\solar proj\[analysis - year 2.xlsx]data

STP Power Consumption, Water Production, & Cost/MG Produced

mWh
& MG
1,000

\$/MG
Produced
\$300





CITY of NAPA

www.cityofnapa.org/water

September 8, 2014

North Marin Water District
P.O. Box 146
Novato, CA 94945

Dear Chris DeGabriele,

The City of Napa thanks you for your help and support as we responded to the South Napa Earthquake. Given the magnitude of the damage to the City's water distribution system, we quickly realized that additional resources were necessary. Fortunately, you were thinking the same thing and were offering help very early in the event. The City reached out to CalWARN and State OES for mutual aid resources, and you answered the call. By noon on Monday, barely 24 hours after the earthquake, our Corporation Yard was overflowing with crews, equipment and materials.

Two of your employees, Luis Ortiz and Adam Breit, volunteered on multiple evenings after their normal shift at North Marin. They worked shoulder to shoulder with City of Napa crews and other mutual aid responders to repair 120 water main leaks by 3:00pm on Friday afternoon. In one week, we fixed more leaks than Napa experiences in a year!

Your employees were professional, dedicated, and worked tirelessly to get as much done as possible each day. They treated our water system and customers as if they were their own. The team spirit and focus on keeping the water safe and available was evident in all crews. Please extend our heartfelt thanks to your crews for all the work they did to help us recover.

Thank you, your agency, your Board/Council and your crews.

Jill Techel, Mayor

Mike Parness, City Manager

Jack LaRochelle, Public Works Director

Phil Brun, Deputy Director of Public Works

Joy Eldredge, Water General Manager

Jeff Folks, Maintenance Manager

Greg Sutter, Water Distribution Superintendent

PUBLIC WORKS DEPARTMENT
WATER DIVISION
1340 Clay Street
Mailing Address:
P.O. Box 660
Napa, California 94559-0660
Phone: (707) 257-9522
Fax: (707) 258-7831
California Relay Service (CRS) Dial 7-1-1

BOB MISC

RECEIVED

SEP 11 2014

North Marin Water District

#1765506

22 Birchwood Dr
Susan Barnes

RECEIVED

SEP 11 2014

North Marin Water District

Sept. 9 2014

North Marin Water District -

Thank you so much for the door hanger you left on Friday last week telling us you thought we had a leak. We had no idea there was a problem, and we certainly don't want to have a leak, especially during a drought. We had a plumber come out Monday afternoon, and he replaced a part in a toilet, so it should be all fixed now. Thank you again for letting us know. Susan Barnes

Local cities outpace statewide average for water savings

BY GUY KOVNER THE PRESS DEMOCRAT on September 10, 2014, 6:55PM09/10/2014

Residents and businesses in about a dozen cities and water districts in the North Bay made deeper cuts in their water use this summer than the average savings achieved by residents statewide, new data released this week show.

The six Sonoma County cities that reported water usage totals to the state — a new requirement amid the historic drought — all said consumption by household and commercial customers was down by 8 percent or more in July compared with the same month last year. The statewide conservation rate in July was 7.5 percent.

Santa Rosa led Sonoma County cities, reporting a cutback of more than 14 percent, while the Valley of the Moon Water District led the county in water savings, reporting a 15.8 percent reduction in water use.

Dan Muelrath, general manager of the Valley of the Moon district, said the agency's 23,000 customers achieved a 19 percent water cutback in August, coming close to Gov. Jerry Brown's call in January to reduce consumption by 20 percent.

"They get the message," Muelrath said, referring to a conservation marketing campaign by the Sonoma-Marín Water Saving Partnership, a collaborative effort by the Sonoma County Water Agency and the nine local water utilities it supplies.

Santa Rosa, with about 51,700 residential and commercial water customers, reduced consumption by 14.2 percent in July, even as the month's average temperature was 68.6 degrees, two degrees warmer than in 2013.

Jennifer Burke, deputy director of water and engineering services, said Wednesday that in August the city recorded a 17.3 percent cutback from a year earlier.

"We're very thankful our community is doing its part," Burke said.

In August, Santa Rosa adopted a mandatory 20 percent water use reduction plan that limits lawn watering to the hours from 8 p.m. to 6 a.m. and prohibits washing of paved surfaces, among other rules.

The city plan includes no fines for excessive water use, but it has deployed six "water cops" to look for violations and ultimately can shut off water service to a noncompliant customer, Burke said.

Cotati, Sebastopol and Cloverdale did not report savings totals to the state because the cities fall below a customer threshold that triggers the requirement.

Ukiah did not submit a report to the state but cut use by 20 percent in July, according to Tim Eriksen, city engineer and public works director.

The figures were based on reports from 362 of the 414 urban water suppliers required to file monthly water use reports for the first time in mid-August. Only 44 agencies reported conservation gains over 20 percent in July, data show.

California's 7.5 percent drop in urban water use in July represented more than 17 billion gallons of water, enough for 1.7 billion people each to take a five-minute shower, the state Water Resources Control Board said in a press release issued this week.

"While this initial report is an improvement, we hope and trust that it is just a start," Felicia Marcus, chairwoman of the state water board, said in a written statement. Californians "know that we still are facing a drought that may be far from over," she said, adding that "wasting precious potable water today imperils our communities' future."

Urban use accounts for 20 percent of California's water consumption, while agriculture consumes nearly 80 percent.

Valley of the Moon, which has also prohibited water-wasting practices such as daytime lawn watering and runoff from any irrigated area, has advised customers that an "efficient home" should use no more than 59 gallons of water per person a day for inside use.

Muelrath, the agency's general manager, said that larger agencies have an easier time approaching the state's 20 percent conservation goal.

Still, savings among those larger districts can differ markedly. The East Bay Municipal Utilities District reported a 12 percent cutback in July, for example, while the San Francisco Public Utilities Commission's mark was 4.2 percent.

As time goes by, it becomes harder to hit the mark, Muelrath said, citing the phenomenon of "demand hardening," which happens when consumers make physical changes, such as installing low-flow plumbing fixtures and getting rid of green lawns, and must then change behavior.

While 20 percent conservation is achievable this year, the same reduction in 2015 would be a "tall order," he said.

You can reach Staff Writer Guy Kovner at 521-5457 or guy.kovner@pressdemocrat.com.

Residents and businesses in about a dozen cities and water districts in the North Bay made deeper cuts in their water use this summer than the average savings achieved by residents statewide, new data released this week show.

The six Sonoma County cities that reported water usage totals to the state — a new requirement amid the historic drought — all said consumption by household and commercial customers was down by 8 percent or more in July compared with the same month last year. The statewide conservation rate in July was 7.5 percent.

Santa Rosa led Sonoma County cities, reporting a cutback of more than 14 percent, while the Valley of the Moon Water District led the county in water savings, reporting a 15.8 percent reduction in water use.

Dan Muelrath, general manager of the Valley of the Moon district, said the agency's 23,000 customers achieved a 19 percent water cutback in August, coming close to Gov. Jerry Brown's call in January to reduce consumption by 20 percent.

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